



LOW VOLTAGE DEVICES

PLUGS & SOCKETS · COMBINATION UNITS

eMOBILITY · CARAVAN & BOAT



In this new catalogue we are pleased to present our wide range of power connectors, built-in sockets and socket combinations.

With our new SCHUKOUltra family of products we have once more succeeded in proving our leadership position when it comes to high-quality connecting devices for professional applications.

We are a traditional, family-owned company drawing on 90 years of experience in developing electrical plugs and sockets and exporting them across the globe.

What is more, with our range of electric vehicle charging stations we set new technological benchmarks as part of the development of the environmentally friendly electromobility.

A handwritten signature in blue ink that reads "Stefan Schlutius". The signature is written in a cursive, slightly slanted style.

Dr. Stefan Schlutius
CEO



PLUGS & SOCKETS

SCHUKO Plugs and Connectors	6
International Plugs and Connectors	19
<hr/>	
Socket Outlets BOWA series	24
<hr/>	
Socket Outlets	32
International Socket Outlets	38
<hr/>	
Industrial Ethernet Plug Connections	44
<hr/>	
Outlet Boxes	46
PERILEX Plug Connections	48
<hr/>	
CEE Plug Connections	50

COMBINATION UNITS

Stationary Socket Outlet Combinations	100
Mobile Socket Outlet Combinations	140

eMOBILITY / CARAVAN & BOAT

eMobility / EVCC	162
<hr/>	
Caravan & Boat	170

APPENDIX

Technical information	176
Sales and Delivery Terms and Conditions	180
Article number directory	185



LOW VOLTAGE DEVICES

PLUGS AND CONNECTORS



SCHUKO Plugs and Connectors

SCHUKO Ultra Plugs and Connectors	10
SCHUKO Ultra Three-Way Connectors	11
SCHUKO Rubber Plugs and Connectors	12
SCHUKO Solid Rubber Plugs and Connectors	12
SCHUKO Three-Way Solid Rubber Connector	14
SCHUKO Plugs and Connectors PVC	15
SCHUKO Plugs and Connectors Thermoplastic	16
SCHUKO Socket Outlets	17
Pressurised-water-impermeable SCHUKO Plug Connections	18

International Plugs and Connectors

Rubber Connectors (Belgian / French earth)	19
Three-Way Solid Rubber Connector (Belgian / French earth)	20
PVC Connector (Belgian / French earth)	20
Plug Connections Swiss System	21
Adapter	23

THE 9 KEY ADVANTAGES OF OUR SCHUKO^{ultra} PLUGS AND CONNECTORS



In 1925 Albert Büttner, ABL's founder, received the patent for the implementation of the SCHUKO system. Today, it is one of the safest and most common plug systems in the world. The „Connect“ sector now includes almost all plug connections worldwide.

1 2-COMPONENT TECHNOLOGY

Hard Plastic component for impact resistance
Soft Plastic Component ensures a safe grip



2 UP TO 4 TONS

Unequaled strength



3 LID LOCKS INTO PLACE

Stecker und Kupplung zuverlässig verbunden



4 SELF-CLOSING LID



5 QUICK-RELEASE FASTENER

Easy locking and unlocking



6 VOLTAGE INDICATOR



7 CABLE CLAMP

provides a tight seal and additional strain relief



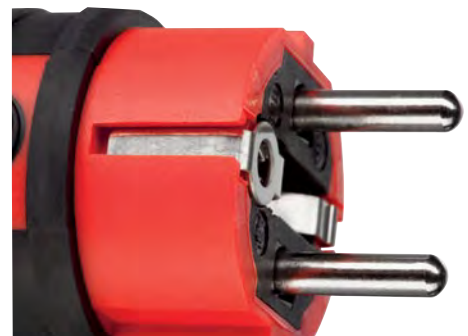
8 SOLID FRICTION CONTACT

Long-lasting



9 ONE PLUG – TWO EARTHING SYSTEMS

SCHUKO and French / Belgian standards



SCHUKOultra PLUGS AND CONNECTORS 2C-TECHNOLOGY

NEW

2-pole + ⊕, 16 A 250 V, DIN 49440/441 and IEC 60884 compliant, for wires of up to 3 x 2,5 mm²



PLUG

with Twin Earthing System
(German and French/Belgian standards)
splash-proof (IP54)

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

red/ black	1121540	97	20
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CONNECTOR

with voltage indicator ⊗
and self-closing lid
splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

red/ black	1181540	145	10
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CONNECTOR

with self-closing lid
splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

red/ black	1181640	145	10
---------------	----------------	-----	----



PLUG

with Twin Earthing System
(German and French/Belgian standards)
splash-proof (IP54)

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey/ black	1121560	97	20
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CONNECTOR

with voltage indicator ⊗
and self-closing lid
splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey/ black	1181560	145	10
----------------	----------------	-----	----



CONNECTOR

with self-closing lid
splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey/ black	1181660	145	10
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SCHUKOultra PLUGS AND CONNECTORS 2C-TECHNOLOGY

NEW

2-pole + ⊕, 16 A 250 V, DIN 49440/441 and IEC 60884 compliant, for wires of up to 3 x 2,5 mm²



PLUG

with Twin Earthing System (German and French/Belgian standards) splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black/black	1121500	97	20
-------------	---------	----	----



CONNECTOR

with voltage indicator ⊗ and self-closing lid splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black/black	1181500	145	10
-------------	---------	-----	----



CONNECTOR

with self-closing lid splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black/black	1181600	145	10
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SCHUKOultra THREE-WAY SOLID RUBBER CONNECTORS

2-pole + ⊕, 16 A 250 V, DIN 49440/441 and IEC 60884 compliant, for wires of up to 3 x 2,5 mm²



THREE-WAY SOLID RUBBER CONNECTOR

with voltage indicator ⊗ and self-closing lid splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

red/black	1173543	426	5
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THREE-WAY SOLID RUBBER CONNECTOR

with voltage indicator ⊗ and self-closing lid splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black/black	1173503	426	5
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THREE-WAY SOLID RUBBER CONNECTOR

with voltage indicator ⊗ and self-closing lid splash-proof IP54

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey/black	1173563	426	5
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SCHUKO RUBBER PLUGS AND CONNECTORS



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884, for connection of cables up to 3 x 1.5 mm²



RUBBER PLUG

with twin earthing system
(German and French /
Belgian standards)
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1419190	64	20
orange	1419170	64	20
red	1419140	64	20



RUBBER CONNECTOR

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1479090	117	10
orange	1479070	117	10
red	1479040	117	10

SCHUKO SOLID RUBBER PLUGS AND CONNECTORS



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884, for connection of cables up to 3 x 1.5 mm²



SOLID RUBBER PLUG

splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1429190	72	20
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SOLID RUBBER CONNECTOR

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1489090	125	10
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SOLID RUBBER PLUG

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1439190	105	20
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SCHUKO RUBBER PLUGS AND CONNECTORS



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884, for connection of cables up to 3 x 2.5 mm²



RUBBER PLUG

with twin earthing system
(German and French /
Belgian standards)
splash-proof IP44 ⚡

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1149190	86	20

black	1149190	86	20
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RUBBER CONNECTOR

(can also be retrofitted with
hinged lid article no. 8987296)

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1199090	104	10

black	1199090	104	10
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RUBBER CONNECTOR

with collar/cover
splash-proof IP44 ⚡

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1199290	137	10

black	1199290	137	10
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SCHUKO SOLID RUBBER PLUGS AND CONNECTORS



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884, for connection of cables up to 3 x 2.5 mm²



SOLID RUBBER PLUG

with twin earthing system
(German and French /
Belgian standards)
splash-proof IP44 ⚡

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1149290	99	20

black	1149290	99	20
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SOLID RUBBER CONNECTOR

(can also be retrofitted with
hinged lid article no. 8987296)

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1169090	119	10

black	1169090	119	10
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SOLID RUBBER CONNECTOR

with collar / cover
splash-proof IP44 ⚡

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	1169290	175	10

black	1169290	175	10
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SCHUKO SOLID RUBBER PLUGS AND CONNECTORS



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884, for connection of cables up to 3 x 2.5 mm²



SOLID RUBBER PLUG WITH METAL QUICK RELEASE

with Twin Earthing System (German and French / Belgian standards) splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1129190	106	20
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SOLID RUBBER CONNECTOR WITH QUICK RELEASE FASTENER

(can be retrofitted with hinged lid Art.-No. 8987296)

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1189090	137	10
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Hinged lid
8987296

COLLAR WITH COVER OR HINGED LID

Can be retrofitted for simple connectors 2.5 mm², black splash-proof IP44 for Art.-No. 1199090, 1169090 and 1189090

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	8975609	25	1
black	8987296	25	1



Collar with cover
8975609



SOLID RUBBER CONNECTOR WITH QUICK RELEASE FASTENER

with collar/cover splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1189290	175	10
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SCHUKO THREE-WAY SOLID RUBBER CONNECTOR



2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441, for connection of cables up to 3 x 2.5 mm²



THREE-WAY SOLID RUBBER CONNECTOR

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1473190	368	5
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SCHUKO PLUGS AND CONNECTORS PVC

2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884



PLUG
PVC
with Twin Earthing System
(German and French /
Belgian standards)

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey	1418060	40	20
white	1418080	40	20
yellow	1418050	40	20
black	1418000	40	20



CONNECTOR
PVC
also available with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey	1679060	83	10
white	1679080	83	10
yellow	1679050	83	10
black	1679000	83	10



PLUG
PVC
with Twin Earthing System
(German and French /
Belgian standards)
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey	1428160	56	20
white	1428180	56	20
yellow	1428150	56	20



CONNECTOR
PVC

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

grey	1478060	92	10
white	1478080	92	10
yellow	1478050	92	10

SCHUKO PLUGS AND CONNECTORS THERMOPLASTIC

2-pole + ⊕, 16 A 250 V, acc. to DIN 49440/441 and IEC 60884



PLUG

Thermoplastic

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1116100	27	50
white	1116110	27	50



ANGLE PLUG

Thermoplastic with Twin Earthing System (German and French / Belgian standards)

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1400390	35	20
white	1400380	35	20



ANGLE PLUG

Thermoplastic

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1107100	34	50
white	1107110	34	50



CONNECTOR

Thermoplastic

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1176100	31	20
white	1176110	31	20



ADAPTER

Thermoplastic fibre glass reinforced contact support. Plug side with Twin Earthing System (German and French / Belgian standards)

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1115000	76	100
white	1115010	76	100



PLUG WITH AUX. CONTACT

Thermoplastic fibre glass reinforced contact support. Plug side with Twin Earthing System (German and French / Belgian standards) Socket with French / Belgian Earthing System

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1115007	74	10
white	1115017	74	10

SCHUKO SOCKET OUTLETS

2-pole + ⊕, 16 A 250 V, acc. to DIN 49440 and IEC 60884



SURFACE-MOUNTED SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1491010	79	10

white	1491010	79	10
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SURFACE-MOUNTED DOUBLE SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1492010	128	10

white	1492010	128	10
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SURFACE-MOUNTED TRIPLE SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1493010	197	5

white	1493010	197	5
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BASE PLATE

flame-retardant for 1491010

flame-retardant for 1492010

flame-retardant for 1493010

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1491008	8	50
white	1492008	13	50
white	1493008	18	50

white	1491008	8	50
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white	1492008	13	50
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white	1493008	18	50
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SURFACE-MOUNTED QUADRUPLE SOCKET OUTLET

without base plate

base plate see art. no. 0004060

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1694010	214	5

white	1694010	214	5
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BOTTOM PLATE

for 1804 and 1694

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	0004060	32	10

white	0004060	32	10
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RUBBER CONNECTORS (BELGIAN / FRENCH EARTH)*

complies with Belgian (NBN C61-112) and French (NF C61-314) standards



RUBBER CONNECTOR

3 x 1.5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1479091	117	10

black	1479091	117	10
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RUBBER CONNECTOR

3 x 1.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1479291	166	10

black	1479291	166	10
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RUBBER CONNECTOR WITH CHILD PROTECTION

3 x 1.5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1479092	117	10

black	1479092	117	10
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RUBBER CONNECTOR WITH CHILD PROTECTION

3 x 1.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1479292	166	10

black	1479292	166	10
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RUBBER CONNECTOR WITH CHILD PROTECTION

3 x 2.5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1199392	122	10

black	1199392	122	10
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RUBBER CONNECTOR WITH CHILD PROTECTION

3 x 2.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1199592	170	10

black	1199592	170	10
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COLLAR WITH COVER

for article with Belgian / French earth for upgrading for simple connectors splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	8975629	25	1

black	8975629	25	1
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* RUBBER PLUGS PLEASE CONSULT PAGE 12-13

THREE-WAY SOLID RUBBER CONNECTOR (BELGIAN / FRENCH EARTH)

complies with Belgian (NBN C61-112) and French (NF C61-314) standards



THREE-WAY SOLID RUBBER CONNECTOR

3 x 2.5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1473092	368	5

black	1473092	368	5
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THREE-WAY SOLID RUBBER CONNECTOR

3 x 2.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1473292	486	5

black	1473292	486	5
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THREE-WAY SOLID RUBBER CONNECTOR WITH HIGHER PROTECTION COVER

3 x 2.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1473592	489	5

black	1473592	489	5
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THREE-WAY SOLID RUBBER CONNECTOR WITH SELF-CLOSING HINGED COVER AND HIGHER PROTECTION COVER

3 x 2.5 mm²
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1473597	486	5

black	1473597	486	5
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PVC CONNECTOR (BELGIAN / FRENCH EARTH)*

complies with Belgian (NBN C61-112) and French (NF C61-314) standards



CONNECTOR WITH SHUTTER

3 x 1.5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
grey	1679062	83	10
white	1679082	83	10
black	1679002	83	10

grey	1679062	83	10
white	1679082	83	10
black	1679002	83	10

* PVC PLUGS PLEASE CONSULT PAGE 15

PLUG CONNECTIONS SWISS SYSTEM

acc. to SEV type 12, 13, 15, 23, 25



PLUG 10 A

acc. to SEV 6534 type 12
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

light blue	SEV12S	79	20
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KUPPLUNG 10 A

with collar and cover
acc. to SEV 6535 type 13
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

light blue	SEV13K2	132	10
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PLUG 16 A

acc. to SEV 5934 type 23
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

dark blue	SEV23S	80	20
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CONNECTOR 16 A

with collar and cover
acc. to SEV 5934 type 23
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

dark blue	SEV23K2	132	10
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PLUG 10 A

acc. to SEV 6532 type 15
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

orange	SEV15S	95	20
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CONNECTOR 10 A

with collar and cover
acc. to SEV 6532 type 15
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

orange	SEV15K2	135	10
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PLUG 16 A

acc. to SEV 5932 type 25
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

red	SEV25S	98	20
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CONNECTOR 16 A

with collar and cover
acc. to SEV 5932 type 25
splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
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red	SEV25K2	138	10
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ADAPTER

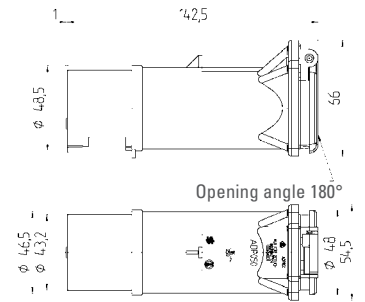


ADAPTER

CEE plug 3-pole, 16 A, 230 V,
6h blue on
SCHUKO socket 1461050
splash-proof IP44

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
ADP050	165	5

ADP050	165	5
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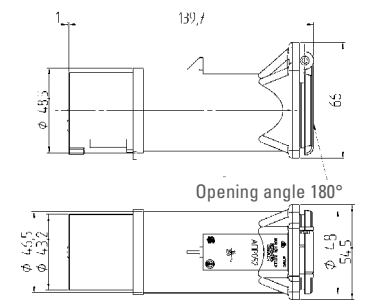


ADAPTER

CEE plug 3-pole, 16 A, 230 V,
6h blue on
socket outlet 1462052
with earthing system acc.
French / Belgian standards
with shutter
(child protection)
splash-proof IP44

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
ADP052	165	5

ADP052	165	5
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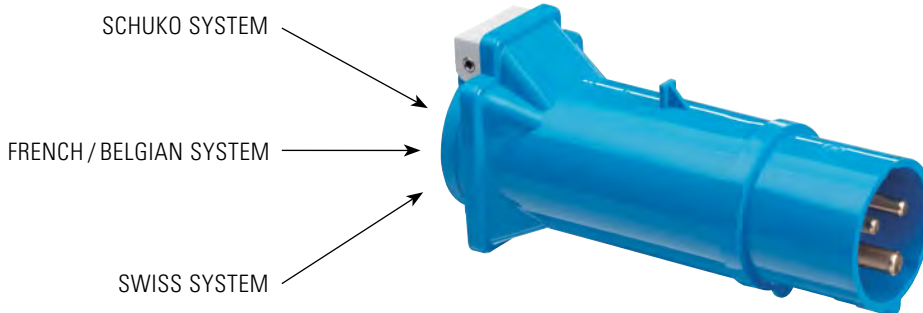
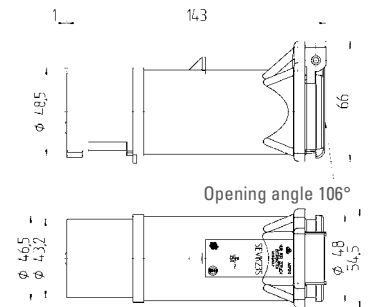


ADAPTER

CEE plug 3-pole, 16 A, 230 V,
6h blue on
socket outlet 1461965
acc. to SEV 5934 - type 23 / 16A
splash-proof IP44

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
SEVK23S	165	5

SEVK23S	165	5
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Country-specific adapters with 3-pole CEE plug. Other country-specific variations available on request!



LOW VOLTAGE DEVICES

SOCKET OUTLETS BOWA SERIES

Socket outlets BOWA series

Cover BOWA.94 METAL	26
Cover BOWA.94 RAL	26
Base for BOWA.94	27
Cover BOWA.112 METAL	28
Cover BOWA.112 RAL	28
Base for BOWA.112	29
Die-Cast Aluminium Built-In Socket Outlets	30

BOWA.94 METAL

Cover 94 x 94 mm



COVER WITH HINGED LID STAINLESS STEEL, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471ESM	315	1

1471ESM	315	1
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COVER WITH HINGED LID PLATINUM, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471PLM	315	1

1471PLM	315	1
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COVER WITH HINGED LID BRASS, MATT

drip-proof IP41 · Brass develops a natural patina. We recommend acrylic-based sealants.

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471MSM	315	1

1471MSM	315	1
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COVER WITH HINGED LID GOLD, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471AUM	315	1

1471AUM	315	1
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BOWA.94 RAL

Cover 94 x 94 mm

NEW



COVER WITH HINGED LID IN ALL RAL COLOURS

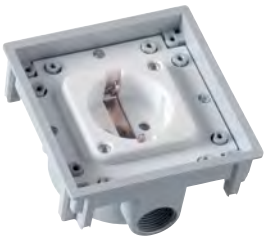
printed
drip-proof IP41

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
BWKXXXX	315	1

BWKXXXX	315	1
XXXX = RAL colour number		

BOWA.94

Base 94 x 94 mm



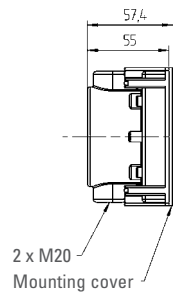
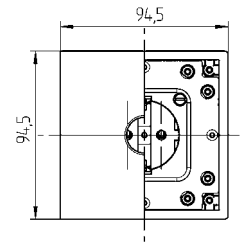
BASE SCHUKO



made of thermoplastic
with SCHUKO socket outlet
with two M20

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471601	125	1

1471601	125	1
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BOWA.94 BUILT-IN SOCKET OUTLET WITH FRENCH / BELGIAN EARTHING SYSTEM

complies with Belgian (NBN C61-112) and French (NF C61-314) standards

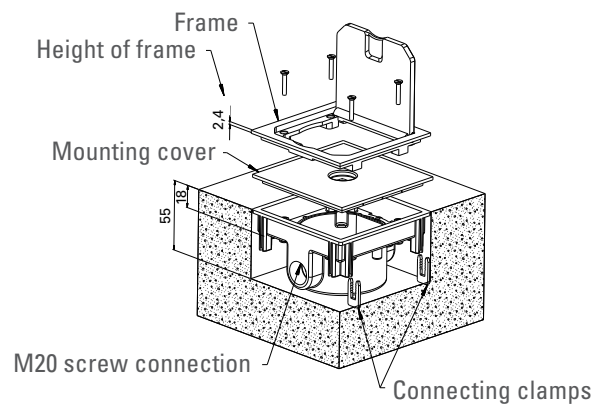
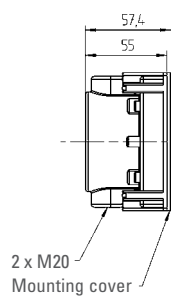
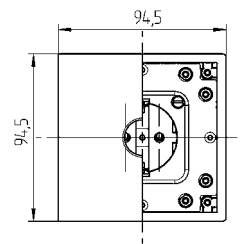


BASE

made of thermoplastic
with French/Belgian Earthing
System **and with shutter**
with two M20

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1471602	125	1

1471602	125	1
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BOWA.112 METAL

Cover 112 x 112 mm



COVER WITH HINGED LID STAINLESS STEEL, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
1632ESM	498	1

1632ESM	498	1
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COVER WITH HINGED LID PLATINUM, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
1632PLM	498	1

1632PLM	498	1
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COVER WITH HINGED LID BRASS, MATT

Brass develops a natural patina.
We recommend acrylic-based
sealants.

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
1632MSM	498	1

1632MSM	498	1
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COVER WITH HINGED LID GOLD, MATT

drip-proof IP41

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
1632AUM	498	1

1632AUM	498	1
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BOWA.112 RAL

Cover 112 x 112 mm

NEW



COVER WITH HINGED LID IN ALL RAL COLOURS

painted
drip-proof IP41

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
BWGXXX	498	1

BWGXXX	498	1
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XXXX = RAL colour number

BOWA.112

Base 112 x 112 mm



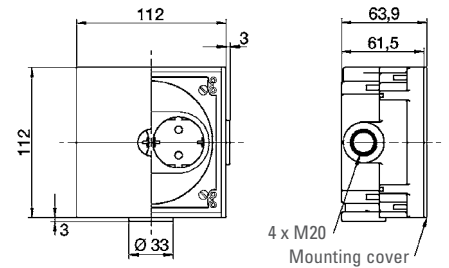
BASE SCHUKO



made of thermoplastic
with double SCHUKO socket outlet
with four M20

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1632602	281	1

1632602	281	1
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4 x M20
Mounting cover



HOUSING BASE

made of thermoplastic
with four M20

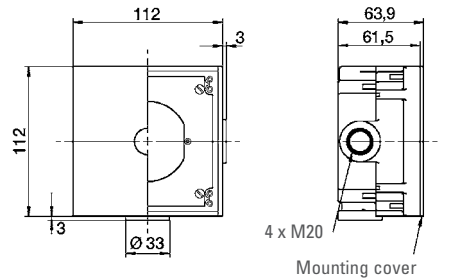
ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
1632500	187	1

1632500	187	1
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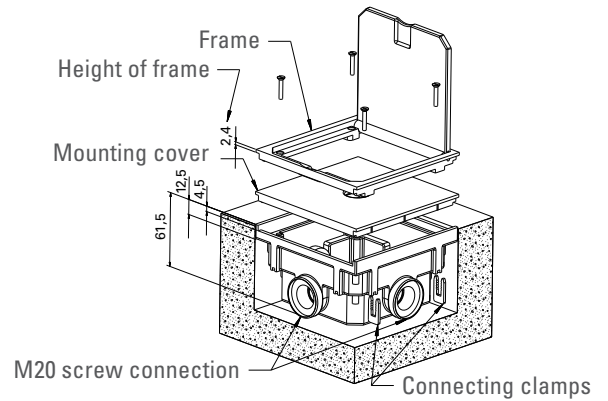
All standard socket outlets with an 80 mm cover and support ring fastening available for installation engineering, communication and telecommunications can be mounted into the 1632500 enclosure.

A mounting cover for height adjustment is supplied to aid in the installation of BOWA.94 and BOWA.112.

Thanks to connecting clips, BOWA.94 and BOWA.112 can be easily mounted side by side.



4 x M20
Mounting cover



Connecting clamps

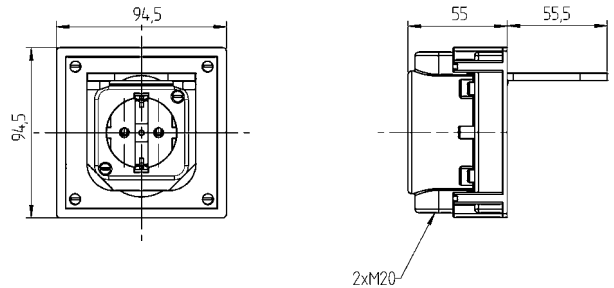
SOCKET OUTLETS

Aluminium die-cast



SCHUKO SOCKET OUTLET

drip-proof IP41
Cover with hinged lid from aluminium die-cast
Base made of thermoplastic with two M20
· with shutter (1471461)
· without shutter (1471461)



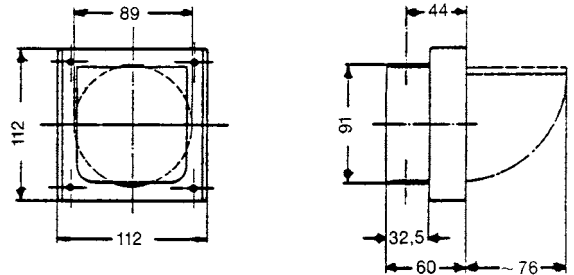
COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
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grey	1471460	301	1
grey	1471461	301	1



SCHUKO DOUBLE SOCKET OUTLET

drip-proof IP41
Cover with hinged lid and base
Cover made from aluminium die-cast with two M20



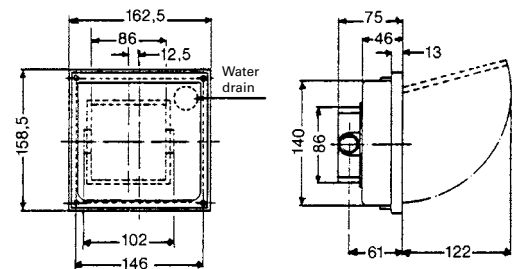
COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
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grey	1632490	575	1
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SCHUKO SOCKET OUTLET

Socket outlet component watertight to IP66
Cover with hinged lid from aluminium die-cast
Base made of Thermoplastic with two M20



COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
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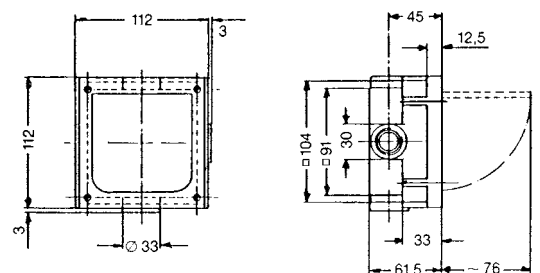
grey	1471360	740	1
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If unit is floor mounted, the knockout in the base should be used as an outflow in the event of water seeping in.



HOUSING

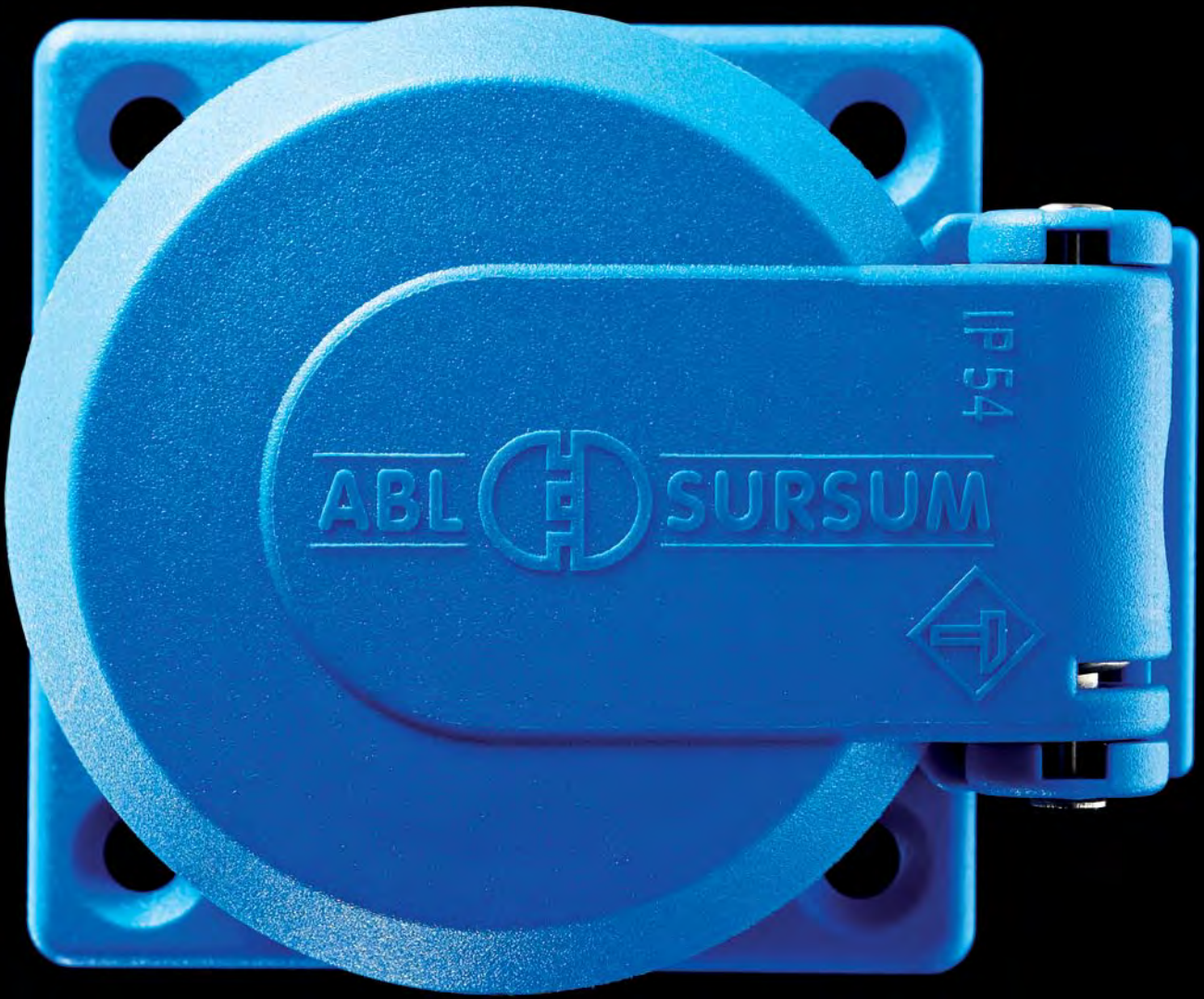
drip-proof IP41
Cover with hinged lid from aluminium die-cast
Base made of thermoplastic with four M20



COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
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grey	1632497	375	1
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ABL SURSUM

IP54



LOW VOLTAGE DEVICES

SOCKET OUTLETS

Socket outlets

SCHUKOplus – Socket Outlets IP54 for Mobile Power Supply in Germany	34
SCHUKO Socket Outlets IP54 for general use	35
SCHUKO Socket Outlets for general use	36

International socket outlets

Socket Outlets with French / Belgian Earthing System	38
Socket Outlets IP54 with French / Belgian Earthing System	39
Socket Outlets IP54 Switzerland	40
Socket Outlets IP66 Australia and China	41
Socket Outlets USA and British Standard	42
Socket Outlets Czech Standard	42
Accessories	43

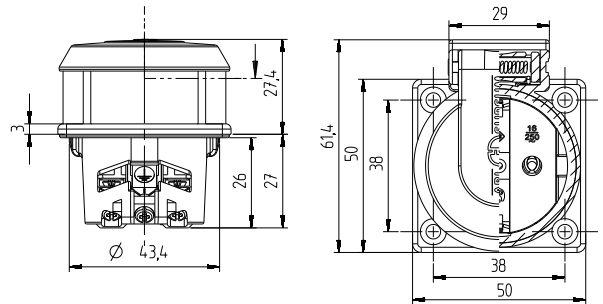


SOCKET OUTLET

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

blue	1561050	53	100
black	1561000	53	100
red	1561040	53	100
yellow	1561030	53	100
grey	1561060	53	100



SOCKET OUTLET

Thermoplastic
Flange mounting IP54
with shutter

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

blue	1562050	55	20
black	1562000	53	100
red	1562040	53	100
yellow	1562030	53	100
grey	1562060	53	100



STRAIN RELIEF SET

for input leads
Suitable for all socket outlets
156 + 166 ...

ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
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1561 ZES	2	1
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SCHUKO SOCKET OUTLETS

2-pole + ⊕, 16 A 250 V, acc. to DIN 49440 and IEC 60884, with screw terminals

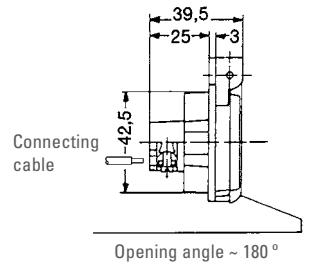
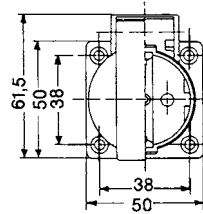


SOCKET OUTLET

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1461000	38	100
red	1461040	38	100
blue	1461050	38	100
grey	1461060	38	100

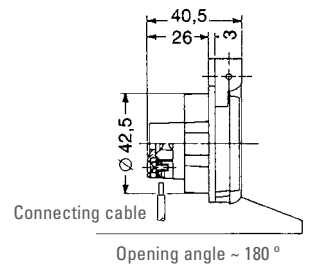
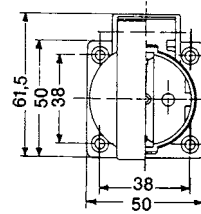


SOCKET OUTLET

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1461100	38	100
red	1461140	38	100
blue	1461150	38	100
grey	1461160	38	100

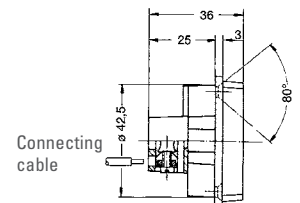
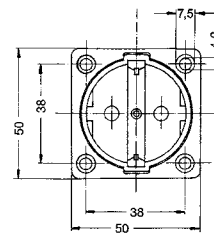


SOCKET OUTLET

Thermoplastic
Flange mounting

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1461300	29	100
blue	1461350	29	100
grey	1461360	29	100

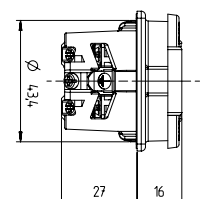
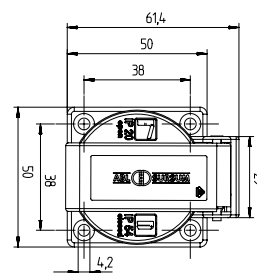


SOCKET OUTLET

Thermoplastic
Flange Mounting IP54
with shutter

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
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blue	1662050	53	100
black	1662000	53	100
red	1662040	53	100
yellow	1662030	53	100
grey	1662060	53	100



SCHUKO SOCKET OUTLETS

2-pole + ⊕, 16 A 250 V, acc. to DIN 49440 and IEC 60884

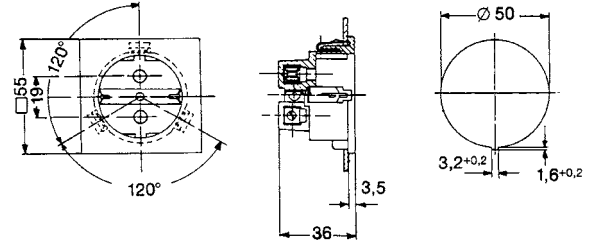


SOCKET OUTLET

Thermoplastic
Quick mounting with steel springs

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1111000	35	100
white	1111010	35	100

black	1111000	35	100
white	1111010	35	100



For material widths of 1 - 3.5 mm

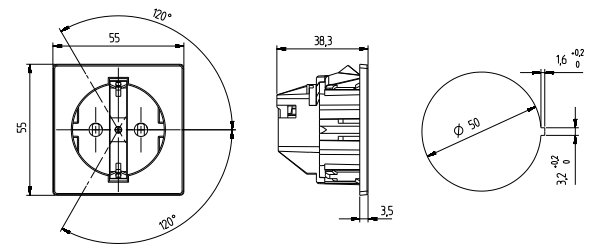


SOCKET OUTLET

Thermoplastic
Quick mounting with
steel springs
with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1111610	35	100

white	1111610	35	100
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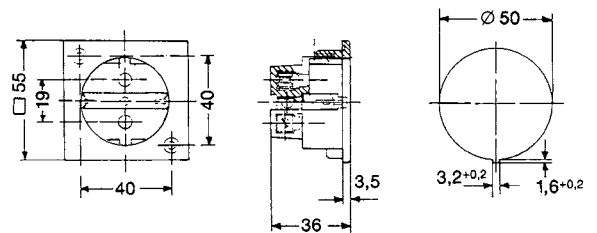


SOCKET OUTLET

Thermoplastic
Flange mounting

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1111400	33	100
white	1111410	33	100

black	1111400	33	100
white	1111410	33	100

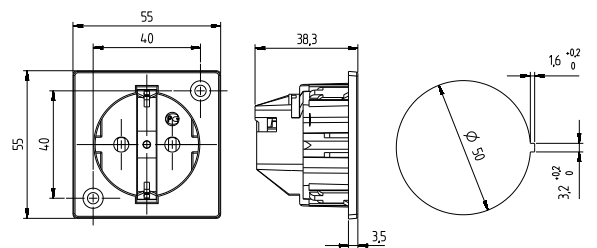


SOCKET OUTLET

Thermoplastic
Flange mounting
with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1111510	33	100

white	1111510	33	100
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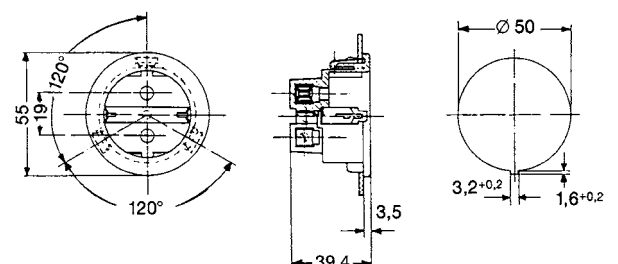


SOCKET OUTLET

Thermoplastic
Quick mounting with steel springs

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1101000	31	100
white	1101010	31	100

black	1101000	31	100
white	1101010	31	100



For material widths of 1 - 3.5 mm

SCHUKO SOCKET OUTLETS

2-pole + \oplus , 16 A 250 V, acc. to DIN 49440 and IEC 60884

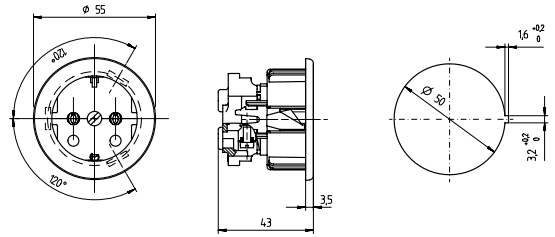


SOCKET OUTLET

Thermoplastic
Quick mounting with steel springs
with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	1101200	33	100
white	1101210	33	100

black	1101200	33	100
white	1101210	33	100



For material widths of 1 - 3.5 mm

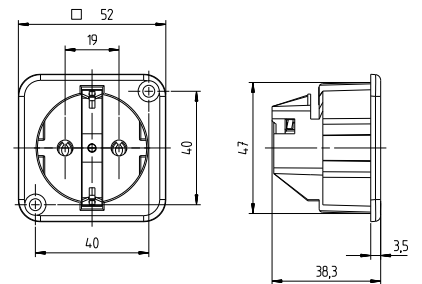


SOCKET OUTLET

Thermoplastic
Flange mounting
suitable for installation in BOWA.94

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1111810	32	100

white	1111810	32	100
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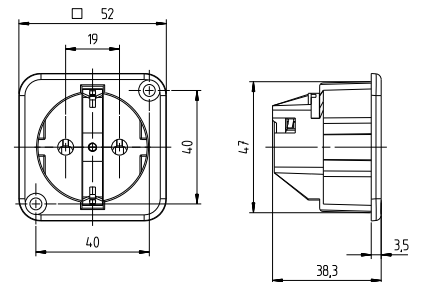


SOCKET OUTLET

Thermoplastic
Flange mounting
suitable for installation in BOWA.94
with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1111710	33	100

white	1111710	33	100
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INTERNATIONAL SOCKET OUTLETS (BELGIAN / FRENCH EARTH)

complies with Belgian (NBN C61-112) and French (NF C61-314) standards

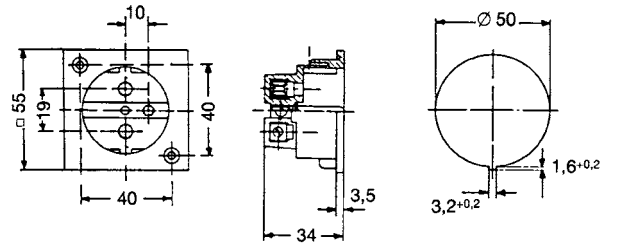


SOCKET OUTLET

Thermoplastic
Flange mounting

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black		33	100
white	1111412	33	100

black		33	100
white	1111412	33	100

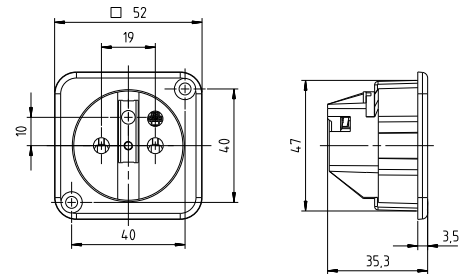


SOCKET OUTLET

Thermoplastic
Flange mounting
suitable for installation in BOWA.94
with shutter

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	1111712	33	100

white	1111712	33	100
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INTERNATIONAL SOCKET OUTLETS (BELGIAN / FRENCH EARTH)

complies with Belgian (NBN C61-112) and French (NF C61-314) standards

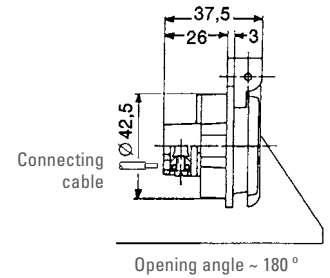
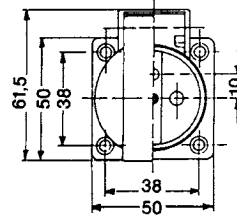


SOCKET OUTLET

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
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black	1461002	37	100
blue	1461052	37	100
grey	1461062	37	100

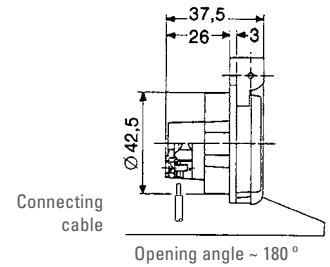
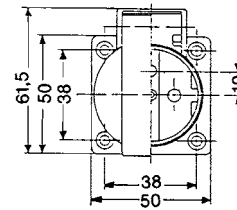


SOCKET OUTLET

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
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black	1461102	37	100
blue	1461152	37	100
grey	1461162	37	100

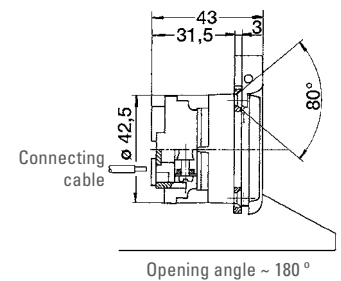
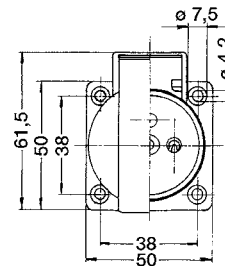


SOCKET OUTLET

Thermoset socket · Flange mounting
IP54
with shutter

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

black	1462002	45	100
blue	1462052	45	100

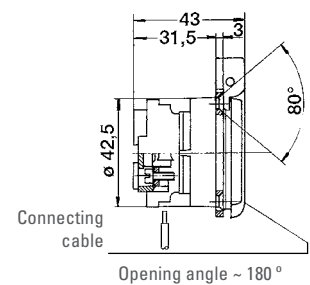
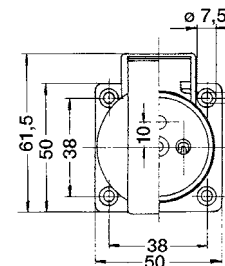


SOCKET OUTLET

Thermoset socket · Flange mounting
IP54
with shutter

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
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black	1462102	45	100
blue	1462152	45	100
grey	1462162	45	100



INTERNATIONAL SOCKET OUTLETS

Swiss system

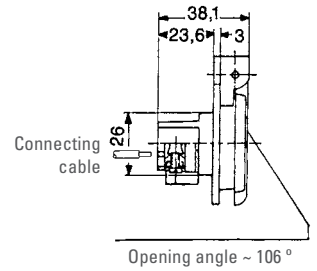
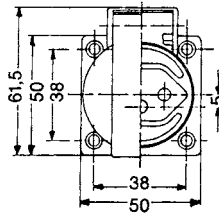


SOCKET OUTLET 250 V / 10 A

Thermoplastic
Flange mounting IP54 \diamond
Swiss system
acc. to SEV 6535 type 13

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
blue	1461005	37	200
black	1461006	37	200
grey	1461066	37	200

blue	1461005	37	200
black	1461006	37	200
grey	1461066	37	200

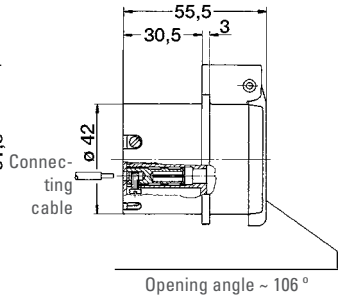
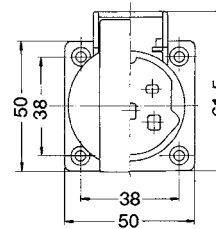


SOCKET OUTLET 400 V / 10 A

Thermoplastic
Flange mounting IP54 \diamond
Swiss system
acc. to SEV 6532 type 15

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
grey	SEV-100	57	100

grey	SEV-100	57	100
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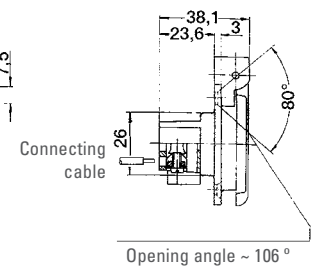
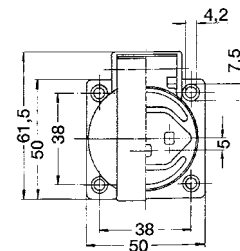


SOCKET OUTLET 250 V / 16 A

Thermoplastic
Flange mounting IP54 \diamond
Swiss system
acc. to SEV 5934 type 23
with seal in hinged lid

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
grey/ blue	1461965	40	200

grey/ blue	1461965	40	200
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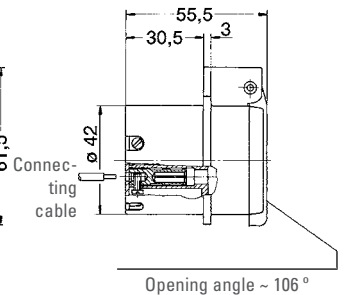
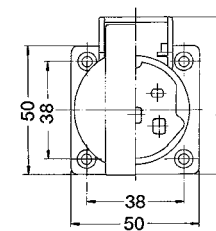


SOCKET OUTLET 400 V / 16 A

Thermoplastic
Flange mounting IP54 \diamond
Swiss system
acc. to SEV 5932 type 25
with seal in hinged lid

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
grey/ red	SEV1148	65	100

grey/ red	SEV1148	65	100
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INTERNATIONAL SOCKET OUTLETS

for Australia and China · acc. to Australian Standard AS / NZS 3112

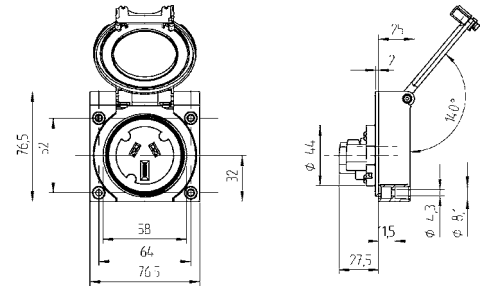


PANEL-MOUNTED SOCKET OUTLET 3-POLE / 250V

Colour green
water jet protected IP66

AMPERE	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
10 A	310D062	119	10
15 A	315D062	119	10

10 A	310D062	119	10
15 A	315D062	119	10

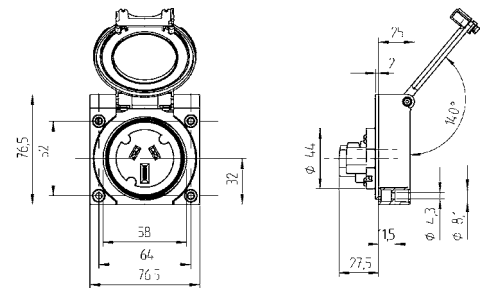


PANEL-MOUNTED SOCKET OUTLET 3-POLE / 250V

Colour grey
water jet protected IP66

AMPERE	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
10 A	310D066	119	10
15 A	315D066	119	10
20 A	320D066	119	10

10 A	310D066	119	10
15 A	315D066	119	10
20 A	320D066	119	10



INTERNATIONAL SOCKET OUTLETS

acc. to Australian Standard AS / NZS 3123

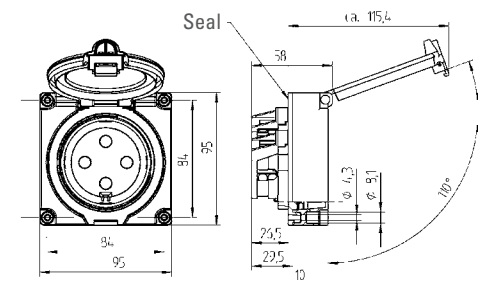


PANEL-MOUNTED SOCKET OUTLET 4-POLE / 500V

Colour grey
water jet protected IP66

AMPERE	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
32 A	432D060	183	10
40 A	440D060	183	10
50 A	450D060	183	10

32 A	432D060	183	10
40 A	440D060	183	10
50 A	450D060	183	10

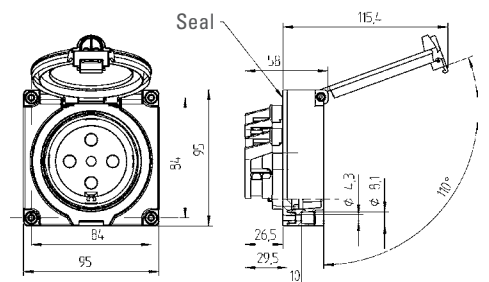


PANEL-MOUNTED SOCKET OUTLET 5-POLE / 500V

Colour grey
water jet protected IP66

AMPERE	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
32 A	532D060	193	10
50 A	550D060	193	10

32 A	532D060	193	10
50 A	550D060	193	10



INTERNATIONAL SOCKET OUTLETS

USA and British Standard

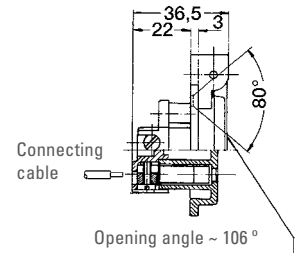
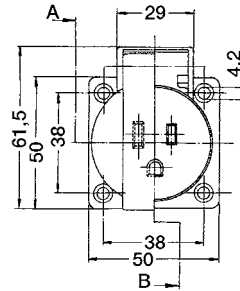


SOCKET OUTLET 125 V / 15 A 1-POL. + N + Ⓧ

Thermoplastic
USA: acc. to UL 498/NEMA 5-15 R
Canada: acc. to CSA C22.2 Nr.:42

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	UL12500	45	100
blue	UL12505	45	100
grey	UL12506	45	100

black	UL12500	45	100
blue	UL12505	45	100
grey	UL12506	45	100

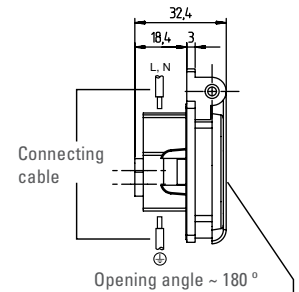
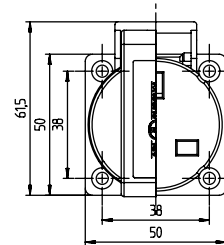


SOCKET OUTLET 250V / 13 A ACC. TO BRITISH STANDARD 1363

Thermoplastic
Flange mounting IP54

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
black	BS13630	38	100

black	BS13630	38	100
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INTERNATIONAL SOCKET OUTLETS

Czech Standard

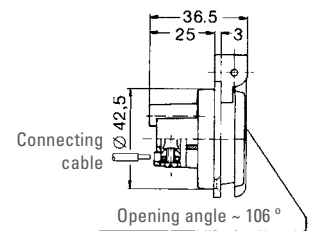
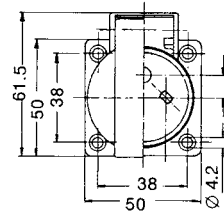


SOCKET OUTLET 48 V / 10 A

Thermoplastic · Flange mounting IP54
Czech Republic · acc. to CSN standard 354517 2-pole 10 A, 48 V

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
violett	CZ24-48	29	100

violett	CZ24-48	29	100
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ACCESSORIES

Socket outlets

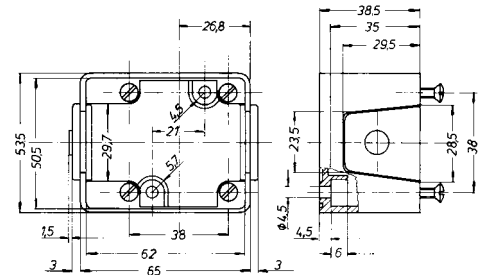


SURFACE-MOUNTED HOUSING

for socket outlet 1461, 1662
UL125 and BS1360
with side-mounted terminals
Thermoplastic

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
--------	-------------	---------------	------------

black	1461007	49	10
blue	1461057	49	10
grey	1461067	49	10



MOUNTING PLATE

for surface-mounted housing
for snapping onto DIN rail
acc. to DIN EN 60715 35 mm

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
-------------	---------------	------------

1461SB	14	1
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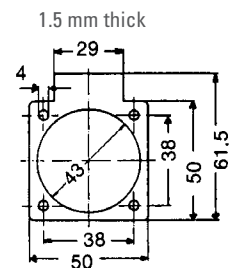


RUBBER SEAL

for socket outlet
1461, 1462,
CZ, SEV, UL und BS

COLOUR	ARTICLE NO.	WEIGHT G/EACH
--------	-------------	---------------

black	8632316	3
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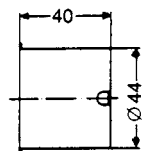
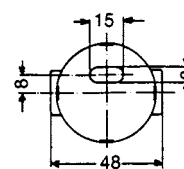


PROTECTIVE CAP

for socket outlet 1461

ARTICLE NO.	WEIGHT G/EACH
-------------	---------------

8798416	5
---------	---



INDUSTRIAL ETHERNET PLUG CONNECTIONS

The trend in production systems is going more and more towards decentralised, modular automation. This makes a failure-free communication of process and production data necessary. Most faults in industry networks are caused by contact problems.

ADVANTAGES

- Networking possibility from production up to the office level.
- Error-free transmission of Ethernet protocols.
- Rugged and maintenancefree.
- For short-term or continuous use for service purposes.



Degree of protection IP67
For daily continuous use in rough industry environments. Dust and water-proof.



Degree of protection IP55
Dust and water jet protected. For short-term service purposes.



- USB-modules
- RJ45 Cat. 6 modules

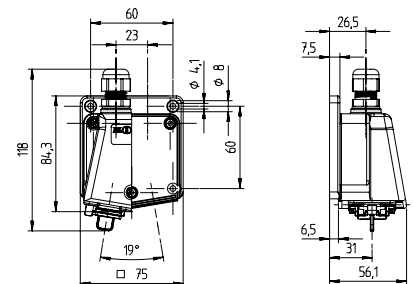


PANEL-MOUNTED SOCKET IP67

Access side
IDC insulation-piercing plug technology
Outgoing side
2 x RJ45 Cat.6 modules 8(8)

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
-------------	---------------	------------

DG-RJ45	160	1
---------	-----	---



POWER CUBE IP67

1 CEE socket outlet 5 x 16 A
3 SCHUKO socket outlets
2 RJ45 Cat.6 modules 8(8)

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
-------------	---------------	------------

Z35.0DG	875	1
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INDUSTRIAL ETHERNET PLUG CONNECTIONS

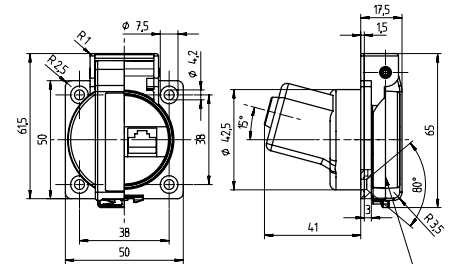


SOCKET OUTLET IP55

Access side:
IDC insulation-piercing plug technology
Outgoing side:
1 x RJ45 Cat.6 module 8(8) RJ45K13
2 x RJ45 Cat.6 modules 8(8) RJ45K23

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
RJ45K13	70	1
RJ45K23	100	1

RJ45K13	70	1
RJ45K23	100	1



Opening angle ~ 106°



SOCKET OUTLET IP55

Access side:
with RJ45 module plug connection
Outgoing side:
1 x RJ45 Cat.6 module 8(8) RJ45S13
2 x RJ45 Cat.6 modules 8(8) RJ45S23

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
RJ45S13	70	1
RJ45S23	100	1

RJ45S13	70	1
RJ45S23	100	1



PLUG IP67

RJ45 Cat.6 module 8(8)
with interlocking

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
RJSIP67	35	1

RJSIP67	35	1
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SOCKET OUTLET IP55

Access side · with RJ45 or
USB module
Outgoing side:
1 x RJ45, 1 x USB

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
RJUSB13	80	1

RJUSB13	80	1
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SOCKET OUTLET IP55

Access side:
USB module plug connection
Outgoing side:
1 x USB USBS13
2 x USB USBS23

ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
USBS13	50	1
USBS23	60	1

USBS13	50	1
USBS23	60	1

OUTLET BOXES

with screwless terminals



plug  power

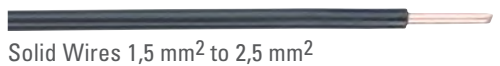
The innovative, screwless clamp
for fast and secure connections

- fast and safe connection
- for flush mounting and surface mounting
- for solid and stranded wires

CONNECTABLE CABLE FOR SCREWLESS TERMINALS



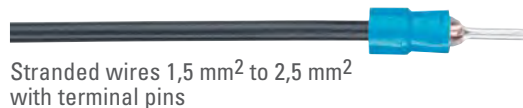
Required strip and pin length for
Cable Lug sizes 10 to 12 mm



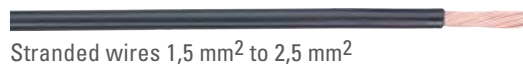
Solid Wires 1,5 mm² to 2,5 mm²



Stranded Wires 1,5 mm² to 2,5 mm²
with gas-tight, crimped ferrule



Stranded wires 1,5 mm² to 2,5 mm²
with terminal pins



Stranded wires 1,5 mm² to 2,5 mm²



Stranded wires 1,5 mm² to 2,5 mm²
ultrasonically welded



OUTLET BOX

Thermoplastic
For flush mounting and surface
mounting
Claw bracket can be snapped out
Cover with snap lock
Terminals: 5 x 2,5 mm²

COLOUR	ARTICLE NO.	WEIGHT G / EACH	PACK. UNIT
--------	-------------	-----------------	------------

white	2504210	63	10
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OUTLET BOXES

with screw terminals – compliant with VDE 0606



OUTLET BOX

Thermoplastic · for surface mounting
Cover with snap lock
Terminals: 5 x 2,5 to* 6 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2505010	80	10



OUTLET BOX

Thermoplastic · For flush mounting and surface mounting · Cover with snap lock · Terminals: 5 x 2,5 to* 6 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2505110	80	10



OUTLET BOX

Thermoplastic · For flush mounting and surface mounting · Claw bracket can be snapped out · Cover with snap lock
Terminals: 5 x 2,5 to* 6 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2505210	90	10



BASE PLATE IP44

with two cable entries
for outlet boxes 2505

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2505018	32	10



ADDITIONAL TERMINALS AND STRAIN RELIEF

2 Terminals 6 mm² · can be snapped onto terminal strip · for outlet boxes · 2505010/110/210

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
black	2505ZKS	14	1



OUTLET BOX

Thermoplastic · for flush mounting flat version
Cover with snap lock
Terminals: 5 x 2,5 mm²
extra flat – only 11 mm

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2506110	61	10



OUTLET BOX

Thermoplastic · For flush mounting and surface mounting
Claw bracket can be snapped out
Cover with snap lock
Terminals: 5 x 2,5 to* 6 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2510310	102	10



THREE-CHAMBER OUTLET BOX

For flush mounting and surface mounting
Dowel fastening
Terminals: 5 x 2,5 to* 6 mm² / 7 x 2,5 mm²

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2518610	166	5

* if conductor section is > 5 x 2,5 mm² use additional strain relief.

PERILEX PLUG CONNECTIONS

3-pole + N + \oplus , 16 A AC 400/230 V, acc. to DIN 49445/46



PLUG

Thermoset

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2201110	99	10

white	2201110	99	10
-------	---------	----	----



CONNECTOR

Thermoset

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2206110	149	10

white	2206110	149	10
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ANGLE PLUG

Thermoset

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2407110	113	10

white	2407110	113	10
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FLUSH-MOUNTED SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2421110	142	10

white	2421110	142	10
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FLUSH-MOUNTED SOCKET OUTLET

splash-proof IP44
with in-wall box

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2451510	234	10

white	2451510	234	10
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SURFACE-MOUNTED SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2491010	136	10

white	2491010	136	10
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SURFACE-MOUNTED SOCKET OUTLET

splash-proof IP44

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
grey	2441860	271	5

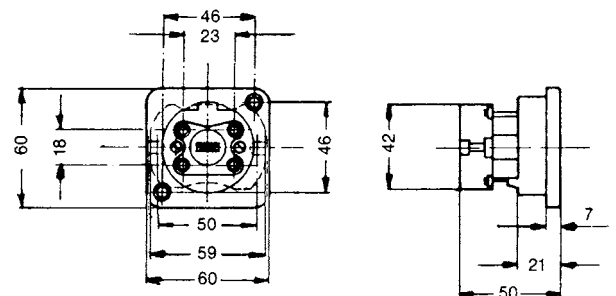
grey	2441860	271	5
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SOCKET OUTLET

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2213510	149	10

white	2213510	149	10
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PERILEX PLUG CONNECTIONS

3-pole + N + , 25 A AC 400/230 V, acc. to DIN 49447/48



ANGLE PLUG 25 A

Thermoset

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2302010	186	10

white	2302010	186	10
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FLUSH-MOUNTED SOCKET OUTLET 25 A

round form · Flush-mounted socket 2307100

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2303110	266	10
	2307100	111	20

white	2303110	266	10
	2307100	111	20



SURFACE-MOUNTED SOCKET OUTLET 25 A

round form

COLOUR	ARTICLE NO.	WEIGHT G/EACH	PACK. UNIT
white	2300010	284	10

white	2300010	284	10
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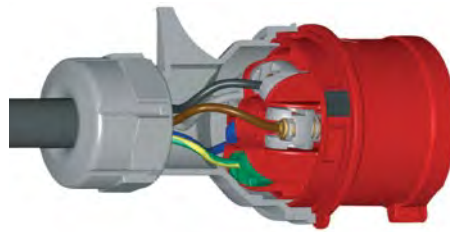


LOW VOLTAGE DEVICES

CEE PLUG CONNECTIONS

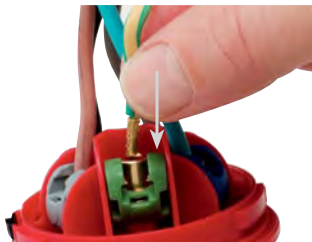
plug2power Technology	52
turn2fix Technology	53
Plugs	54
Angle Plugs	57
Wall-mounted Inlets	58
Appliance Inlets	60
Phase Inverters	63
Protective Covers	64
Connectors	65
Wall-mounted Socket Outlets	68
Combi-wall-mounted Socket Outlets	72
Panel-mounted Socket Outlets (straight)	73
Panel-mounted Socket Outlets (angled)	80
Flush-mounted Socket Outlet	87
EventLine	88
CEE Container Plugs and Socket Outlets	90
CEE Container Wall-mounted Socket Outlets	91
Low Voltage Plugs and Socket Outlets	92
Technical Characteristics and Notes on Application	97

1 SCREWLESS CONNECTION TECHNOLOGY



- Saves time during mounting
- Screwless plug2power terminals
- Open contact terminals in delivered state
- Quick and easy infeed of the cable
- Closing and opening the contact terminal with the press of a finger
- Simple connection with colour coded clamps
- Maintenance-free and wear-free contacts

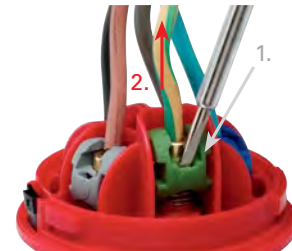
2 FAST MOUNTING / REMOVING



Mounting:
insert cable

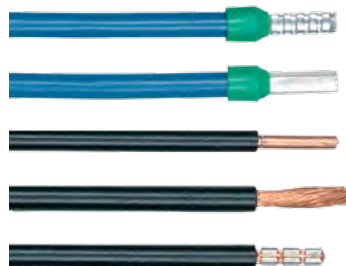


Close terminal



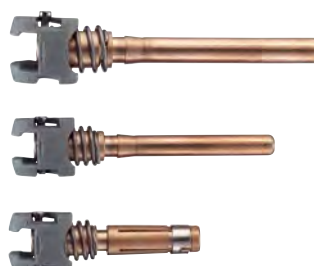
Removing:
Open terminal using a screwdriver,
pull out the cable

3 SUITABLE FOR ALL CABLE ENDS



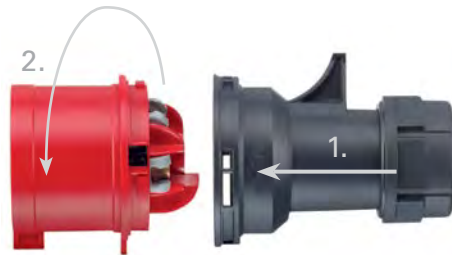
- With or without ferrules
- Single wire stripped wires

4 RECORDING OF ALL CABLE CROSS-SECTIONS ACCORDING TO STANDARD



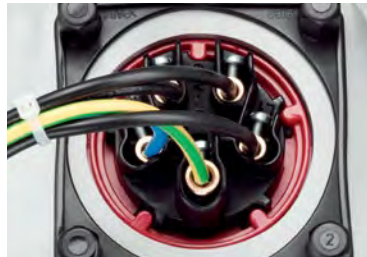
- 16 A: up to 2.5 mm² flexible, up to 4 mm² single wire
- 32 A: up to 6.0 mm² flexible, up to 10 mm² single wire
- For difficult conditions
- High tensile strength
- Shock-proof and vibration-resistant

5 TOOL-LESS ASSEMBLY



- Multi-ramp locking system
- Simple mounting, turning the connection housing locks it in place:
- 1. Put the "OPEN" labels of the top and bottom opposite each other and plug the top onto the bottom
- 2. Turn the top to the right until it locks in place

6 CONNECTING TERMINALS



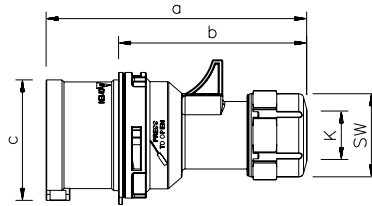
The tunnel terminals are designed for the following maximum conductor crosssections:

NOMINAL CURRENT	CONDUCTOR CROSS-SECTION
-----------------	-------------------------

A	flexible mm ²	Stiff (single/multiple wire) mm ²
16	4	6
32	6	10
63	16	25
125	50	70

CEE PLUGS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	118	124	131	146	146	152
b	82	88	95	100	100	106
c	47	53	61	63	63	70
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	104	127	150	181	200	230



PLUG

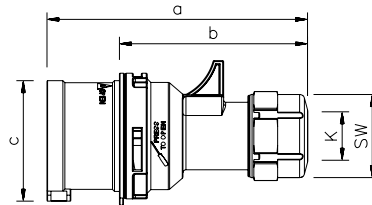
splash-proof IP44

- screw terminals
- quick release locking system (turn2fix)

All plugs are also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S31V10.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	S31S10	S31S20	S31S30		S31S50	S31S80	S31S90	10
16	4	S41S10	S41S20	S41S30	S41S40	S41S50	S41S80	S41S90	10
16	5	S51S10	S51S20	S51S30		S51S50	S51S80	S51S90	10
32	3	S32S10	S32S20	S32S30		S32S50	S32S80	S32S90	10
32	4	S42S10	S42S20	S42S30	S42S40	S42S50	S42S80	S42S90	10
32	5	S52S10	S52S20	S52S30		S52S50	S52S80	S52S90	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	118	124	131	146	146	152
b	82	88	95	100	100	106
c	47	53	61	63	63	70
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	110	135	158	187	208	242



PLUG

splash-proof IP44

- screwless connection technology (plug2power)
- quick release locking system (turn2fix)

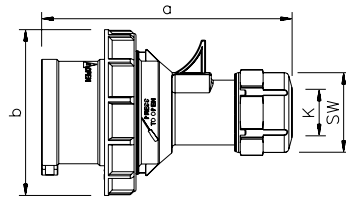
All plugs are also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S31VL10.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	S31SL10	S31SL20	S31SL30	S31SL50	S31SL80	S31SL90	10
16	4	S41SL10	S41SL20	S41SL30	S41SL50	S41SL80	S41SL90	10
16	5	S51SL10	S51SL20	S51SL30	S51SL50	S51SL80	S51SL90	10
32	3	S32SL10	S32SL20	S32SL30	S32SL50	S32SL80	S32SL90	10
32	4	S42SL10	S42SL20	S42SL30	S42SL50	S42SL80	S42SL90	10
32	5	S52SL10	S52SL20	S52SL30	S52SL50	S52SL80	S52SL90	10

CEE PLUGS

according to IEC 60309, EN 60309, VDE 0623



PLUG

watertight IP67

- screw terminals
- quick release locking system (turn2fix)

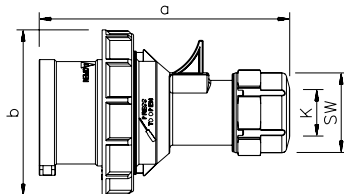
All plugs are also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S31V15.

POLES	3	4	5	3	4	5
AMPERE	16			32		

a	118	124	131	146	146	152
b	71	79	87	93	93	100
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	122	147	172	210	230	263

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	S31S15	S31S25	S31S35		S31S55	S31S85	S31S95	10
16	4	S41S15	S41S25	S41S35	S41S45	S41S55	S41S85	S41S95	10
16	5	S51S15	S51S25	S51S35		S51S55	S51S85	S51S95	10
32	3	S32S15	S32S25	S32S35		S32S55	S32S85	S32S95	10
32	4	S42S15	S42S25	S42S35	S42S45	S42S55	S42S85	S42S95	10
32	5	S52S15	S52S25	S52S35		S52S55	S52S85	S52S95	10



PLUG

watertight IP67

- screwless connection technology (plug2power)
- quick release locking system (turn2fix)

All plugs are also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S31V15.

POLES	3	4	5	3	4	5
AMPERE	16			32		

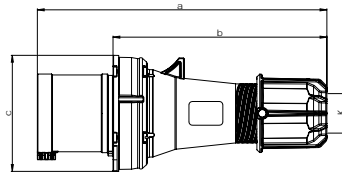
a	118	124	131	146	146	152
b	71	79	87	93	93	100
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	128	155	180	216	238	275

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	S31SL15	S31SL25	S31SL35	S31SL55	S31SL85	S31SL95	10
16	4	S41SL15	S41SL25	S41SL35	S41SL55	S41SL85	S41SL95	10
16	5	S51SL15	S51SL25	S51SL35	S51SL55	S51SL85	S51SL95	10
32	3	S32SL15	S32SL25	S32SL35	S32SL55	S32SL85	S32SL95	10
32	4	S42SL15	S42SL25	S42SL35	S42SL55	S42SL85	S42SL95	10
32	5	S52SL15	S52SL25	S52SL35	S52SL55	S52SL85	S52SL95	10

CEE PLUGS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5
AMPERE	63		

a	257	257	257
b	190	190	190
c	102	102	102
K	14,5-36	14,5-36	14,5-36
Weight [g/each]	500	549	603

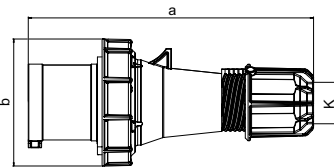
PLUG

splash-proof IP44

- HighPower version
- nickel-plated contacts with pilot contact
- screw terminals

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	S33S10	S33S20	S33S30		S33S50	S33S80	S33S90	2
63	4	S43S10	S43S20	S43S30	S43S40	S43S50	S43S80	S43S90	2
63	5	S53S10	S53S20	S53S30		S53S50	S53S80	S53S90	2



POLES	3	4	5	3	4	5
AMPERE	63			125 A		

a	257	257	257	270	270	270
b	114	114	114	131	131	131
K	14,5-36	14,5-36	14,5-36	22,5-50	22,5-50	22,5-50
Weight [g/each]	547	596	650	1318	1433	1545

PLUG

watertight IP67

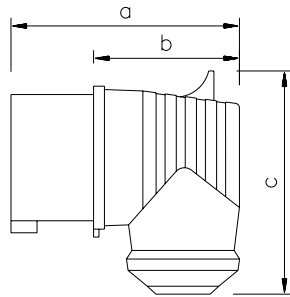
- HighPower version
- nickel-plated contacts with pilot contact
- screw terminals

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	S33S15	S33S25	S33S35		S33S55	S33S85	S33S95	2
63	4	S43S15	S43S25	S43S35	S43S45	S43S55	S43S85	S43S95	2
63	5	S53S15	S53S25	S53S35		S53S55	S53S85	S53S95	2
125	3	S34S15	S34S25	S34S35		S34S55	S34S85	S34S95	2
125	4	S44S15	S44S25	S44S35	S44S45	S44S55	S44S85	S44S95	2
125	5	S54S15	S54S25	S54S35		S54S55	S54S85	S54S95	2

CEE ANGLE PLUGS

according to IEC 60309, EN 60309, VDE 0623



ANGLE PLUG

splash-proof IP44

- short entry sleeve at the side
- screw terminals

The angle plug is also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S51V32.

POLES	5
AMPERE	16

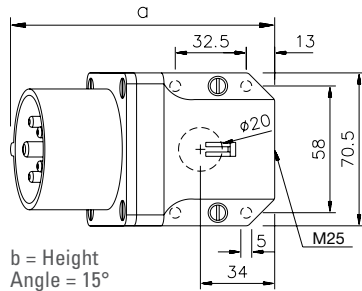
a	101
b	65
c	98
Weight [g/each]	180

VOLTAGE	400 V~
FREQUENCY	50/60 Hz
DESIGNATION	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	PACKING UNIT
16	5	S51S32	10

CEE WALL-MOUNTED INLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	121	121	123	131	131	132
b	76	76	79	83	83	86
Weight [g/each]	176	195	213	231	251	274

WALL-MOUNTED INLET

splash-proof IP44

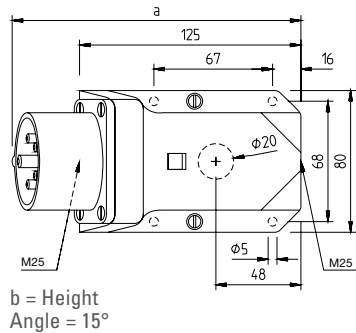
- cable entry from above or behind
- including self-sealing grommet

All wall-mounted inlets are also available with **nickel-plated** contacts.

Add a "V" instead of the "S" to the article number e.g. G31V10.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	G31S10	G31S20	G31S30	G31S50	G31S80	G31S90	10
16	4	G41S10	G41S20	G41S30	G41S50	G41S80	G41S90	10
16	5	G51S10	G51S20	G51S30	G51S50	G51S80	G51S90	10
32	3	G32S10	G32S20	G32S30	G32S50	G32S80	G32S90	10
32	4	G42S10	G42S20	G42S30	G42S50	G42S80	G42S90	10
32	5	G52S10	G52S20	G52S30	G52S50	G52S80	G52S90	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	162	162	164	172	172	174
b	115	115	117	119	119	122
M	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25
Weight [g/each]	284	294	314	332	352	375

WALL-MOUNTED INLET

splash-proof IP44

- can be looped through
- cable entry above, below or behind
- including self-sealing grommet

All wall-mounted inlets are also available with nickel-plated contacts.

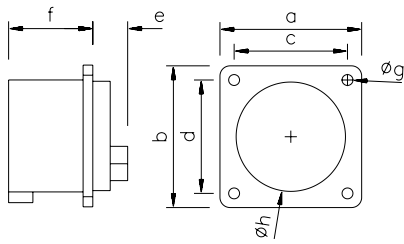
Add a "V" instead of the "S" to the article number e.g. G31V12.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	G31S12	G31S22	G31S32	G31S52	G31S82	G31S92	5
16	4	G41S12	G41S22	G41S32	G41S52	G41S82	G41S92	5
16	5	G51S12	G51S22	G51S32	G51S52	G51S82	G51S92	5
32	3	G32S12	G32S22	G32S32	G32S52	G32S82	G32S92	5
32	4	G42S12	G42S22	G42S32	G42S52	G42S82	G42S92	5
32	5	G52S12	G52S22	G52S32	G52S52	G52S82	G52S92	5

CEE APPLIANCE INLETS

according to IEC 60309, EN 60309, VDE 0623



a with Flange 75 x 75 mm,
b with Flange 70 x 70 mm

POLES	5 ^a	5 ^a	3 ^b	4 ^b	5 ^b	3 ^b	4 ^b	5 ^b
AMPERE	16	32	16			32		

a and b	75	75	70	70	70	70	70	70
c and d	60	60	56	56	56	56	56	56
e	26	30	25	25	26	30	30	30
f	42	50	41	41	42	50	50	50
g	5	5	5	5	5	5	5	5
h	54	55	43	43	55	55	55	55
Weight [g/each]	120	181	87	100	112	140	160	178

APPLIANCE INLET, STRAIGHT

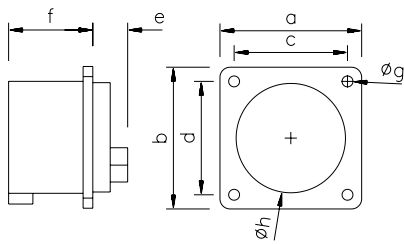
splash-proof IP44

- screw terminals
- Notice acc. to EN 60309:
for correct use, a retaining lug
or retaining slot is necessary.

All appliance inlets are also
available with nickel-
plated contacts.
Add a "V" instead of the "S" to
the article number e.g. A51V14.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	5 ^a	A51S14	A51S24	A51S34	A51S54	A51S84	A51S94	10
32	5 ^a	A51S14	A52S24	A52S34	A52S54	A52S84	A52S94	10
16	3 ^b	A31S12	A31S22	A31S32	A31S52	A31S82	A31S92	10
16	4 ^b	A41S12	A41S22	A41S32	A41S52	A41S82	A41S92	10
16	5 ^b	A51S12	A51S22	A51S32	A51S52	A51S82	A51S92	10
32	3 ^b	A32S12	A32S22	A32S32	A32S52	A32S82	A32S92	10
32	4 ^b	A42S12	A42S22	A42S32	A42S52	A42S82	A42S92	10
32	5 ^b	A52S12	A52S22	A52S32	A52S52	A52S82	A52S92	10



a with Flange 60 x 60 mm,
b with Flange 56 x 56 mm

POLES	3 ^a	4 ^a	5 ^a	3 ^b	4 ^b
AMPERE	16			16	

a and b	60	60	60	56	56
c and d	50	50	50	48	48
e	25	25	26	25	25
f	41	41	42	41	41
g	4,5	4,5	4,5	4,5	4,5
h	43	43	54	43	43
Weight [g/each]	82	95	112	75	91

APPLIANCE INLET, STRAIGHT

splash-proof IP44

- screw terminals
- Notice acc. to EN 60309:
for correct use, a retaining lug
or retaining slot is necessary.

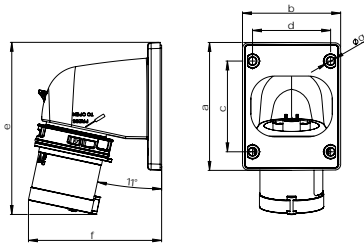
All appliance inlets are also
available with nickel-
plated contacts.
Add a "V" instead of the "S" to
the article number e.g. A31V13.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	A31S13	A31S23	A31S33	A31S53	A31S83	A31S93	10
16	4 ^a	A41S13	A41S23	A41S33	A41S53	A41S83	A41S93	10
16	5 ^a	A51S13	A51S23	A51S33	A51S53	A51S83	A51S93	10
16	3 ^b	A31S14	A31S24	A31S34	A31S54	A31S84	A31S94	10
16	4 ^b	A41S14	A41S24	A41S34	A41S54	A41S84	A41S94	10

CEE APPLIANCE INLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	86	86	100	100	100	100
b	66	66	90	90	90	90
c	61	61	85	85	85	85
d	53	53	77	77	77	77
e	116	117	153	163	163	164
f	90	93	98	100	100	103
g	5	5	5	5	5	5
Weight [g/each]	129	143	187	200	220	244



ANGLE APPLIANCE INLET

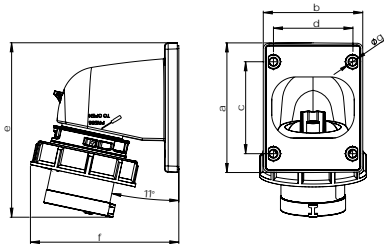
splash-proof IP44

- screw terminals
- quick release locking system (turn2fix)

All angle appliance inlets are also available with nickel-plated contacts. Add a "V" instead of the "S" to the article number e.g. A31V11.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	A31S11	A31S21	A31S31	A31S51	A31S81	A31S91	10
16	4	A41S11	A41S21	A41S31	A41S51	A41S81	A41S91	10
16	5	A51S11	A51S21	A51S31	A51S51	A51S81	A51S91	10
32	3	A32S11	A32S21	A32S31	A32S51	A32S81	A32S91	10
32	4	A42S11	A42S21	A42S31	A42S51	A42S81	A42S91	10
32	5	A52S11	A52S21	A52S31	A52S51	A52S81	A52S91	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	86	86	100	100	100	100
b	66	66	90	90	90	90
c	61	61	85	85	85	85
d	53	53	77	77	77	77
e	116	117	153	163	163	164
f	99	103	107	110	110	114
g	5	5	5	5	5	5
Weight [g/each]	146	165	212	231	251	275



ANGLE APPLIANCE INLET

watertight IP67

- screw terminals
- quick release locking system (turn2fix)

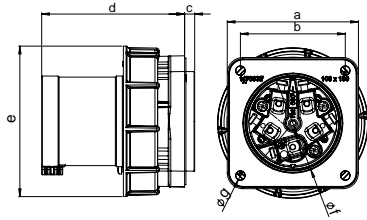
All angle appliance inlets are also available with nickel-plated contacts. Add a "V" instead of the "S" to the article number e.g. A31V16.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	A31S16	A31S26	A31S36	A31S56	A31S86	A31S96	10
16	4	A41S16	A41S26	A41S36	A41S56	A41S86	A41S96	10
16	5	A51S16	A51S26	A51S36	A51S56	A51S86	A51S96	10
32	3	A32S16	A32S26	A32S36	A32S56	A32S86	A32S96	10
32	4	A42S16	A42S26	A42S36	A42S56	A42S86	A42S96	10
32	5	A52S16	A52S26	A52S36	A52S56	A52S86	A52S96	10

CEE APPLIANCE INLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	63			125		

a	100	100	100	120	120	120
b	80	80	80	100	100	100
c	8	8	8	13	13	13
d	109	109	109	118	118	118
e	115	115	115	131	131	131
f	77	77	77	95	95	95
g	7	7	7	7	7	7
Weight [g/each]	479	531	581	786	896	1003

APPLIANCE INLET STRAIGHT

watertight IP67

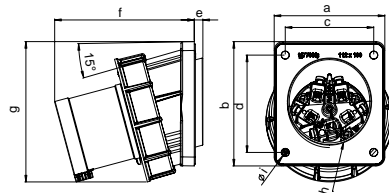
- HighPower version
- nickel-plated contacts with pilot contact
- screw terminals

Watertight cap see page 64

IP44 upon request

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLE	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	A33S17	A33S27	A33S37	A33S57	A33S87	A33S97	2
63	4	A43S17	A43S27	A43S37	A43S57	A43S87	A43S97	2
63	5	A53S17	A53S27	A53S37	A53S57	A53S87	A53S97	2
125	3	A34S17	A34S27	A34S37	A34S57	A34S87	A34S97	2
125	4	A44S17	A44S27	A44S37	A44S57	A44S87	A44S97	2
125	5	A54S17	A54S27	A54S37	A54S57	A54S87	A54S97	2



POLES	3	4	5	3	4	5
AMPERE	63			125		

a	100	100	100	120	120	120
b	112	112	112	130	130	130
c	80	80	80	100	100	100
d	88	88	88	108	108	108
e	8	8	8	8	8	8
f	127	127	127	139	139	139
g	127	127	127	145	145	145
h	80	80	80	80	80	80
i	7	7	7	7	7	7
Weight [g/each]	515	566	617	833	942	1050

APPLIANCE INLET ANGLED 15°

watertight IP67

- HighPower version
- nickel-plated contacts with pilot contact
- screw terminals

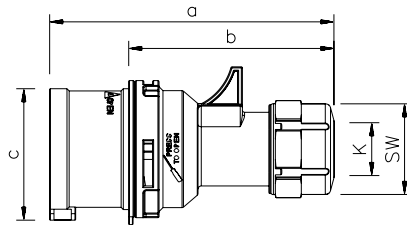
Watertight cap see page 64

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	A33S15	A33S25	A33S35	A33S55	A33S85	A33S95	2
63	4	A43S15	A43S25	A43S35	A43S55	A43S85	A43S95	2
63	5	A53S15	A53S25	A53S35	A53S55	A53S85	A53S95	2
125	3	A34S15	A34S25	A34S35	A34S55	A34S85	A34S95	2
125	4	A44S15	A44S25	A44S35	A44S55	A44S85	A44S95	2
125	5	A54S15	A54S25	A54S35	A54S55	A54S85	A54S95	2

CEE PHASE INVERTERS

according to IEC 60309, EN 60309, VDE 0623



PHASE INVERTER

splash-proof IP44
watertight IP67

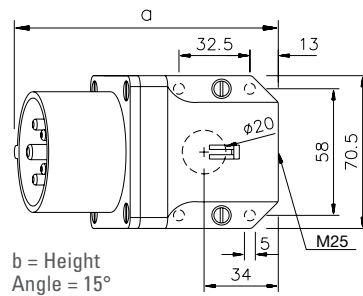
- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

POLES	4	5	4	5
AMPERE	16		32	

a	124	131	146	152
b	88	95	100	106
c	53	61	63	70
K	6-15	8-16	10-20	12-22
SW	38	42	50	50
Weight [g/each]	122	156	190	232

VOLTAGE	230 V~	400 V~	DEGREE OF PROTECTION
FREQUENCY	50/60 Hz	50/60 Hz	
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	IP	PACKING UNIT
16	4	S41S20P	S41S30P	44	10
16	4	S41S25P	S41S35P	67	10
16	5		S51S30P	44	10
16	5		S51S35P	67	10
32	4	S42S20P	S42S30P	44	10
32	4	S42S25P	S42S35P	67	10
32	5		S52S30P	44	10
32	5		S52S35P	67	10



PHASE INVERTER – WALL-MOUNTED INLET

splash-proof IP44

- screw terminals
- cable entry from above or behind
- nickel-plated contacts

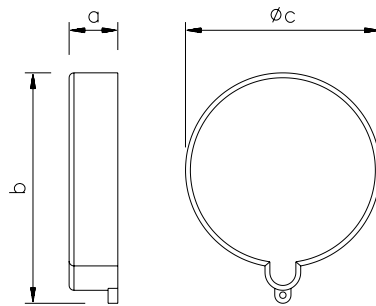
POLES	5	5
AMPERE	16	32

a	123	132	123	132
b	79	86	79	86
M	25	25	25	25
Weight [g/each]	215	280	215	280

VOLTAGE	400 V~
FREQUENCY	50/60 Hz
DESIGNATION	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	NOTICE	PACKING UNIT
16	5	G51S30P		10
16	5	G51S31P	with hinged lid	10
32	5	G52S30P		10
32	5	G52S31P	with hinged lid	10

CEE COVERS

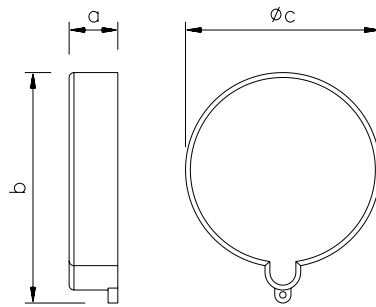


POLES	3	4	5	3	4	5
AMPERE	16			32		

a	15	15	15	15	15	15
b	56	63	71	71	71	79
c	48	54	61	61	61	67
Weight [g/each]	10	12	14	14	14	16
Article no.	VD0163	VD0164	VD0165	VD0323	VD0323	VD0325

DUST CAP 16 AND 32 A

- for all plugs and appliance inlets
- protects contacts from contamination

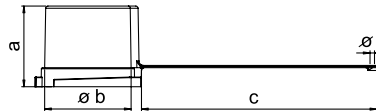


POLES	3	4	5	3	4	5
AMPERE	63			125		

a	21	21	21	21	21	21
b	82	82	82	93	93	93
c	73	73	73	86	86	86
Weight [g/each]	21	21	21	25	25	25
Article no.	VD0633	VD0633	VD0633	VD1253	VD1253	VD1253

DUST CAP 63 AND 125 A

- for all plugs and appliance inlets
- protects contacts from contamination



POLES	3	4	5	3	4	5
AMPERE	63			125		

a	72	72	72	82	82	82
b	78	78	78	91	91	91
c	211	211	211	205	205	205
d	4	4	4	5	5	5
Weight [g/each]	75	75	75	98	98	98
Article no.	WS0633	WS0633	WS0633	WS1253	WS1253	WS1253

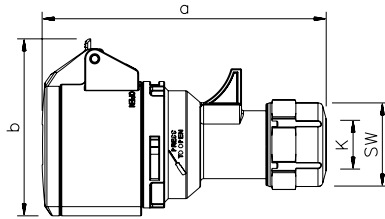
WATER PROTECTION CAP 63 AND 125 A

watertight IP67

- for all 63 and 125 A plugs and appliance inlets

CEE CONNECTORS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	129	135	142	159	159	165
b	76	80	89	92	92	98
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	137	161	183	225	244	278



CONNECTOR

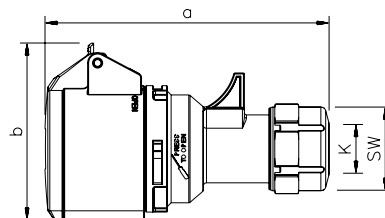
splash-proof IP44

- hinged lid with thumb grip
- screw terminals
- quick release locking system (turn2fix)

All connectors are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. K31V10.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	K31S10	K31S20	K31S30		K31S50	K31S80	K31S90	10
16	4	K41S10	K41S20	K41S30	K41S40	K41S50	K41S80	K41S90	10
16	5	K51S10	K51S20	K51S30		K51S50	K51S80	K51S90	10
32	3	K32S10	K32S20	K32S30		K32S50	K32S80	K32S90	10
32	4	K42S10	K42S20	K42S30	K42S40	K42S50	K42S80	K42S90	10
32	5	K52S10	K52S20	K52S30		K52S50	K52S80	K52S90	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	129	135	142	159	159	165
b	76	80	89	92	92	98
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	142	168	195	232	251	285



CONNECTOR

splash-proof IP44

- hinged lid with thumb grip
- screwless connection technology (plug2power)
- quick release locking system (turn2fix)

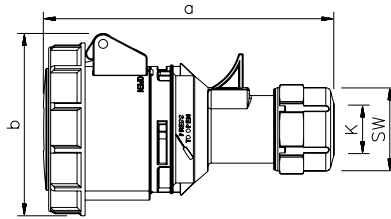
All connectors are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. K31V10.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	K31SL10	K31SL20	K31SL30	K31SL50	K31SL80	K31SL90	10
16	4	K41SL10	K41SL20	K41SL30	K41SL50	K41SL80	K41SL90	10
16	5	K51SL10	K51SL20	K51SL30	K51SL50	K51SL80	K51SL90	10
32	3	K32SL10	K32SL20	K32SL30	K32SL50	K32SL80	K32SL90	10
32	4	K42SL10	K42SL20	K42SL30	K42SL50	K42SL80	K42SL90	10
32	5	K52SL10	K52SL20	K52SL30	K52SL50	K52SL80	K52SL90	10

CEE CONNECTORS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	133	139	145	162	162	168
b	78	84	92	96	96	102
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	156	185	215	266	285	323



CONNECTOR

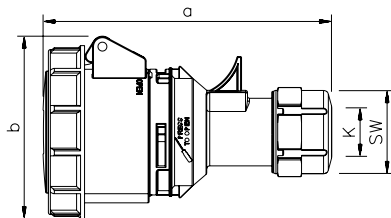
watertight IP67

- screw terminals
- quick release locking system (turn2fix)

All connectors are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. K31V15.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	K31S15	K31S25	K31S35		K31S55	K31S85	K31S95	10
	4	K41S15	K41S25	K41S35	K41S45	K41S55	K41S85	K41S95	10
	5	K51S15	K51S25	K51S35		K51S55	K51S85	K51S95	10
32	3	K32S15	K32S25	K32S35		K32S55	K32S85	K32S95	10
	4	K42S15	K42S25	K42S35	K42S45	K42S55	K42S85	K42S95	10
	5	K52S15	K52S25	K52S35		K52S55	K52S85	K52S95	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	133	139	145	162	162	168
b	78	84	92	96	96	102
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	161	192	227	273	292	330



CONNECTOR

watertight IP67

- screwless connection technology (plug2power)
- quick release locking system (turn2fix)

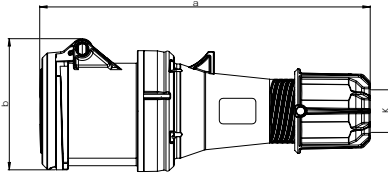
All connectors are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. K31V15.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	K31SL15	K31SL25	K31SL35	K31SL55	K31SL85	K31SL95	10
	4	K41SL15	K41SL25	K41SL35	K41SL55	K41SL85	K41SL95	10
	5	K51SL15	K51SL25	K51SL35	K51SL55	K51SL85	K51SL95	10
32	3	K32SL15	K32SL25	K32SL35	K32SL55	K32SL85	K32SL95	10
	4	K42SL15	K42SL25	K42SL35	K42SL55	K42SL85	K42SL95	10
	5	K52SL15	K52SL25	K52SL35	K52SL55	K52SL85	K52SL95	10

CEE CONNECTORS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5
AMPERE	63		

a	269	269	269
b	107	107	107
K	14,5-36	14,5-36	14,5-36
Weight [g/each]	626	677	727

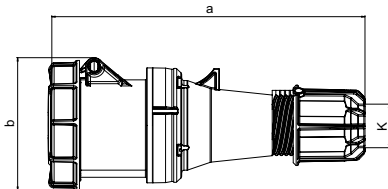
CONNECTOR

splash-proof IP44

- HighPower version
- with pilot contact
- screw terminals

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	K33S10	K33S20	K33S30		K33S50	K33S80	K33S90		2
63	4	K43S10	K43S20	K43S30	K43S40	K43S50	K43S80	K43S90		2
63	5	K53S10	K53S20	K53S30		K53S50	K53S80	K53S90		2



POLES	3	4	5	3	4	5
AMPERE	63			125		

a	269	269	269	287	287	287
b	114	114	114	124	124	124
K	14,5-36	14,5-36	14,5-36	22,5-50	22,5-50	22,5-50
Weight [g/each]	669	720	770	1054	1158	1250

CONNECTOR

watertight IP67

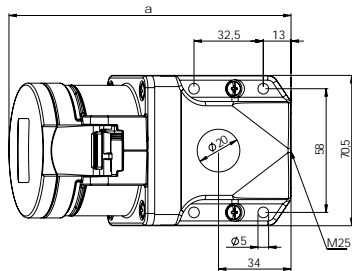
- HighPower version
- with pilot contact
- screw terminals

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	K33S15	K33S25	K33S35		K33S55	K33S85	K33S95		2
63	4	K43S15	K43S25	K43S35	K43S45	K43S55	K43S85	K43S95		2
63	5	K53S15	K53S25	K53S35		K53S55	K53S85	K53S95		2
125	3	K34S15	K34S25	K34S35		K34S55	K34S85	K34S95		2
125	4	K44S15	K44S25	K44S35	K44S45	K44S55	K44S85	K44S95		2
125	5	K54S15	K54S25	K54S35		K54S55	K54S85	K54S95		2

CEE WALL-MOUNTED SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	126	128	129	141	141	143
b	86	90	96	97	97	104
M	25	25	25	25	25	25
Weight [g/each]	205	213	238	258	273	319

b = Height, Angle = 15°

WALL-MOUNTED SOCKET OUTLET

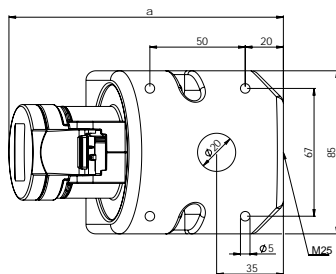
splash-proof IP44

- screw terminals
- cable entry from above or behind including self-sealing grommet

All wall-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. D31V10.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	D31S10	D31S20	D31S30		D31S50	D31S80	D31S90	10
16	4	D41S10	D41S20	D41S30	D41S40	D41S50	D41S80	D41S90	10
16	5	D51S10	D51S20	D51S30		D51S50	D51S80	D51S90	10
32	3	D32S10	D32S20	D32S30		D32S50	D32S80	D32S90	10
32	4	D42S10	D42S20	D42S30	D42S40	D42S50	D42S80	D42S90	10
32	5	D52S10	D52S20	D52S30		D52S50	D52S80	D52S90	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	140	141	139	152	152	153
b	89	92	97	100	100	105
M	25	25	25	25	25	25
Weight [g/each]	228	248	258	279	295	324

b = Height, Angle = 15°



WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- screwless connection technology (plug2power)
- cable entry from above or behind including self-sealing grommet

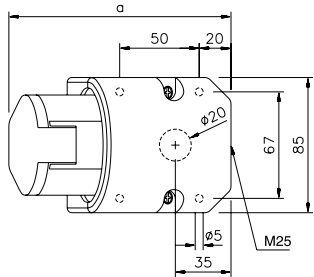
All wall-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. D31V10.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	D31SL10	D31SL20	D31SL30	D31SL50	D31SL80	D31SL90	10
16	4	D41SL10	D41SL20	D41SL30	D41SL50	D41SL80	D41SL90	10
16	5	D51SL10	D51SL20	D51SL30	D51SL50	D51SL80	D51SL90	10
32	3	D32SL10	D32SL20	D32SL30	D32SL50	D32SL80	D32SL90	10
32	4	D42SL10	D42SL20	D42SL30	D42SL50	D42SL80	D42SL90	10
32	5	D52SL10	D52SL20	D52SL30	D52SL50	D52SL80	D52SL90	10

CEE WALL-MOUNTED SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	140	141	139	152	152	153
b	89	92	97	100	100	105
M	25	25	25	25	25	25
Weight [g/each]	228	248	258	279	295	324

b = Height, Angle = 15°

WALL-MOUNTED SOCKET OUTLET

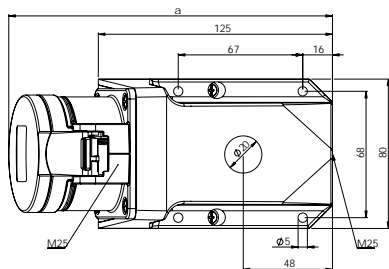
splash-proof IP44

- screw terminals
- cable entry from above or behind
- including self-sealing grommet

All wall-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. D31V11.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	D31S11	D31S21	D31S31	D31S51	D31S81	D31S91		10
	4	D41S11	D41S21	D41S31	D41S51	D41S81	D41S91		
	5	D51S11	D51S21	D51S31	D51S51	D51S81	D51S91		
32	3	D32S11	D32S21	D32S31	D32S51	D32S81	D32S91		10
	4	D42S11	D42S21	D42S31	D42S51	D42S81	D42S91		
	5	D52S11	D52S21	D52S31	D52S51	D52S81	D52S91		



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	171	172	170	182	182	183
b	127	130	135	135	135	144
M	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25
Weight [g/each]	314	334	344	380	392	434

b = Height, Angle = 15°

WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- screw terminals
- can be looped through
- cable entry above or below
- including self-sealing grommet

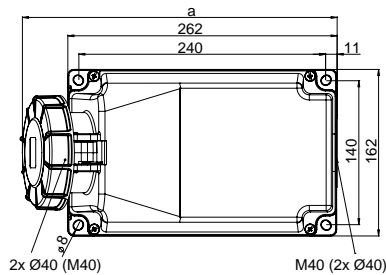
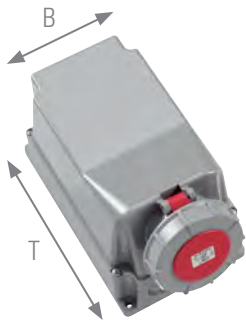
All wall-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. D31V12.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	D31S12	D31S22	D31S32		D31S52	D31S82	D31S92	5
	4	D41S12	D41S22	D41S32		D41S52	D41S82	D41S92	
	5	D51S12	D51S22	D51S32		D51S52	D51S82	D51S92	
32	3	D32S12	D32S22	D32S32		D32S52	D32S82	D32S92	5
	4	D42S12	D42S22	D42S32	D42S42	D42S52	D42S82	D42S92	
	5	D52S12	D52S22	D52S32		D52S52	D52S82	D52S92	

CEE WALL-MOUNTED SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5
AMPERE	63		

a	306	306	306
b	195	195	195
Weight [g/each]	1354	1403	1459

b = Height, Angle = 15°

WALL-MOUNTED SOCKET OUTLET

watertight IP67

Basic housing W x H x D = 160 x 260 x 190 mm

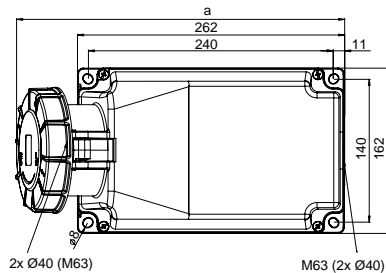
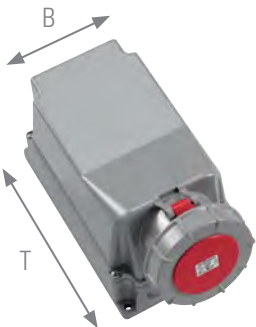
1 x M40 above, 2 x Ø40 below

- HighPower version
- with pilot contact
- screw terminals
- cable entry above, below or behind
- housing can be rotated 180°

splash-proof IP44 upon request

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3	D33S17	D33S27	D33S37		D33S57	D33S87	D33S97	2
63	4	D43S17	D43S27	D43S37	D43S47	D43S57	D43S87	D43S97	2
63	5	D53S17	D53S27	D53S37		D53S57	D53S87	D53S97	2



POLES	3	4	5
AMPERE	125		

a	322	322	322
b	205	205	205
Weight [g/each]	1850	1900	1950

b = Height, Angle = 15°

WALL-MOUNTED SOCKET OUTLET

watertight IP67

* Basic housing W x H x D = 160 x 201 x 260 mm

1 x Ø50 above, 2 x Ø40 below

**Basic housing W x H x D = 160 x 201 x 260 mm

1 x M63 above, 2 x Ø40 below

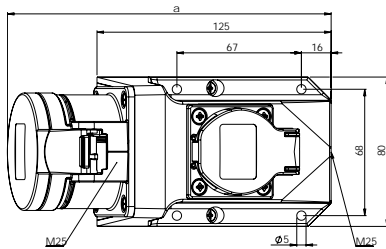
- HighPower version
- with pilot contact
- screw terminals
- cable entry above, below or behind
- housing can be rotated 180°

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
125 *	3	D34S17	D34S27	D34S37		D34S57	D34S87	D34S97	1
125 **	4	D44S17	D44S27	D44S37	D44S47	D44S57	D44S87	D44S97	1
125 **	5	D54S17	D54S27	D54S37		D54S57	D54S87	D54S97	1

CEE COMBI-WALL-MOUNTED SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a	171	172	170	182	182	183
b	127	130	135	135	135	144
M	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25	2 x 25
Weight [g/each]	394	415	425	446	458	500

b = Height, Angle = 15°

COMBI-WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- wall box with integrated SCHUKO socket outlet
- connecting terminals up to 10 mm²
- **wired**
- cable entry above, below or behind
- for 32 A: SCHUKO socket outlet fused, fuse (10 A delayed-tripping)
- including self-sealing grommet

^a pre-wired
^b not pre-wired

VOLTAGE	230 V~	400 V~	VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz	FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	PO-LES	ARTICLE NO.	ARTICLE NO.	AMPERE	PO-LES	ARTICLE NO.	ARTICLE NO.	PACK. UNIT
16	3 ^a	D31S231		16	3 ^b	D31S232		5
16	4 ^a	D41S231	D41S331	16	4 ^b	D41S232	D41S332	5
16	5 ^a		D51S331	16	5 ^b		D51S332	5
32	3 ^a	D32S231		32	3 ^b	D32S232		5
32	4 ^a	D42S231	D42S331	32	4 ^b	D42S232	D42S332	5
32	5 ^a		D52S331	32	5 ^b		D52S332	5



COMBI-WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- wall box with integrated protective contact socket outlet with earth pin (**CEE 7/V**)
- connecting terminals up to 10 mm²
- **wired**
- cable entry above, below or behind
- for 32 A: protective contact socket outlet fused, fuse (10 A delayed-tripping)
- including self-sealing grommet

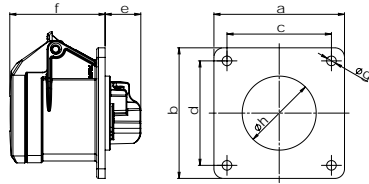
^a pre-wired
^b not pre-wired

VOLTAGE	230 V~	400 V~	VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz	FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	PO-LES	ARTICLE NO.	ARTICLE NO.	AMPERE	PO-LES	ARTICLE NO.	ARTICLE NO.	PACK. UNIT
16	3 ^a	D31S233		16	3 ^b	D31S234		5
16	4 ^a	D41S233	D41S333	16	4 ^b	D41S234	D41S334	5
16	5 ^a		D51S333	16	5 ^b		D51S334	5
32	3 ^a	D32S233		32	3 ^b	D32S234		5
32	4 ^a	D42S233	D42S333	32	4 ^b	D42S234	D42S334	5
32	5 ^a		D52S333	32	5 ^b		D52S334	5

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	75	75	75	75	75	75
c and d	60	60	60	60	60	60
e	21	21	21	23	23	23
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	117	132	141	168	185	217

PANEL-MOUNTED SOCKET OUTLET STRAIGHT

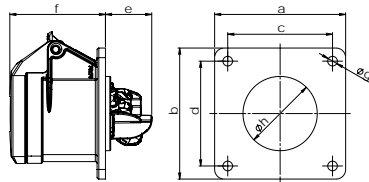
splash-proof IP44

- screw terminals
- suitable for cable ducts

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V100.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S100	F31S200	F31S300		F31S500	F31S800	F31S900	10
16	4	F41S100	F41S200	F41S300	F41S400	F41S500	F41S800	F41S900	10
16	5	F51S100	F51S200	F51S300		F51S500	F51S800	F51S900	10
32	3	F32S100	F32S200	F32S300		F32S500	F32S800	F32S900	10
32	4	F42S100	F42S200	F42S300	F42S400	F42S500	F42S800	F42S900	10
32	5	F52S100	F52S200	F52S300		F52S500	F52S800	F52S900	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	75	75	75	75	75	75
c and d	60	60	60	60	60	60
e	27	27	27	27	27	27
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	116	131	138	156	173	200

plug2power

PANEL-MOUNTED SOCKET OUTLET STRAIGHT

splash-proof IP44

- screwless connection technology (plug2power)
- suitable for cable ducts

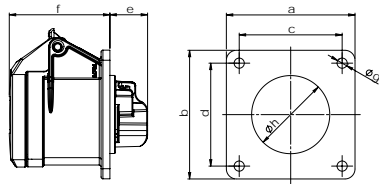
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V11.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL11	F31SL21	F31SL31	F31SL51	F31SL81	F31SL91	10
16	4	F41SL11	F41SL21	F41SL31	F41SL51	F41SL81	F41SL91	10
16	5	F51SL11	F51SL21	F51SL31	F51SL51	F51SL81	F51SL91	10
32	3	F32SL11	F32SL21	F32SL31	F32SL51	F32SL81	F32SL91	10
32	4	F42SL11	F42SL21	F42SL31	F42SL51	F42SL81	F42SL91	10
32	5	F52SL11	F52SL21	F52SL31	F52SL51	F52SL81	F52SL91	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	70	70	70	70	70	70
c and d	56	56	56	56	56	56
e	21	21	21	23	23	23
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	113	128	150	164	181	213

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

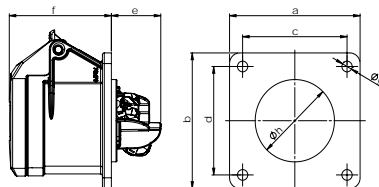
splash-proof IP44

- screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V101.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S101	F31S201	F31S301		F31S501	F31S801	F31S901	10
16	4	F41S101	F41S201	F41S301	F41S401	F41S501	F41S801	F41S901	10
16	5	F51S101	F51S201	F51S301		F51S501	F51S801	F51S901	10
32	3	F32S101	F32S201	F32S301		F32S501	F32S801	F32S901	10
32	4	F42S101	F42S201	F42S301	F42S401	F42S501	F42S801	F42S901	10
32	5	F52S101	F52S201	F52S301		F52S501	F52S801	F52S901	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	70	70	70	70	70	70
c and d	56	56	56	56	56	56
e	27	27	27	27	27	27
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	112	127	144	152	169	196



PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

splash-proof IP44

- screwless connection technology (plug2power)

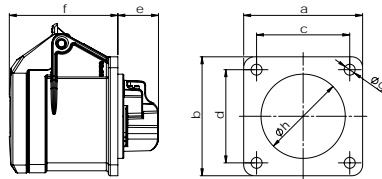
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V10.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL10	F31SL20	F31SL30	F31SL50	F31SL80	F31SL90	10
16	4	F41SL10	F41SL20	F41SL30	F41SL50	F41SL80	F41SL90	10
16	5	F51SL10	F51SL20	F51SL30	F51SL50	F51SL80	F51SL90	10
32	3	F32SL10	F32SL20	F32SL30	F32SL50	F32SL80	F32SL90	10
32	4	F42SL10	F42SL20	F42SL30	F42SL50	F42SL80	F42SL90	10
32	5	F52SL10	F52SL20	F52SL30	F52SL50	F52SL80	F52SL90	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4
AMPERE	16	

a and b	60	60
c and d	47	47
e	21	21
f	55	55
g	5,5	5,5
h	43	45
Weight [g/each]	105	120

plug^apower^b

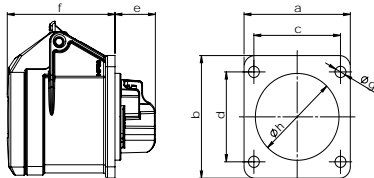
PANEL-MOUNTED SOCKET OUTLET, STRAIGHT splash-proof IP44

- ^a screw terminals
- ^b screwless terminals (plug2power)

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V102.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31S102	F31S202	F31S302		F31S502	F31S802	F31S902	10
16	4 ^a	F41S102	F41S202	F41S302	F41S402	F41S502	F41S802	F41S902	10
16	3 ^b	F31SL12	F31SL22	F31SL32		F31SL52	F31SL82	F31SL92	10
16	4 ^b	F41SL12	F41SL22	F41SL32		F41SL52	F41SL82	F41SL92	10



- a with flange 60 x 54 mm
- b with flange 55 x 55 mm
- c with flange 65 x 65 mm

POLES	3 ^a	3 ^b	3 ^c	4 ^c
AMPERE	16			

Flange a	54	55	65	65
Flange b	60	55	65	65
c and d	44	44	52	52
e	21	28	21	21
f	55	46	55	55
g	5,5	4,5	5,5	5,5
h	43	43	43	45
Weight [g/each]	103	120	109	124

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT splash-proof IP44

- screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V104.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

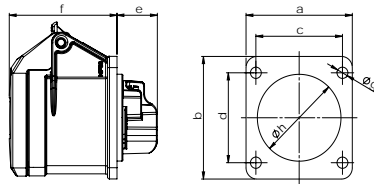
AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31S104	F31S204	F31S304		F31S504	F31S804	F31S904	10
16	3 ^b	F31S103	F31S203	F31S303		F31S503	F31S803	F31S903	10
16	3 ^c	F31S105	F31S205	F31S305		F31S505	F31S805	F31S905	10
16	4 ^c	F41S105	F41S205	F41S305	F41S405	F41S505	F41S805	F41S905	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



plug2power



POLES	3^a	3^b	3^c
AMPERE	16		

Flange a	54	55	65
Flange b	60	55	65
c and d	44	44	52
e	21	28	21
f	55	46	55
g	5,5	4,5	5,5
h	43	43	43
Weight [g/each]	103	120	109

^a with flange 60 x 54 mm
^b with flange 55 x 55 mm

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

splash-proof IP44

- screwless connection technology (plug2power)

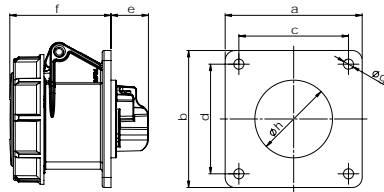
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31VL14.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31SL14	F31SL24	F31SL34	F31SL54	F31SL84	F31SL94	10
16	3 ^b	F31SL1B	F31SL2B	F31SL3B	F31SL5B	F31SL8B	F31SL9B	10
16	3 ^c	F31SL1K	F31SL2K	F31SL3K	F31SL5K	F31SL8K	F31SL9K	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	75	75	75	75	75	75
c and d	60	60	60	60	60	60
e	21	21	21	23	23	23
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	134	153	166	200	217	250

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

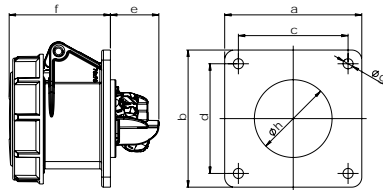
watertight IP67

· screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V150.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S150	F31S250	F31S350		F31S550	F31S850	F31S950	10
16	4	F41S150	F41S250	F41S350	F41S450	F41S550	F41S850	F41S950	10
16	5	F51S150	F51S250	F51S350		F51S550	F51S850	F51S950	10
32	3	F32S150	F32S250	F32S350		F32S550	F32S850	F32S950	10
32	4	F42S150	F42S250	F42S350	F42S450	F42S550	F42S850	F42S950	10
32	5	F52S150	F52S250	F52S350		F52S550	F52S850	F52S950	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	75	75	75	75	75	75
c and d	60	60	60	60	60	60
e	27	27	27	27	27	27
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	133	152	163	188	204	233



PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

watertight IP67

screwless connection technology (plug2power)

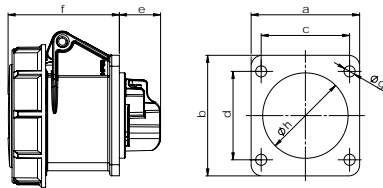
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31VL16.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL16	F31SL26	F31SL36	F31SL56	F31SL86	F31SL96	10
16	4	F41SL16	F41SL26	F41SL36	F41SL56	F41SL86	F41SL96	10
16	5	F51SL16	F51SL26	F51SL36	F51SL56	F51SL86	F51SL96	10
32	3	F32SL16	F32SL26	F32SL36	F32SL56	F32SL86	F32SL96	10
32	4	F42SL16	F42SL26	F42SL36	F42SL56	F42SL86	F42SL96	10
32	5	F52SL16	F52SL26	F52SL36	F52SL56	F52SL86	F52SL96	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



a with flange 60 x 54 mm
b with flange 60 x 60 mm
c with flange 70 x 70 mm

POLES	3 ^a	3 ^b	3 ^c
AMPERE	16		

Flange a	54	60	70
Flange b	60	60	70
Hole spacing c	44	47	56
Hole spacing d	44	47	56
e	21	21	21
f	55	55	55
g	5,5	5,5	5,5
h	43	43	43
Weight [g/each]	105	107	115

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

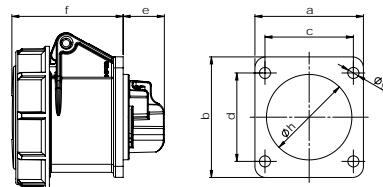
watertight IP67

· screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V154.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31S154	F31S254	F31S354	F31S554	F31S854	F31S954	10
16	3 ^b	F31S152	F31S252	F31S352	F31S552	F31S852	F31S952	10
16	3 ^c	F31S151	F31S251	F31S351	F31S551	F31S851	F31S951	10



a with flange 60 x 54 mm
b with flange 60 x 60 mm
c with flange 70 x 70 mm

POLES	3 ^a	3 ^b	3 ^c
AMPERE	16		

Flange a	54	60	70
Flange b	60	60	70
Hole spacing c	44	47	56
Hole spacing d	44	47	56
e	21	21	21
f	55	55	55
g	5,5	5,5	5,5
h	43	43	43
Weight [g/each]	105	107	115

plug2power

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

watertight IP67

· screwless connection technology (plug2power)

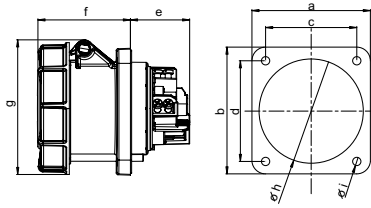
All panel-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V154.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31SL15	F31SL25	F31SL35	F31SL55	F31SL85	F31SL95	10
16	3 ^b	F31SL17	F31SL27	F31SL37	F31SL57	F31SL87	F31SL97	10
16	3 ^c	F31SL19	F31SL29	F31SL39	F31SL59	F31SL89	F31SL99	10

CEE PANEL-MOUNTED SOCKET OUTLETS, STRAIGHT

according to IEC 60309, EN 60309, VDE 0623



POLES	3 ^a	4 ^a	5 ^a	3 ^b	4 ^b	5 ^b
AMPERE	63			63		

Flange a	100	100	100	100	100	100
Flange b	100	100	100	107	107	107
Hole spacing c	80	80	80	77	77	77
Hole spacing d	80	80	80	85	85	85
e	50	50	50	50	50	50
f	80	80	80	80	80	80
g	114	114	114	114	114	114
h	85	85	85	85	85	85
i	7	7	7	7	7	7
Weight [g/each]	490	522	668	496	528	674

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

watertight IP67

- HighPower version
- with pilot contact
- screw terminals

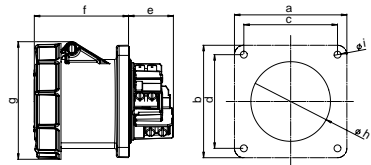
splash-proof IP44 upon request

^a with flange 100 x 100 mm

^b with flange 107 x 100 mm

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3 ^a	F33S157	F33S257	F33S357		F33S557	F33S857	F33S957		2
63	4 ^a	F43S157	F43S257	F43S357	F43S457	F43S557	F43S857	F43S957		2
63	5 ^a	F53S157	F53S257	F53S357		F53S557	F53S857	F53S957		2
63	3 ^b	F33S156	F33S256	F33S356		F33S556	F33S856	F33S956		2
63	4 ^b	F43S156	F43S256	F43S356	F43S456	F43S556	F43S856	F43S956		2
63	5 ^b	F53S156	F53S256	F53S356		F53S556	F53S856	F53S956		2



POLES	3	4	5
AMPERE	125		

a and b	120	120	120
c and d	100	100	100
e	48	48	48
f	101	101	101
g	126	126	126
h	90	90	90
i	8	8	8
Weight [g/each]	743	879	974

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

watertight IP67

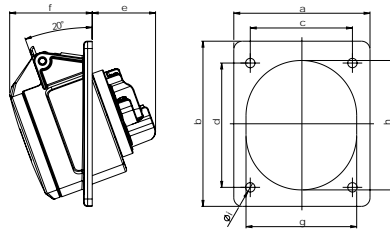
- HighPower version
- with pilot contact
- screw terminals

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLE	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
125	3	F34S157	F34S257	F34S357		F34S557	F34S857	F34S957		2
125	4	F44S157	F44S257	F44S357	F44S457	F44S557	F44S857	F44S957		2
125	5	F54S157	F54S257	F54S357		F54S557	F54S857	F54S957		2

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

Flange a	70	70	80	80	80	80
Flange b	85	85	97	97	97	97
Hole spacing c	50	50	60	60	60	60
Hole spacing d	65	65	73	73	73	73
e	38	38	39	51	51	51
f	47	47	48	50	50	52
g	51	56	65	65	65	70
h	61	67	76	75	75	80
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	112	117	144	198	222	250

PANEL-MOUNTED SOCKET OUTLET, ANGLED 20°

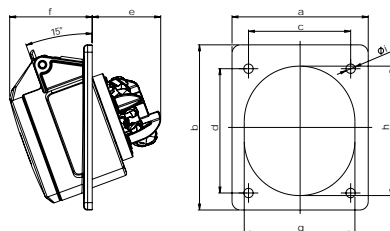
splash-proof IP44

· screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V120.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S120	F31S220	F31S320		F31S520	F31S820	F31S920	10
16	4	F41S120	F41S220	F41S320	F41S420	F41S520	F41S820	F41S920	10
16	5	F51S120	F51S220	F51S320		F51S520	F51S820	F51S920	10
32	3	F32S120	F32S220	F32S320		F32S520	F32S820	F32S920	10
32	4	F42S120	F42S220	F42S320	F42S420	F42S520	F42S820	F42S920	10
32	5	F52S120	F52S220	F52S320		F52S520	F52S820	F52S920	10



POLES	3	4
AMPERE	16	

Flange a	70	70
Flange b	85	85
Hole spacing c	50	50
Hole spacing d	65	65
e	41	41
f	47	47
g	51	56
h	61	67
i	5,5	5,5
Weight [g/each]	111	116

plug2power

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15°

splash-proof IP44

· screwless connection technology (plug2power)

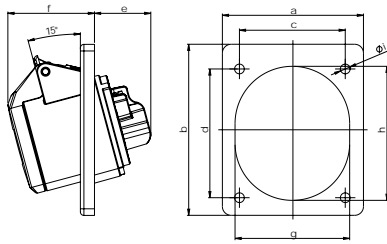
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31VL13.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL13	F31SL23	F31SL33	F31SL53	F31SL83	F31SL93	10
16	4	F41SL13	F41SL23	F41SL33	F41SL53	F41SL83	F41SL93	10

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



plug2power^b

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15°

splash-proof IP44

- a screw terminals
- b screwless terminals (plug2power)

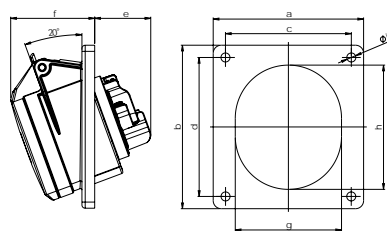
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V231.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31S131	F31S231	F31S331		F31S531	F31S831	F31S931	10
16	4 ^a	F41S131	F41S231	F41S331	F41S431	F41S531	F41S831	F41S931	10
16	3 ^b	F31SL1C	F31SL2C	F31SL3C		F31SL5C	F31SL8C	F31SL9C	10
16	4 ^b	F41SL1C	F41SL2C	F41SL3C		F41SL5C	F41SL8C	F41SL9C	10
16	5 ^b	F51SL1C	F51SL2C	F51SL3C		F51SL5C	F51SL8C	F51SL9C	10
32	3 ^b	F32SL1C	F32SL2C	F32SL3C		F32SL5C	F32SL8C	F32SL9C	10
32	4 ^b	F42SL1C	F42SL2C	F42SL3C		F42SL5C	F42SL8C	F42SL9C	10
32	5 ^b	F52SL1C	F52SL2C	F52SL3C		F52SL5C	F52SL8C	F52SL9C	10

POLES	3 ^a	4 ^a	3 ^b	4 ^b	5 ^b	3 ^b	4 ^b	5 ^b
AMPERE	16		16			32		

Flange a	80	80	80	80	80	80	80	80
Flange b	97	97	97	97	97	97	97	97
Hole spacing c	60	60	60	60	60	60	60	60
Hole spacing d	73	73	73	73	73	73	73	73
e	30	33	30	33	41	48	48	48
f	49	49	49	49	48	50	50	52
g	70	70	70	70	65	65	65	70
h	77	77	77	77	76	75	75	80
i	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	116	136	116	136	138	186	210	233



PANEL-MOUNTED SOCKET OUTLET, ANGLED 20°

splash-proof IP44

- screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F51V133.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

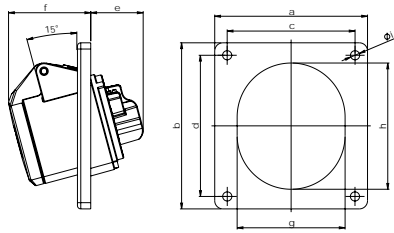
AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	5	F51S133	F51S233	F51S333	F51S533	F51S833	F51S933	10
32	5	F52S133	F52S233	F52S333	F52S533	F52S833	F52S933	10

POLES	5	5
AMPERE	16	32

Flange a	92	92
Flange b	100	100
Hole spacing c	77	77
Hole spacing d	85	85
e	36	41
f	49	59
g	70	77
h	77	88
i	5,5	5,5
Weight [g/each]	175	247

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	3	4
AMPERE	16		32	

Flange a	92	92	92	92
Flange b	100	100	100	100
Hole spacing c	77	77	77	77
Hole spacing d	85	85	85	85
e	30	33	38	38
f	49	49	59	59
g	70	70	77	77
h	77	77	88	88
i	5,5	5,5	5,5	5,5
Weight [g/each]	121	141	195	219

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15°

splash-proof IP44

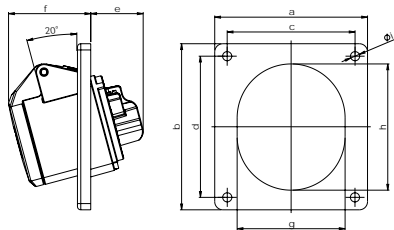
- screw terminals
- in three parts

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

All panel-mounted socket outlets are also available with **nickelplated** contacts.

Add a "V" instead of the "S" to the article number e.g. F31V133.

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S133	F31S233	F31S333		F31S533	F31S833	F31S933	10
16	4	F41S133	F41S233	F41S333	F41S433	F41S533	F41S833	F41S933	10
32	3	F32S133	F32S233	F32S333		F32S533	F32S833	F32S933	10
32	4	F42S133	F42S233	F42S333	F42S433	F42S533	F42S833	F42S933	10



POLES	3	4	5	3	4	5
AMPERE	16			32		

Flange a	92	92	92	92	92	92
Flange b	100	100	100	100	100	100
Hole spacing c	77	77	77	77	77	77
Hole spacing d	85	85	85	85	85	85
e	30	33	38	38	38	45
f	49	49	49	59	59	59
g	70	70	70	77	77	77
h	77	77	77	88	88	88
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	121	141	169	195	219	230



PANEL-MOUNTED SOCKET OUTLET, ANGLED 20°

splash-proof IP44

- screwless connection technology (plug2power)
- in three parts

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

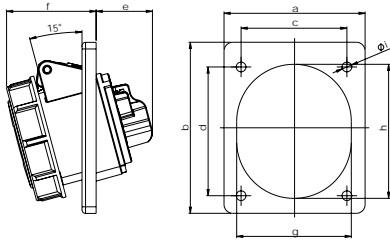
All panel-mounted socket outlets are also available with **nickelplated** contacts.

Add a "V" instead of the "S" to the article number e.g. F31VL1F.

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL1F	F31SL2F	F31SL3F	F31SL5F	F31SL8F	F31SL9F	10
16	4	F41SL1F	F41SL2F	F41SL3F	F41SL5F	F41SL8F	F41SL9F	10
16	5	F51SL1F	F51SL2F	F51SL3F	F51SL5F	F51SL8F	F51SL9F	10
32	3	F32SL1F	F32SL2F	F32SL3F	F32SL5F	F32SL8F	F32SL9F	10
32	4	F42SL1F	F42SL2F	F42SL3F	F42SL5F	F42SL8F	F42SL9F	10
32	5	F52SL1F	F52SL2F	F52SL3F	F52SL5F	F52SL8F	F52SL9F	10

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



PANEL-MOUNTED SOCKET OUTLET, ANGLED 15° watertight IP67

- screw terminals
- in three parts

All panel-mounted socket outlets are also available with **nickelplated** contacts.

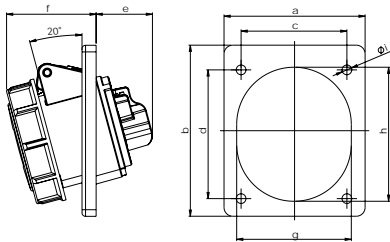
Add a "V" instead of the "S" to the article number e.g. F31V181.

POLES	3	4
AMPERE	16	

Flange a	80	80
Flange b	97	97
Hole spacing c	60	60
Hole spacing d	73	73
e	30	33
f	54	54
g	70	70
h	77	77
i	5,5	5,5
Weight [g/each]	157	174

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S181	F31S281	F31S381		F31S581	F31S881	F31S981	10
16	4	F41S181	F41S281	F41S381	F41S481	F41S581	F41S881	F41S981	10



plug²power

PANEL-MOUNTED SOCKET OUTLET, ANGLED 20° watertight IP67

- screwless connection technology (plug2power)
- in three parts

All panel-mounted socket outlets are also available with **nickelplated** contacts.

Add a "V" instead of the "S" to the article number e.g. F31V11D.

POLES	3	4	5	3	4	5
AMPERE	16			32		

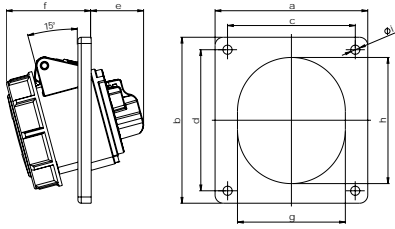
Flange a	80	80	80	80	80	80
Flange b	97	97	97	97	97	97
Hole spacing c	60	60	60	60	60	60
Hole spacing d	73	73	73	73	73	73
e	30	33	39	51	51	51
f	54	54	54	60	60	61
g	70	70	65	65	65	70
h	77	77	76	75	75	80
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	157	174	168	224	248	278

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL1D	F31SL2D	F31SL3D	F31SL5D	F31SL8D	F31SL9D	10
16	4	F41SL1D	F41SL2D	F41SL3D	F41SL5D	F41SL8D	F41SL9D	10
16	5	F51SL1D	F51SL2D	F51SL3D	F51SL5D	F51SL8D	F51SL9D	10
32	3	F32SL1D	F32SL2D	F32SL3D	F32SL5D	F32SL8D	F32SL9D	10
32	4	F42SL1D	F42SL2D	F42SL3D	F42SL5D	F42SL8D	F42SL9D	10
32	5	F52SL1D	F52SL2D	F52SL3D	F52SL5D	F52SL8D	F52SL9D	10

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



POLES	3	4	5	3	4	5
AMPERE	16			32		

Flange a	92	92	92	92	92	92
Flange b	100	100	100	100	100	100
Hole spacing c	77	77	77	77	77	77
Hole spacing d	85	85	85	85	85	85
e	30	33	36	38	38	41
f	54	54	54	65	65	65
g	70	70	70	77	77	77
h	77	77	77	88	88	88
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	152	172	206	226	250	278

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15° watertight IP67

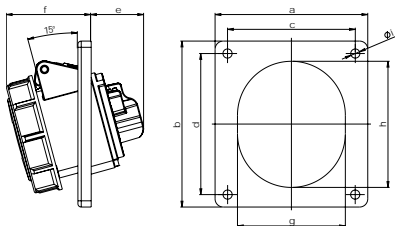
- screw terminals
- in three parts

All panel-mounted socket outlets are also available with **nickelplated** contacts.

Add a "V" instead of the "S" to the article number e.g. F31V183.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S183	F31S283	F31S383		F31S583	F31S883	F31S983		10
16	4	F41S183	F41S283	F41S383	F41S483	F41S583	F41S883	F41S983		10
16	5	F51S183	F51S283	F51S383		F51S583	F51S883	F51S983		10
32	3	F32S183	F32S283	F32S383		F32S583	F32S883	F32S983		10
32	4	F42S183	F42S283	F42S383	F42S483	F42S583	F42S883	F42S983		10
32	5	F52S183	F52S283	F52S383		F52S583	F52S883	F52S983		10



POLES	3	4	5	3	4	5
AMPERE	16			32		

Flange a	92	92	92	92	92	92
Flange b	100	100	100	100	100	100
Hole spacing c	77	77	77	77	77	77
Hole spacing d	85	85	85	85	85	85
e	30	33	36	38	38	41
f	54	54	54	65	65	65
g	70	70	70	77	77	77
h	77	77	77	88	88	88
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	152	172	206	226	250	278

plug2power

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15° watertight IP67

- screwless connection technology (plug2power)
- in three parts

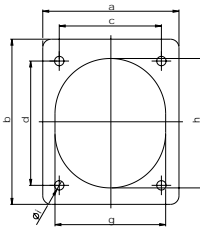
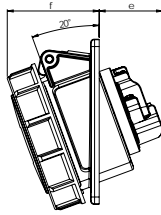
All panel-mounted socket outlets are also available with **nickelplated** contacts.
Add a "V" instead of the "S" to the article number e.g. F31VL1G.

VOLTAGE	110 V~	230 V~	400 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31SL1G	F31SL2G	F31SL3G	F31SL5G	F31SL8G	F31SL9G		10
16	4	F41SL1G	F41SL2G	F41SL3G	F41SL5G	F41SL8G	F41SL9G		10
16	5	F51SL1G	F51SL2G	F51SL3G	F51SL5G	F51SL8G	F51SL9G		10
32	3	F32SL1G	F32SL2G	F32SL3G	F32SL5G	F32SL8G	F32SL9G		10
32	4	F42SL1G	F42SL2G	F42SL3G	F42SL5G	F42SL8G	F42SL9G		10
32	5	F52SL1G	F52SL2G	F52SL3G	F52SL5G	F52SL8G	F52SL9G		10

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



plug^apower^b

POLES	3 ^a	4 ^a	5 ^a	3 ^a	4 ^a	5 ^a	3 ^b	4 ^b
AMPERE	16			32			16	

Flange a	70	70	80	80	80	80	70	70
Flange b	85	85	97	97	97	97	85	85
Hole spacing c	50	50	60	60	60	60	50	50
Hole spacing d	65	65	73	73	73	73	65	65
e	38	38	39	51	51	51	38	38
f	49	50	54	60	60	61	49	50
g	51	56	65	65	65	70	51	56
h	61	67	76	75	75	80	61	67
i	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	124	141	168	224	248	278	124	141

PANEL-MOUNTED SOCKET OUTLET, ANGLED 20°

watertight IP67

- ^a screw terminals
- ^b screwless terminals (plug2power)

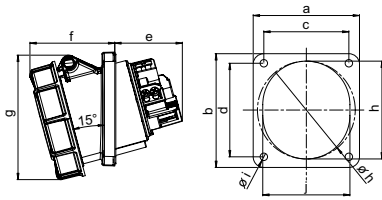
All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V270.

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3 ^a	F31S170	F31S270	F31S370		F31S570	F31S870	F31S970	10
	4 ^a	F41S170	F41S270	F41S370	F41S470	F41S570	F41S870	F41S970	10
	5 ^a	F51S170	F51S270	F51S370		F51S570	F51S870	F51S970	10
32	3 ^a	F32S170	F32S270	F32S370		F32S570	F32S870	F32S970	10
	4 ^a	F42S170	F42S270	F42S370	F42S470	F42S570	F42S870	F42S970	10
	5 ^a	F52S170	F52S270	F52S370		F52S570	F52S870	F52S970	10
16	3 ^b	F31SL18	F31SL28	F31SL38		F31SL58	F31SL88	F31SL98	10
	4 ^b	F41SL18	F41SL28	F41SL38		F41SL58	F41SL88	F41SL98	10

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



POLES	3 ^a	4 ^a	5 ^a	3 ^b	4 ^b	5 ^b	3 ^c	4 ^c	5 ^c
AMPERE	63			63			63		

Flange a	100	100	100	100	100	100	106	106	106
Flange b	112	112	112	107	107	107	110	110	110
Hole spacing c	80	80	80	77	77	77	90	90	90
Hole spacing d	88	88	88	85	85	85	90	90	90
e	64	64	64	64	64	64	64	64	64
f	80	80	80	80	80	80	80	80	80
g	119	119	119	119	119	119	119	119	119
h	92	92	92	92	92	92	92	92	92
i	7	7	7	7	7	7	7	7	7
j	82	82	82	82	82	82	82	82	82
Weight [g/each]	498	529	675	494	525	671	500	532	678

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15° watertight IP67

- HighPower version
- with pilot contact
- screw terminals

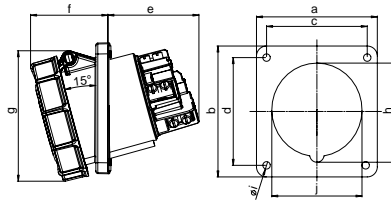
^a with flange 112 x 100 mm
^b with flange 107 x 100 mm
^c with flange 110 x 106 mm

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
63	3 ^a	F33S186	F33S286	F33S386		F33S586	F33S886	F33S986	2
63	4 ^a	F43S186	F43S286	F43S386	F43S486	F43S586	F43S886	F43S986	2
63	5 ^a	F53S186	F53S286	F53S386		F53S586	F53S886	F53S986	2
63	3 ^b	F33S184	F33S284	F33S384		F33S584	F33S884	F33S984	2
63	4 ^b	F43S184	F43S284	F43S384	F43S484	F43S584	F43S884	F43S984	2
63	5 ^b	F53S184	F53S284	F53S384		F53S584	F53S884	F53S984	2
63	3 ^c	F33S185	F33S285	F33S385		F33S585	F33S885	F33S985	2
63	4 ^c	F43S185	F43S285	F43S385	F43S485	F43S585	F43S885	F43S985	2
63	5 ^c	F53S185	F53S285	F53S385		F53S585	F53S885	F53S985	2

CEE PANEL-MOUNTED SOCKET OUTLETS, ANGLED

according to IEC 60309, EN 60309, VDE 0623



POLES	3 ^a	4 ^a	5 ^a	3 ^b	4 ^b	5 ^b
AMPERE	125			125		

Flange a	120	120	120	114	114	114
Flange b	130	130	130	114	114	114
Hole spacing c	100	100	100	90	90	90
Hole spacing d	108	108	108	90	90	90
e	92	92	92	92	92	92
f	77	77	77	77	77	77
g	130	130	130	130	130	130
h	102	102	102	102	102	102
i	7	7	7	7	7	7
j	90	90	90	90	90	90
Weight [g/each]	804	892	999	792	880	987

PANEL-MOUNTED SOCKET OUTLET, ANGLED 15°

watertight IP67

- HighPower version
- with pilot contact
- screw terminals

^a with flange 130 x 120 mm

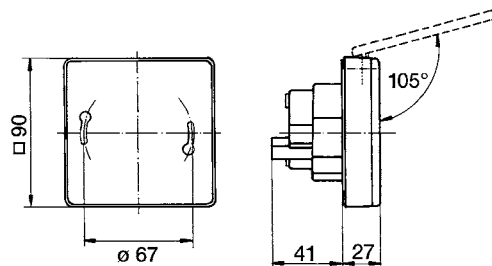
^b with flange 114 x 114 mm

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~	>50-500 V~	>50-500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	100-300 Hz	301-500 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h	10h	2h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
125	3 ^a	F34S187	F34S287	F34S387		F34S587	F34S887	F34S987	2
125	4 ^a	F44S187	F44S287	F44S387	F44S487	F44S587	F44S887	F44S987	2
125	5 ^a	F54S187	F54S287	F54S387		F54S587	F54S887	F54S987	2
125	3 ^b	F34S188	F34S288	F34S388		F34S588	F34S888	F34S988	2
125	4 ^b	F44S188	F44S288	F44S388	F44S488	F44S588	F44S888	F44S988	2
125	5 ^b	F54S188	F54S288	F54S388		F54S588	F54S888	F54S988	2

CEE FLUSH-MOUNTED SOCKET OUTLET

according to IEC 60309, EN 60309, VDE 0623



VOLTAGE	400 V~
FREQUENCY	50/60 Hz
DESIGNATION	6h

AMPERE	POLES	ARTICLE NO.	PA-CKING UNIT
16	5	D 51.33	10

Weight: 183 g/each

CEE FLUSH-MOUNTED SOCKET OUTLET

splash-proof IP44

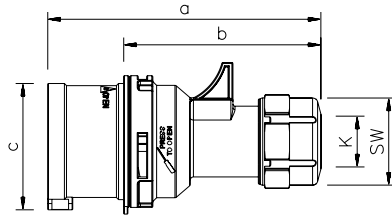
shipment: with in-wall box

EVENTLINE

according to IEC 60309, EN 60309, VDE 0623



turn2fix



PLUG, BLACK

splash-proof IP44

- screw terminals
- quick release locking system (turn2fix)

All plugs are also available with **nickel-plated** contacts. Add a "V" instead of the second "S" to the article number e.g. S31V20B.

POLES	3	4	5	3	4	5
AMPERE	16			32		

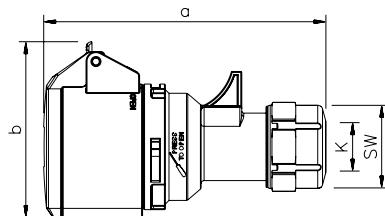
a	118	124	131	146	146	152
b	82	88	95	100	100	106
c	47	53	61	63	63	70
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	104	127	150	181	200	230

VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	S31S20B		10
16	4		S41S30B	10
16	5		S51S30B	10
32	3	S32S20B		10
32	4		S42S30B	10
32	5		S52S30B	10



turn2fix



CONNECTOR, BLACK

splash-proof IP44

- hinged lid with thumb grip
- screw terminals
- quick release locking system (turn2fix)

All connectors are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. K31V20B.

POLES	3	4	5	3	4	5
AMPERE	16			32		

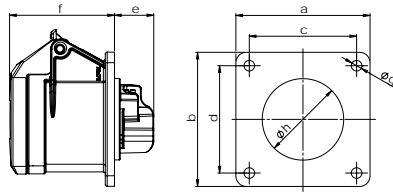
a	129	135	142	159	159	165
b	76	80	89	92	92	98
K	6-15	6-15	8-16	10-20	10-20	12-22
SW	38	38	42	50	50	50
Weight [g/each]	137	161	183	225	244	278

VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	K31S20B		10
16	4		K41S30B	10
16	5		K51S30B	10
32	3	K32S20B		10
32	4		K42S30B	10
32	5		K52S30B	10

EVENTLINE

according to IEC 60309, EN 60309, VDE 0623



PANEL-MOUNTED SOCKET OUTLET, STRAIGHT, BLACK

splash-proof IP44

- screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts.

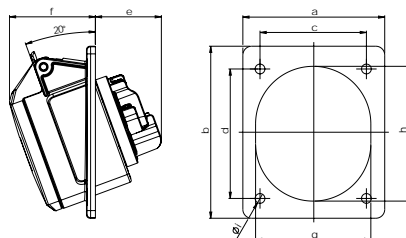
Add a "V" instead of the "S" to the article number e.g. F31V20B.

POLES	3	4	5	3	4	5
AMPERE	16			32		

a and b	70	70	70	70	70	70
c and d	56	56	56	56	56	56
e	21	21	21	23	23	23
f	55	55	55	67	67	67
g	5,5	5,5	5,5	5,5	5,5	5,5
h	43	45	55	55	55	58
Weight [g/each]	113	128	150	164	181	213

VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S20B		10
16	4		F41S30B	10
16	5		F51S30B	10
32	3	F32S20B		10
32	4		F42S30B	10
32	5		F52S30B	10



PANEL-MOUNTED SOCKET OUTLET, ANGLED 20°, BLACK

splash-proof IP44

- screw terminals

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F31V22B.

POLES	3	4	5	3	4	5
AMPERE	16			32		

Flange a	70	70	80	80	80	80
Flange b	85	85	97	97	97	97
Hole spacing c	50	50	60	60	60	60
Hole spacing d	65	65	73	73	73	73
e	38	38	39	51	51	51
f	47	47	48	50	50	52
g	51	56	65	65	65	70
h	61	67	76	75	75	80
i	5,5	5,5	5,5	5,5	5,5	5,5
Weight [g/each]	112	117	144	198	222	250

VOLTAGE	230 V~	400 V~
FREQUENCY	50/60 Hz	50/60 Hz
DESIGNATION	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F31S22B		10
16	4		F41S32B	10
16	5		F51S32B	10
32	3	F32S22B		10
32	4		F42S32B	10
32	5		F52S32B	10

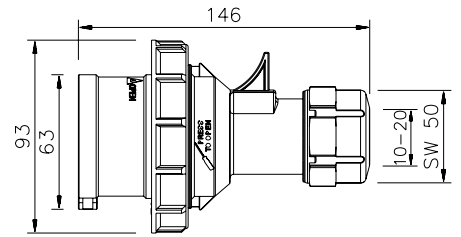
CEE CONTAINER PLUGS AND SOCKET OUTLETS



CONTAINER PLUG

- watertight IP67
- screw terminals
 - quick release locking system (turn2fix)
 - 32A 4p 3h 440V
 - nickel-plated contacts

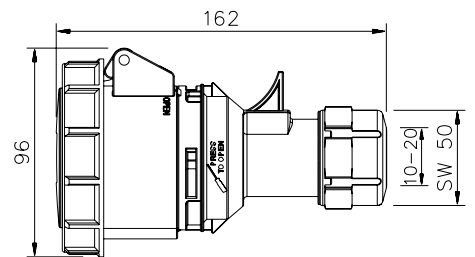
Packing unit: 10 pieces
Article no. S42V05



CONTAINER CONNECTOR

- watertight IP67
- screw terminals
 - quick release locking system (turn2fix)
 - 32A 4p 3h 440V
 - nickel-plated contacts

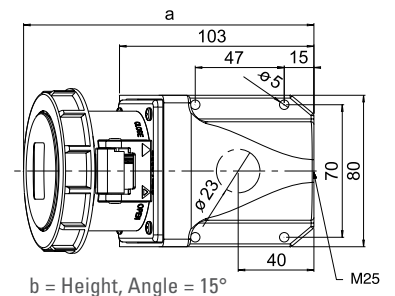
Packing unit: 10 pieces
Article no. K42V05



CONTAINER WALL-MOUNTED SOCKET OUTLET

- watertight IP67
- screw terminals
 - quick release locking system (turn2fix)
 - 32A 4p 3h 440V
 - nickel-plated contacts

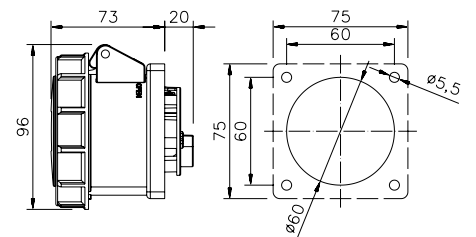
Packing unit: 5 pieces
Article no. D42V05



CONTAINER PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

- watertight IP67
- screw terminals
 - quick release locking system (turn2fix)
 - 32A 4p 3h 440V
 - nickel-plated contacts

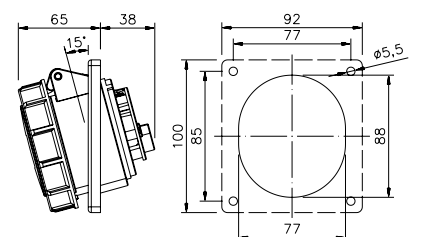
Packing unit: 10 pieces
Article no. F42V050



CONTAINER PANEL-MOUNTED SOCKET OUTLET, ANGLED

- watertight IP67
- screw terminals
 - quick release locking system (turn2fix)
 - 32A 4p 3h 440V

Packing unit: 10 pieces
Article no. F42V083



CEE CONTAINER WALL-MOUNTED SOCKET OUTLETS



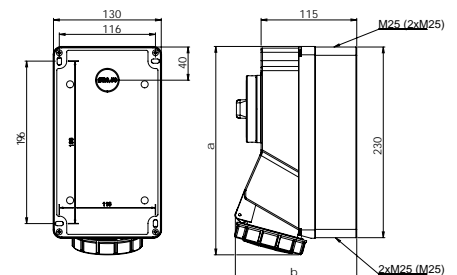
- PC / ABS casing
- Nickel-plated contacts
- wall-mounted shipping container socket outlets with windows for 5 modules (cap installation Size: 45 mm)
- Mechanical locking: after inserting the plug and switching on, the plug is locked after switching off and removing the plug, the switch is locked
- All modules are mounted on one base
- Large space for wiring
- Wiring can be looped through
- Wired
- Can be locked in the OFF position with a padlock (4 mm)
- Reverse configuration (switch below, window above) available upon request



CONTAINER WALL-MOUNTED SOCKET OUTLET

- watertight IP67
- 32A 4p 3h 440V
 - nickel-plated contacts
 - up to 3 x M25
 - with mechanical locking
 - lockable with padlock

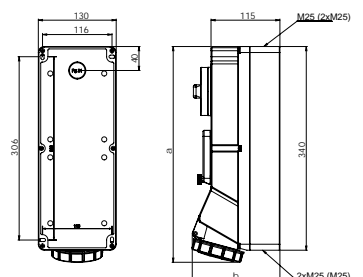
Packing unit: 1 piece
Article no. C42S052



CONTAINER WALL-MOUNTED SOCKET OUTLET

- watertight IP67
- 32A 4p 3h 440V
 - nickel-plated contacts
 - with fuse element D02-3p 440V
 - up to 3 x M25
 - with mechanical locking
 - lockable with padlock

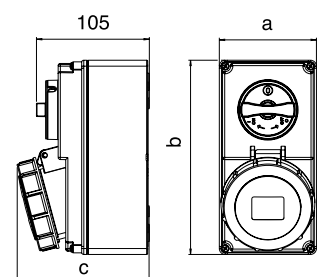
Packing unit: 1 piece
Article no. C42S070



CONTAINER WALL-MOUNTED SOCKET OUTLET

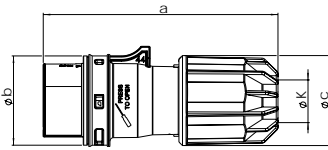
- watertight IP67
- 32A 4p 3h 440V
 - with mechanical locking
 - lockable with padlock

Packing unit: 1 piece
Article no. C42S051



CEE LOW-VOLTAGE PLUGS AND SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	2	3	2	3
AMPERE	16		32	

a	135	135	135	135
b	51	51	51	51
c	51	51	51	51
K	8-24	8-24	8-24	8-24
Weight [g/each]	142	154	142	154



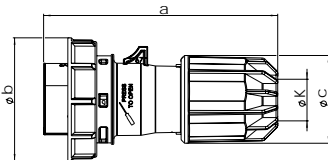
PLUG

splash-proof IP44

- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V=
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ		DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H		10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	S01S20	S01S60	S01S10	S01S90	S01S00	S01S40	S01S80		10
16	3	S11S20	S11S60	S11S10	S11S90	S11S00	S11S40	S11S80		10
32	2	S02S20	S02S60	S02S10	S02S90	S02S00	S02S40	S02S80		10
32	3	S12S20	S12S60	S12S10	S12S90	S12S00	S12S40	S12S80		10



POLES	2	3	2	3
AMPERE	16		32	

a	135	135	135	135
b	71	71	71	71
c	51	51	51	51
K	8-24	8-24	8-24	8-24
Weight [g/each]	157	169	157	169



PLUG

watertight IP67

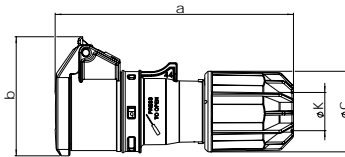
- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V=
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ		DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H		10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	S01S25	S01S65	S01S15	S01S95	S01S05	S01S45	S01S85		10
16	3	S11S25	S11S65	S11S15	S11S95	S11S05	S11S45	S11S85		10
32	2	S02S25	S02S65	S02S15	S02S95	S02S05	S02S45	S02S85		10
32	3	S12S25	S12S65	S12S15	S12S95	S12S05	S12S45	S12S85		10

CEE LOW-VOLTAGE PLUGS AND SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	2	3	2	3
AMPERE	16		32	

a	150	150	150	150
b	75	75	75	75
c	51	51	51	51
K	8-24	8-24	8-24	8-24
Weight [g/each]	177	196	177	196



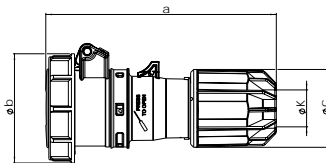
CONNECTOR

splash-proof IP44

- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V=
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	K01S20	K01S60	K01S10	K01S90	K01S00	K01S40	K01S80	10
16	3	K11S20	K11S60	K11S10	K11S90	K11S00	K11S40	K11S80	10
32	2	K02S20	K02S60	K02S10	K02S90	K02S00	K02S40	K02S80	10
32	3	K12S20	K12S60	K12S10	K12S90	K12S00	K12S40	K12S80	10



POLES	2	3	2	3
AMPERE	16		32	

a	150	150	150	150
b	78	78	78	78
c	51	51	51	51
K	8-24	8-24	8-24	8-24
Weight [g/each]	195	214	195	214



CONNECTOR

watertight IP67

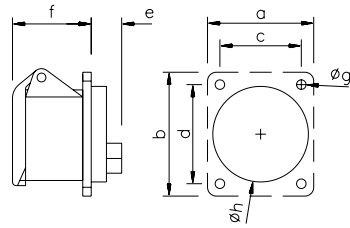
- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V=
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	K01S25	K01S65	K01S15	K01S95	K01S05	K01S45	K01S85	10
16	3	K11S25	K11S65	K11S15	K11S95	K11S05	K11S45	K11S85	10
32	2	K02S25	K02S65	K02S15	K02S95	K02S05	K02S45	K02S85	10
32	3	K12S25	K12S65	K12S15	K12S95	K12S05	K12S45	K12S85	10

CEE LOW-VOLTAGE PLUGS AND SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	2	2
AMPERE	16	32

Flange a	60	60
Flange b	70	70
Hole spacing c	47	47
Hole spacing d	53	53
e	19	19
f	28	28
g	5	5
h	43	43
Weight [g/each]	112	112

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

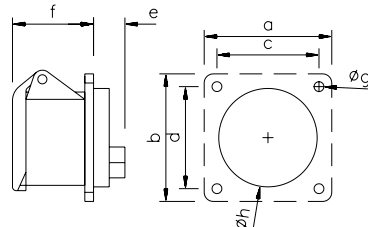
splash-proof IP44

All panel-mounted socket outlets are also available with **nickelplated** contacts.

Add a "V" instead of the "S" to the article number e.g. F01V202.

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC	DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H	10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	F01S202	F01S602	F01S102	F01S902	F01S002	F01S402	F01S802	10
32	2	F02S202	F02S602	F02S102	F02S902	F02S002	F02S402	F02S802	10



POLES	3	3
AMPERE	16	32

a and b	55	55
c and d	41	41
e	19	19
f	45	45
g	5	5
h	43	43
Weight [g/each]	132	132

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

splash-proof IP44

All panel-mounted socket outlets are also available with **nickelplated** contacts.

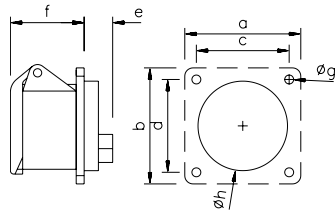
Add a "V" instead of the "S" to the article number e.g. F11V204.

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC	DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H	10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	3	F11S204	F11S604	F11S104	F11S904	F11S004	F11S404	F11S804	10
32	3	F12S204	F12S604	F12S104	F12S904	F12S004	F12S404	F12S804	10

CEE LOW-VOLTAGE PLUGS AND SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



POLES	2	3	2	3
AMPERE	16		32	

a and b	55	55	55	55
c and d	45	45	45	45
e	19	19	19	19
f	41	41	41	41
g	5	5	5	5
h	43	43	43	43
Weight [g/each]	112	132	112	132

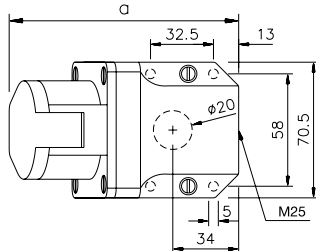
PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

splash-proof IP44

All panel-mounted socket outlets are also available with **nickelplated** contacts. Add a "V" instead of the "S" to the article number e.g. F01V203.

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC	
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H	

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	F01S203	F01S603	F01S103	F01S903	F01S003	F01S403	F01S803	10
16	3	F11S203	F11S603	F11S103	F11S903	F11S003	F11S403	F11S803	10
32	2	F02S203	F02S603	F02S103	F02S903	F02S003	F02S403	F02S803	10
32	3	F12S203	F12S603	F12S103	F12S903	F12S003	F12S403	F12S803	10



POLES	2	3	2	3
AMPERE	16		32	

a	119	119	119	119
b	84,5	84,5	84,5	84,5
Weight [g/each]	194	214	194	214

b = Height,
Angle = 15°

WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

· cable entry above, below or behind

All wall-mounted socket outlets are also available with **nickel-plated** contacts. Add a "V" instead of the "S" to the article number e.g. D01V20.

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC	
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H	

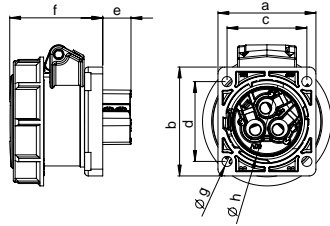
AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	D01S20	D01S60	D01S10	D01S90	D01S00	D01S40	D01S80	10
16	3	D11S20	D11S60	D11S10	D11S90	D11S00	D11S40	D11S80	10
32	2	D02S20	D02S60	D02S10	D02S90	D02S00	D02S40	D02S80	10
32	3	D12S20	D12S60	D12S10	D12S90	D12S00	D12S40	D12S80	10

CEE LOW-VOLTAGE PLUGS AND SOCKET OUTLETS

according to IEC 60309, EN 60309, VDE 0623



turn2fix



POLES	2	3	2	3
AMPERE	16		32	

a	54	54	54	54
b	60	60	60	60
c	44	44	44	44
d	44	44	44	44
e	16	16	16	16
f	51	51	51	51
g	6	6	6	6
h	42	42	42	42
Weight [g/each]	137	156	137	156

PANEL-MOUNTED SOCKET OUTLET, STRAIGHT

watertight IP67

- screw terminals
- quick release locking system (turn2fix)
- nickel-plated contacts

VOLTAGE	24 V~	42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V~	24/42 V=
FREQUENCY	50/60 HZ	50/60 HZ	100-200 HZ	300 HZ	400 HZ	401-500 HZ	DC
DESIGNATION	WITHOUT AUXILIARY NOTCH	12H	4H	2H	3H	11H	10H

AMPERE	POLES	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	ARTICLE NO.	PACKING UNIT
16	2	F01S254	F01S654	F01S154	F01S954	F01S054	F01S454	F01S854	10
		F11S254	F11S654	F11S154	F11S954	F11S054	F11S454	F11S854	
32	2	F02S254	F02S654	F02S154	F02S954	F02S054	F02S454	F02S854	10
		F12S254	F12S654	F12S154	F12S954	F12S054	F12S454	F12S854	

CEE PLUGS AND SOCKETS

according to IEC 60309, EN 60309, VDE 0623

Only round plug connections in accordance with VDE 0623 are permitted as three-phase plug connections according to VDE 0100-550. Exceptions: domestic installations, sewing halls, laboratories and such (PERILEX is still used in such facilities).

At camping sites and boat moorings as well as connections for caravans, round plug connections acc. to VDE 0623 in type EN 60309-2 are required according to VDE 0100-721. This is also valid for show-type vehicles and caravans.

For alternating-current networks on construction sites, round plug connections according to VDE 0623 in type EN 60309-2 are required in addition to the SCHUKO plug connections for difficult conditions. This is also true for agricultural premises.

Round plug connections in UL versions according to UL 1682/86 are available upon request!

Clock face position of the protective contact and colour indicator Viewed from the front of the connector sockets to the contact socket

	4 h	9 h	6 h	11 h	7 h	5 h	12 h	1 h	10 h	2 h	3 h	8 h
FREQUENCY (Hz)	50-60	50-60	50-60	60	50-60	50-60	50-60	-	100-300	OVER 300 TO 500	50-60	
VOLTAGE (V)	57/100 TO 75/130	120/208 TO 144/250	200/346 TO 240/415	250/400 TO 265/460	277/480 TO 288/500	347/600 TO 400/690		OVER 50	OVER 50	OVER 50	220/380 TO 250/440 16 + 32 A	
5-pole 3-pole + N + ⊕												
VOLTAGE (V)	100-130	200-250	380-415	440-460	480-500	600-690	VOLTAGE ACCORDING TO ISOLATING TRANSFORMER*		OVER 50	OVER 50	380-440 ONLY FOR 16 + 32 A ¹⁾	
4-pole 3-pole + ⊕												
VOLTAGE (V)	100-130	380-415	200-250		480-500	277*	VOLTAGE ACCORDING TO ISOLATING TRANSFORMER*		*		OVER 50 TO 250 DC	OVER 250 DC
3-pole 2-pole + ⊕												

63 A + 125 A plug connections with pilot contact

*) These versions are not part of the standards specified.
1) only for reefer container

The position of the auxiliary nose to the earth nose for voltages up to 50 V and frequencies up to 500 Hz and colour markings View from the front side of the connector sockets to the contact sockets

	-	12 h	4 h	2 h	3 h	11 h	10 h
FREQUENCY (Hz)	50-60	50-60	100-200	300	400	OVER 400 TO 500	DC
VOLTAGE (V)	20-25	40-50	40-50	UP TO 50	UP TO 50	UP TO 50	UP TO 50

2-pole						
3-pole						

CEE PLUGS AND SOCKETS

according to IEC 60309, EN 60309, VDE 0623

CEE17 Plug connection

The generally used term “CEE17 plug connection” is derived from the standardisation of the CEE Publication 17 from 1966 which is no longer valid.

For this, the requirements for plug connections for industrial purposes are described in the INTERNATIONAL COMMISSION ON RULES FOR THE APPROVAL OF ELECTRICAL EQUIPMENT (short CEE).

Standardisation IEC

Today, “CEE17 plug connections” for industrial use are internationally standardised by IEC 60309-1 and IEC 60309-2. The IEC (International Electronics Commission), located in Geneva, is a standards organisation working worldwide in the areas of electronics and electrotechnology.

Standardisation CENLEC

The European Committee for Electrotechnical Standardisation (short CENLEC) took the standards requirements from IEC 60309 and implemented in European Standard EN 60309 without any changes.

CENLEC is responsible for European standardisation in the area of electrotechnology. Member countries of CENLEC are the national electrotechnology committees of Belgium, Denmark, Germany, Estonia, Finland, France, Greece, Ireland, Iceland, Italy, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Norway, Austria, Poland, Portugal, Romania, Sweden, Switzerland, Slovakia, Slovenia, Spain, Czech Republic, Hungary, the United Kingdom and Cyprus.

RoHS Directive 2002/95/EG

The directive on banning hazardous materials regulates the limitations for putting lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) in electric and electronic devices on the market.

Our industrial plug connections do not fall under the jurisdiction of the RoHS Directive 2002/95/EG. However, if these were to be installed in devices or their components which fall under the jurisdiction of this directive, they would be in accordance with the restrictions set down in the RoHS directive.

The following devices and components built into devices fall under the jurisdiction of the RoHS:

Large home appliances, small home appliances, IT and telecommunication devices, consumer electronics devices, lighting devices, lamps and lights in households, electric transformers built into lighting, switches, motion detectors and ballasts, electric and electronic tools (with the exception of large, anchored, industrial tools), toys as well as sporting and leisure devices, automated vending machines as well as the connection cables and plugs associated with the above.

System for compatibility and distinctiveness

Through the international standardisation of industrial plug connections, the most important measurements, for example, are so designed that plug connections with the same rated currents, rated operational voltage ranges, same number of poles and frequency from different manufacturers are compatible with one another.

In addition, 12 different standardised clock-hour positions for the protective contact, in relation to the non-interchangeable nose on the protective collar, prevent devices with different rated values being connected to each other.

If the label of an industrial plug connection has the number “9” followed by the letter “h” (hour), this gives the position of the protective contact socket if one looks at the front side of a socket or connector and compares it to the face of a clock. For this, the slot in the protective collar must be turned to 6 o'clock.





ABL SURSUM



Z59.16



COMBINATION UNITS

SOCKET OUTLET COMBINATIONS

Stationary Socket Outlet Combinations

Modular System	102
Key Advantages	104
Sizes	107
Socket Outlet Combinations Series 45	111
Socket Outlet Combinations Series 51	113
Socket Outlet Combinations Series 52	114
Socket Outlet Combinations Series 53	116
Socket Outlet Combinations Series 54	117
Socket Outlet Combinations Series 59	119
Socket Outlet Combinations Series 60	122
Socket Outlet Combinations Series 60 (colored)	126
Weather Protection Hoods	127
Rubber Wall-Mounted Distribution Units, Housing Series 88	128
Rubber Wall-Mounted Distribution Units, Housing Series 98	129
CEE Switched Interlocked Wall-mounted Socket Outlets	131
CEE Switched Interlocked Wall-mounted Socket Outlets, with DIN Rail	134
CEE Wall-mounted Socket Outlets with Protection	136
CEE Socket Outlet Combinations	137
Specifications	138

Mobile Socket Outlet Combinations

Modular System	140
Overview	142
Power Cubes Series 30	148
Plastic Socket Outlet Case Series 45	150
Plastic Socket Outlet Case Series 55	152
Plastic Socket Outlet Case Series 73	153
Multiple Power Strip (rubber) Series 48	154
Multiple Power Strip Safety (rubber) PRCD-S	155
Rubber Socket Outlet Case Series 58	156
Rubber free-standing distribution units Series 68	157
Rubber free-standing distribution units Series 78	158
EventLine	160

STATIONARY SOCKET OUTLET COMBINATIONS MODULAR SYSTEM

SINGLE SUPPLIER SOLUTIONS We manufacture all the components for our Socket Outlet Combinations ourselves. This way we can guarantee the highest quality and flexible solutions through individually tailored combinations. You can find a planning template in the Downloads section of our website www.abl-sursum.com. Please direct any queries to kombis@abl-sursum.com or call +49(0) 9123/188-164, 126.

MINIATURE CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS



- Miniature Circuit Breakers
 - Switching capabilities 6/10 kA,
 - B, C, D, K and Z characteristics
- Residual Current Devices
 - Type A (pulsating current sensitive)
 - Type B (universal current sensitive)

RAIL-MOUNTED DEVICES



- Switches, Buttons, Indicator Lights
- Mechanical and Electronic Relays and Remote Switches
- Grid Monitoring, Installation Contactors
- Timers
- Safety Transformers

SCHUKO SOCKET OUTLETS



- Self-closing, hinged lid
- Range of protection ratings
- Shatter-proof thermoplastics
- Range of colors

INTERNATIONAL STANDARD SOCKET OUTLETS



for Belgium, France, Czech Republic, Poland, Switzerland, USA, Canada, United Kingdom, China, Australia

PANEL MOUNTED SOCKET OUTLETS



- with Range of voltages and protection ratings acc. to UL and IEC
- Feed plugs

STATIONARY SOCKET OUTLET COMBINATIONS



THE 8 KEY ADVANTAGES OF OUR STATIONARY SOCKET OUTLET COMBINATIONS

1 PLASTIC HOUSINGS



Range of 6 different housing series (thermoplastic):

- Temperature and impact resistant
- Weather, UV and ozone resistant
- Free of halogens
- Outstanding tracking resistance
- Resistant to a wide range of chemicals

2 SOLID RUBBER HOUSING



2 Series of solid rubber housings:

- Unbreakable, impact resistant and long-lasting
- Free of halogens
- Low flammability and self-extinguishing
- Resistant to welding and other flying sparks
- Oil, grease, acid and gasoline resistant

3 COLOR OPTIONS



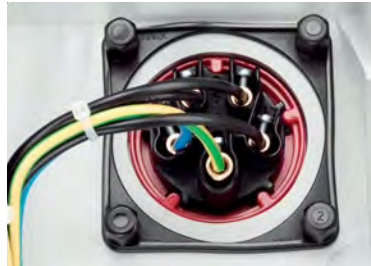
Silver and signal yellow

4 EXPANDABLE



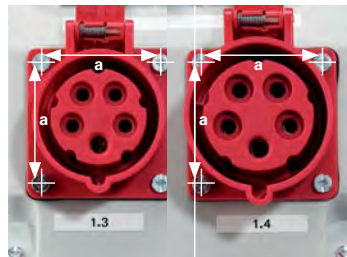
Horizontal and / or vertical, side-by-side flanged housing installation options.

5 SAFE



Maximum safety through insulated attachment of flanged sockets to the housing using plastic cap nuts. Numbered current pathways for clearly structured installation and wiring-up. Our Socket Outlet Combinations are delivered connection-ready.

6 EASY UPGRADES



Standardized flange sizes for standard types, e.g. CEE 16/32 A 6h. All timer settings according to IEC 60309 are possible (see also table on page 239) All standard issue industrial-grade connectors are wired for clockwise phase sequence.

7 QUALITY-ASSURED



Socket Outlet Combinations subject to item-by-item checks according to EN 60439-1. All quality assurance and product data are recorded and reported. The ABL SURSUM quality management system is DIN ISO 9001:2000 certified.

8 SECURE INSTALLATION



Internal mounting option (separate mounting compartment with 4 or 6-fold mounting options for solid installation) or use the external-mount, stainless steel wall bracket (accessory).

SOCKET OUTLET COMBINATIONS

Problem: condensed water in electrical systems

For housings with a high degree of protection and thus a high degree of leak-proofness, condensed water forms inside if there are temperature differences between the inside and outside temperatures. Temperature variations do not only occur due to thermal influences from outside – the inner temperature can also increase due to the power loss of the devices installed. The warmer inner air naturally enriches itself with moisture from outside since the housing is not completely gastight.

If the housing now cools down e.g. by switching off the system, the air inside re-releases the moisture and this forms as a film of condensed water on the cool housing walls.

Small drops form gradually, which then flow to the lowest point of the housing. Less relevant is the problem of condensed water formation with normal installation in rooms.

As an exception here, the conditions should be mentioned by which high humidity and large temperature variations occur like e.g. canteen kitchens, laundries, car washes etc.

Special caution is necessary with installations of unprotected electrical systems outdoors. Here the danger of condensed water forming is especially high due to the change between day and night, strong sunshine and cool weather conditions, and the corresponding temperature differences between inside and outside air.



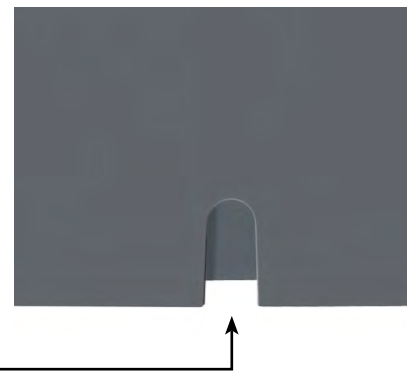
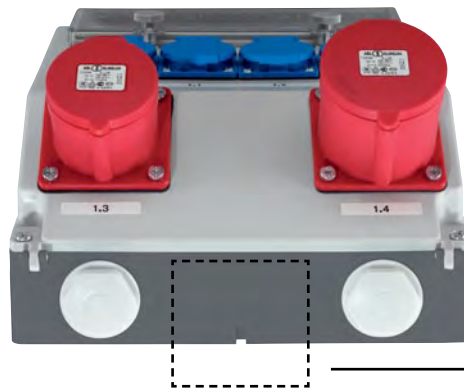
Measures against formation of condensed water

Choosing the installation location

A first aspect is the choice of installation location. Here one can try to avoid large temperature differences in advance.

Technical measures

In every wall-mounted enclosure from ABL SURSUM there is a default potential opening at the lowest point. Collected condensed water can flow through here after puncturing.



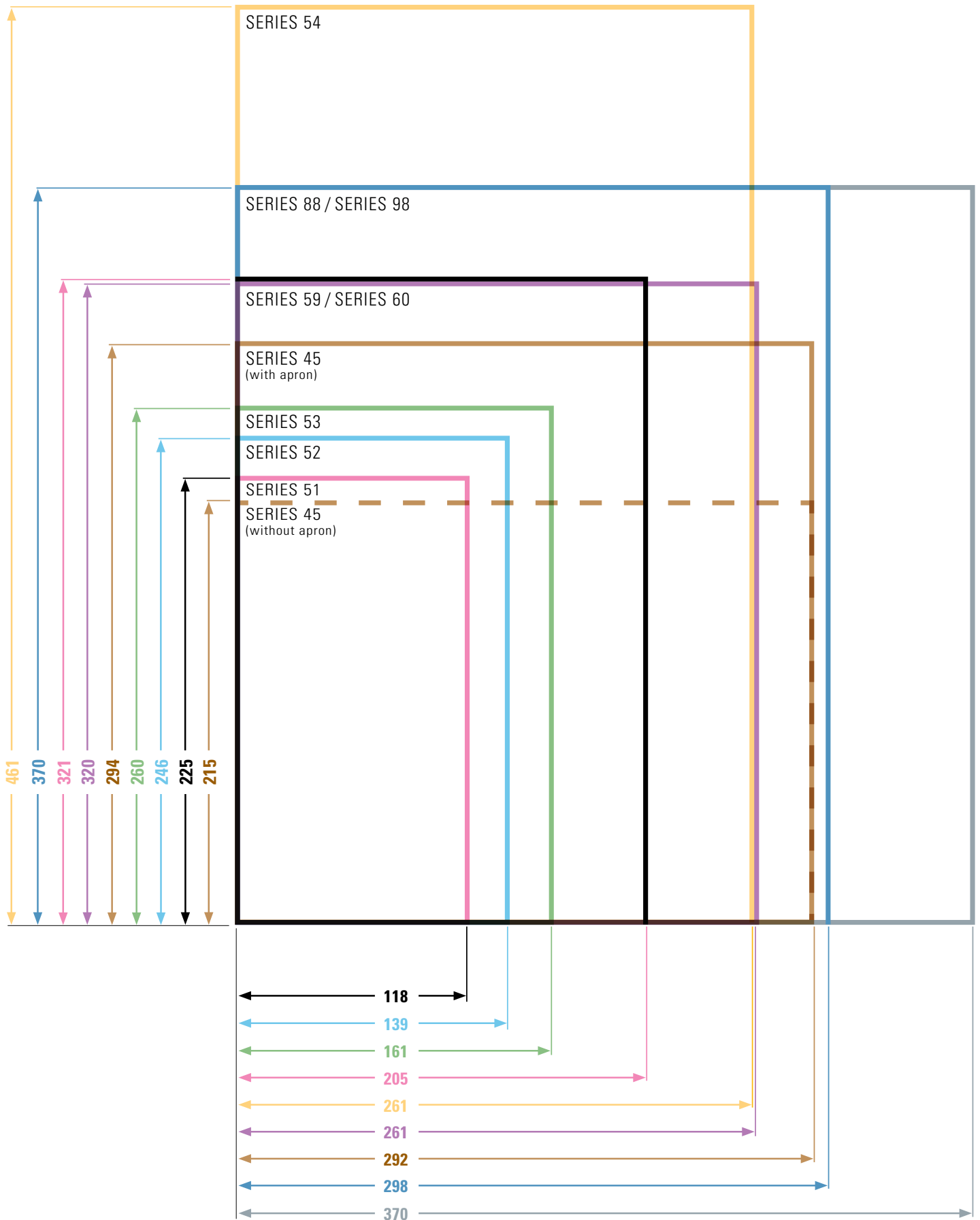
Pressure compensation membrane M 12 x 1.5

The best solution, however, is the installation of a pressure compensation membrane. This has an air outlet of up to 120 litres per hour at a pressure difference of 70 mbar. It makes possible even high degrees of protection like IP67 and can be mounted for wall thicknesses of up to 4 mm.

Connection thread	M12x1,5
Mounting	in wall thicknesses of up to 4 mm
Material	polyamide
Colour	black
Note	delivery incl. counter nut
Packing unit	5 pieces
Article no.	8990900

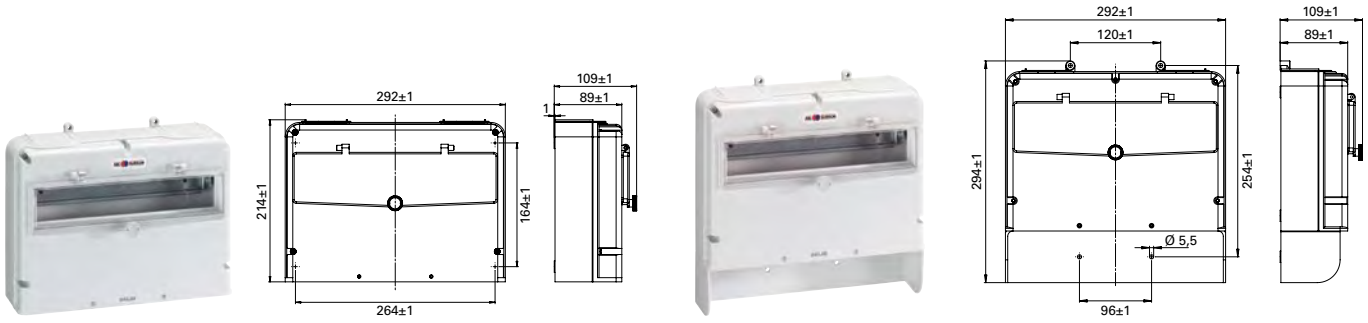
SERIES OF THE STATIONARY SOCKET OUTLET COMBINATIONS

Size comparison – dimensions lateral view

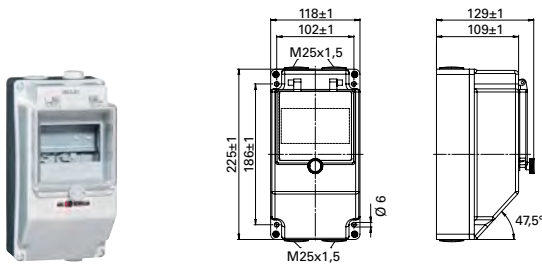


SERIES OF THE STATIONARY SOCKET OUTLET COMBINATIONS

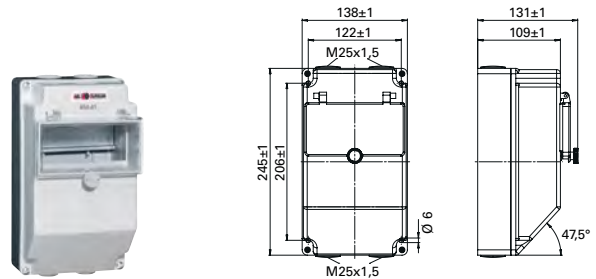
SERIES 45



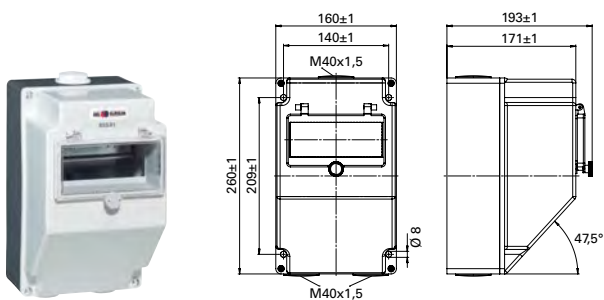
SERIES 51



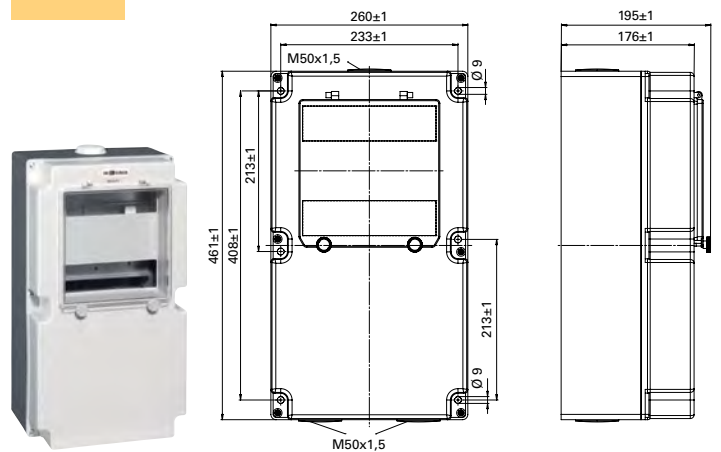
SERIES 52



SERIES 53

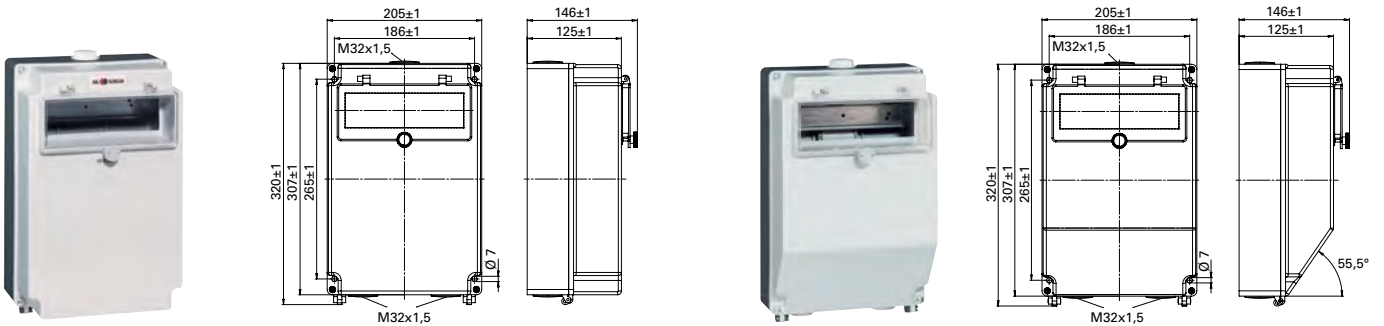


SERIES 54

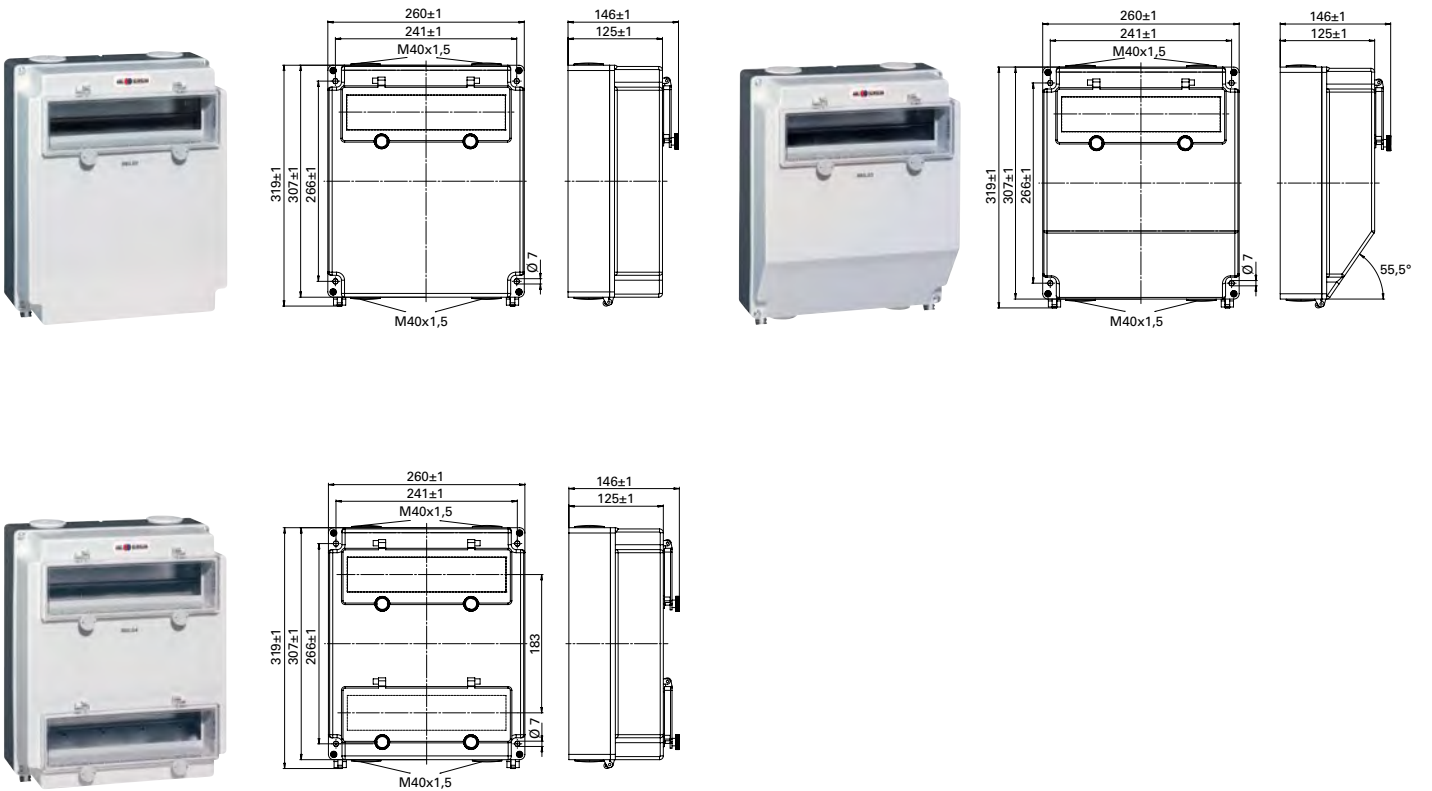


SERIES OF THE STATIONARY SOCKET OUTLET COMBINATIONS

SERIES 59

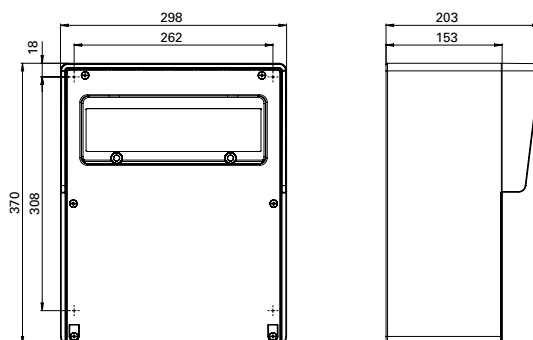


SERIES 60

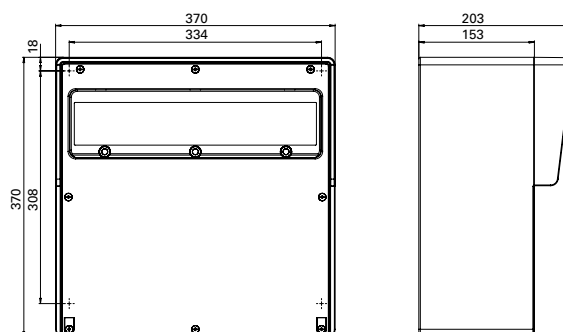


SERIES OF THE STATIONARY SOCKET OUTLET COMBINATIONS

SERIES 88



SERIES 60



SOCKET OUTLET COMBINATIONS SERIES 45

splash-proof IP44, pre-wired ready to connect

SERIES
45

HOUSING SIZE

W x H x D 292 x 214 x 109 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



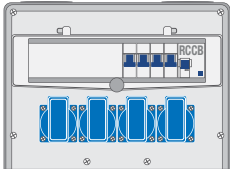
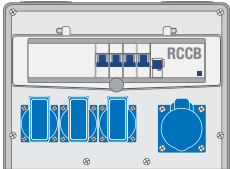
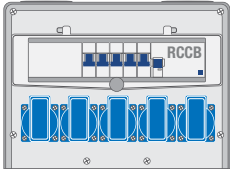
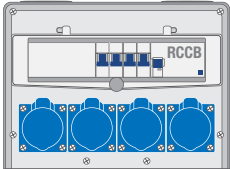
HOUSING ONLY

Cable Inlet: 2 x M40 (top)

Without apron Interior mount using mounting rail for 13 HP

ART.-NO. B 45.04

Socket outlet Combination Options

				
Fitted with				
CEE Sockets		1 x 3/16 A		4 x 3/16 A
SCHUKO Sockets	4	3	5	
FI Switches (RCCB)	1 x 2/25/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	4 x 16 A, 1-pole B	1 x 16 A, 1-pole C 3 x 16 A, 1-pole B	5 x 16 A, 1-pole B	4 x 16 A, 1-pole C
Art.-No.		Z 45.02	Z 45.03	Z 45.04
Note	Stock item			

SOCKET OUTLET COMBINATIONS SERIES 45

splash-proof IP44, pre-wired ready to connect

SERIES
45

HOUSING SIZE

W x H x D 292 x 294 x 109 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

Cable Inlet: 2 x M40 (top)

Without apron Exterior mount using mounting rail for 13 HP

ART.-NO. B 45.00

Socket outlet Combination Options

Fitted with				
CEE Sockets	2 x 5/16 A 1 x 5/32 A	1 x 5/16 A 1 x 5/32 A	2 x 5/16 A	2 x 5/32 A
SCHUKO Sockets	4	3	5	5
FI Switches (RCCB)		1 x 4/40/0.03 A		1 x 4/40/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 2 x 16 A, 3-pole C 4 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	2 x 16 A, 3-pole C 5 x 16 A, 1-pole B	2 x 32 A, 3-pole C 3 x 16 A, 1-pole B
Art.-No.	Z 45.05	Z 45.06	Z 45.07	Z 45.08
Note		Stock item		

Fitted with				
CEE Sockets	1 x 3/16 A 1 x 5/16 A 1 x 5/32 A	1 x 5/16 A 1 x 5/32 A	1 x 5/16 A	1 x 3/16 A 2 x 5/32 A
SCHUKO Sockets	5	4	5	5
FI Switches (RCCB)			1 x 4/40/0.03 A	
LS Switch/Fuse	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 1 x 16 A, 1-pole C 5 x 16 A, 1-pole B	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 3-pole 2 x 16 A, 1-pole	5 x 16 A, 1-pole B 1 x 16 A, 3-pole C	5 x 16 A, 1-pole C 1 x 16 A, 1-pole C 2 x 32 A, 3-pole C
Art.-No.	Z 45.09	Z 45.10	Z 45.17	Z 45.18

SOCKET OUTLET COMBINATIONS SERIES 51

splash-proof IP44, pre-wired ready to connect

**SERIES
51**

HOUSING SIZE

W x H x D 118 x 225 x 129 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: top and bottom, 2 x M25 each

With window and mounting rail for 5 HP

ART.-NO. B 51.01

Without window

ART.-NO. B 51.00

Socket outlet Combination Options

Fitted with				
CEE Sockets		1 x 5/16 A	1 x 5/32 A for 2 separate cable inputs	1 x 5/16 A
SCHUKO Sockets	4	2	2	
FI Switches (RCCB)				
LS Switch/Fuse				1 x 16 A, 3-pole C
Art.-No.	Z 51.02	Z 51.01	Z 51.32	Z 51.05
Note		Stock item		

SOCKET OUTLET COMBINATIONS SERIES 52

splash-proof IP44, pre-wired ready to connect

SERIES
52

HOUSING SIZE

W x H x D 138 x 245 x 131 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: top and bottom, 2 x M25 each

With window and mounting rail for 7 HP

ART.-NO. B 52.01

Without window

ART.-NO. B 52.00

Socket outlet Combination Options

Fitted with				
CEE Sockets	1 x 5/16 A	1 x 5/16 A	1 x 5/16 A	1 x 5/16 A
SCHUKO Sockets	2	2	2	2
FI Switches (RCCB)			4/40/0.03 A	4/40/0.03 A
LS Switch/Fuse	1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 16 A, 3-pole C 2 x 16 A, 1-pole C	1 x 16 A, 1-pole B	2 x 16 A, 1-pole B
Art.-No.	Z 52.02	Z 52.22	Z 52.07	Z 52.27
Note:	Stock item		Stock item	

Fitted with				
CEE Sockets	1 x 5/32 A	1 x 5/32 A	1 x 5/32 A	1 x 5/32 A
SCHUKO Sockets	2	2	2	2
FI Switches (RCCB)			4/40/0.03 A	4/40/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 2 x 16 A, 1-pole B	1 x 32 A, 3-pole C 2 x 16 A, 1-pole C	1 x 16 A, 1-pole B	2 x 16 A, 1-pole B
Art.-No.	Z 52.11	Z 52.32	Z 52.34	Z 52.37
Note:				

SOCKET OUTLET COMBINATIONS SERIES 52

splash-proof IP44, pre-wired ready to connect

SERIES
52

HOUSING SIZE

W x H x D 138 x 245 x 131 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: top and bottom, 2 x M25 each

With window and mounting rail for 7 HP

ART.-NO. B 52.01

Without window

ART.-NO. B 52.00

Socket outlet Combination Options

Fitted with				
CEE Sockets				
SCHUKO Sockets	3	4	4	4
FI Switches (RCCB)	1 x 4/40/0.03 A		1 x 2/25/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	3 x 16 A, 1-pole C	4 x 16 A, 1-pole B	4 x 16 A, 1-pole B	2 x 16 A, 1-pole B
Art.-No.	Z 52.26	Z 52.03	Z 52.24	Z 52.25
Note:		Stock item		

Fitted with			
CEE Sockets	1 x 5/16 A	1 x 5/32 A	3 x 5/16 A
SCHUKO Sockets	2	2	
FI Switches (RCCB)			
LS Switch/Fuse	Neozed Fuse Sockets 1 x 16 A, 3-pole 1 x 16 A, 1-pole	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 1-pole	
Art.-No.	Z 52.09	Z 52.10	Z 52.13
Note:			

SOCKET OUTLET COMBINATIONS SERIES 53

splash-proof IP44, pre-wired ready to connect

SERIES
53

HOUSING SIZE

W x H x D 160 x 260 x 193 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: top 1 x M40, bottom 2 x M40

With window
and mounting rail for 7 HP

ART.-NO. B 53.01

Without window

ART.-NO. B 53.00

Socket outlet Combination Options

Fitted with				
CEE Sockets	2 x 5/16 A	1 x 5/16 A 1 x 5/32 A	2 x 5/16 A	1 x 5/63 A
SCHUKO Sockets			2	
FI Switches (RCCB)				
LS Switch/Fuse	2 x 16 A, 3-pole C	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C	2 x 16 A, 3-pole C 1 x 16 A, 1-pole B	1 x 63 A, 3-pole
Art.-No.	Z 53.01	Z 53.04	Z 53.14	Z 53.15
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 54

splash-proof IP44, pre-wired ready to connect

SERIES
54

HOUSING SIZE

W x H x D 260 x 461 x 195 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: 1 x M50 top, 2 x M50 bottom

With window and
2 mounting rails for 2 x 10 HP

ART.-NO. B 54.01

Without window

ART.-NO. B 54.00

Socket outlet Combination Options

Fitted with				
CEE Sockets		6 x 3/16 A	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	12		4	4
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/63/0.03 A
LS Switch/Fuse	12 x 16 A, 1-pole B	6 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 4 x 16 A, 1-pole C	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 4 x 16 A, 1-pole C
Art.-No.	Z 54.14	Z 54.11	Z 54.21	Z 54.20
Hinweis	mit Klemmstein 2x5x25 mm ²	mit Klemmstein 2x5x25 mm ²	mit Klemmstein 2x5x25 mm ²	mit Klemmstein 2x5x25 mm ²

Fitted with				
CEE Sockets	1 x 5/16 A 1 x 5/32 A	1 x 5/16 A 1 x 5/32 A	2 x 5/32 A	2 x 5/32 A
SCHUKO Sockets	2	2	4	4
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/63/0.03 A		1 x 4/40/0.03 A
LS Switch/Fuse	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 3-pole 2 x 16 A, 1-pole	Neozed fuse sockets 1 x 16 A, 3-pole 1 x 63 A, 3-pole 2x 16 A, 1-pole	Neozed Fuse Sockets 2 x 63 A, 3-pole 4 x 16 A, 1-pole	Neozed Fuse Sockets 2 x 63 A, 3-pole 4 x 16 A, 1-pole
Art.-No.	Z 54.33	Z 54.34	Z 54.06	Z 54.19
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 54

splash-proof IP44, pre-wired ready to connect

SERIES
54

HOUSING SIZE

W x H x D 260 x 461 x 195 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend

Cable Inlets: 1 x M50 top, 2 x M50 bottom

With window and
2 mounting rails for 2 x 10 HP

ART.-NO. B 54.01

Without window

ART.-NO. B 54.00

Socket outlet Combination Options

Fitted with				
CEE Sockets	1 x 5/16 A + 1 x 5/32 A	2 x 5/16 A + 1 x 5/32 A	3 x 5/16 A 1 x 5/32 A	2 x 5/16 A 2 x 5/32 A
SCHUKO Sockets	4	4	3	3
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/63/0.03 A	1 x 4/63/0.03 A	1 x 4/63/0.03 A
LS Switch/Fuse	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 3-pole 4 x 16 A, 1-pole	1 x 32 A, 3-pole C 2 x 16 A, 3-pole C 4 x 16 A, 1-pole B	1 x 32 A, 3-pole C 3 x 16 A, 3-pole C 3 x 16 A, 1-pole B	2 x 32 A, 3-pole C 2 x 16 A, 3-pole C 3 x 16 A, 1-pole B
Art.-No.	Z 54.15	Z 54.22	Z 54.32	Z 54.36
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²
		Stock item		

Fitted with				
CEE Sockets	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A
SCHUKO Sockets	2	2	2	2
FI Switches (RCCB)		1 x 4/63/0.03 A	1 x 4/63/0.03 A	1 x 4/63/0.03 A
LS Switch/Fuse	Neozed Fuse Sockets 2 x 63 A, 3-pole 1 x 16 A, 3-pole 2 x 16 A, 1-pole	1 x 63 A, 3-pole C 1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	Neozed Fuse Sockets 2 x 63 A, 3-pole 1 x 16 A, 3-pole LS Switch 2 x 16 A, 1-pole B	1 x Neozed fuse sockets 63 A, 3-pole LS Switch 1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole C
Art.-No.	Z 54.45	Z 54.66	Z 54.67	Z 54.69
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 59

splash-proof IP44, pre-wired ready to connect

SERIES
59

HOUSING SIZE

W x H x D 205 x 320 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, flat cover

Cable Inlets: 1 x M32 top, 2 x M32 bottom

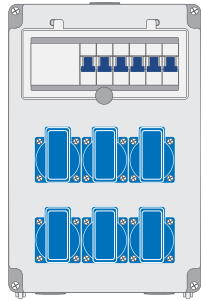
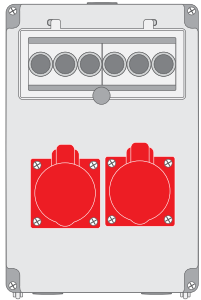
With window and mounting rail for 9 HP

ART.-NO. B 59.02

Without window

ART.-NO. B 59.00

Socket outlet Combination Options

		
Fitted with		
CEE Sockets		2 x 5/16 A
SCHUKO Sockets	6	
FI Switches (RCCB)		
LS Switch/Fuse	6 x 16 A, 1-pole B	2 x 16 A, 3-pole
Art.-No.	Z 59.09	Z 59.40
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 59

splash-proof IP44, pre-wired ready to connect

SERIES
59

HOUSING SIZE

W x H x D 205 X 320 X 146 MM
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, angled cover

Cable Inlets: 1 x M32 top, 2 x M32 bottom

With window and mounting rail for 9 HP

ART.-NO. B 59.03

Without window

ART.-NO. B 59.01

Socket outlet Combination Options

Fitted with				
CEE Sockets	1 x 5/16 A	1 x 5/16 A	1 x 5/32 A	1 x 5/16 A
SCHUKO Sockets	2	2	2	3
FI Switches (RCCB)	4/40/0.03 A	4/40/0.03 A	4/40/0.03 A	
LS Switch/Fuse	1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 16 A, 3-pole C 2 x 16 A, 1-pole C	1 x 32 A, 3-pole C 2 x 16 A, 1-pole B	Neozed Fuse Sockets 1 x 16 A, 3-pole 3 x 16 A, 1-pole
Art.-No.	Z 59.06	Z 59.16	Z 59.36	Z 59.01
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²
	Stock item			

Fitted with				
CEE Sockets	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A	2 x 5/16 A
SCHUKO Sockets	2	2	2	2
FI Switches (RCCB)			4/40/0.03 A	
LS Switch/Fuse	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole C	1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	2 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Art.-No.	Z 59.05	Z 59.25	Z 59.26	Z 59.02
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²
	Stock item	Stock item	Stock item	

SOCKET OUTLET COMBINATIONS SERIES 59

splash-proof IP44, pre-wired ready to connect

SERIES
59

HOUSING SIZE

W x H x D 205 x 320 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, angled cover

Cable Inlets: 1 x M32 top, 2 x M32 bottom

With window and mounting rail for 9 HP

ART.-NO. B 59.03

Without window

ART.-NO. B 59.01

Socket outlet Combination Options

Fitted with			
CEE Sockets		2 x 5/16 A	3 x 5/16 A
SCHUKO Sockets		3	
FI Switches (RCCB)			
LS Switch/Fuse		2 x 16 A, 3-pole C 3 x 16 A, 1-pole B	3 x 16 A, 3-pole C
Art.-No.	Z 59.32	Z 59.07	Z 59.08
Note:		with clamping block 2 x 5 x 25 mm ²	with clamping block 2 x 5 x 25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 60

splash-proof IP44, pre-wired ready to connect

**SERIES
60**

HOUSING SIZE

W x H x D 260 x 319 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, flat cover

Cable Inlets: top and bottom, 2 x M40 each

With window and mounting rail for 12 HP

ART.-NO. B 60.02

Without window

ART.-NO. B 60.00

Socket outlet Combination Options

Fitted with				
CEE Sockets	4 x 5/16 A	4 x 5/32 A		
SCHUKO Sockets			6	8
FI Switches (RCCB)			6 x FI/LS 2/C16/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	4 x 16 A, 3-pole C	4 x 32 A, 3-pole C		8 x 16 A, 1-pole B
Art.-No.	Z 60.22	Z 60.23	Z 60.30	Z 60.31
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 60

For combination with housing Art. No. B 60.00 · splash-proof IP44, pre-wired ready to connect

SERIES
60

HOUSING SIZE

W x H x D 260 x 319 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, flat cover

Cable Inlets: top and bottom, 2 x M40 each

With 2 windows and mounting rail for 2 x 12 HP

ART.-NO. B 60.04

Socket outlet Combination Options

Housing size for the entire combination 261 x 640 mm			
Fitted with			
CEE Sockets	2 x 5/16 A 2 x 5/32 A	2 x 5/16 A 1 x 5/32 A 1 x 5/63 A	1 x 5/16 A 1 x 5/32 A 1 x 5/63 A
SCHUKO Sockets	4	4	4
FI Switches (RCCB)			1 x 4/63/0.03 A
LS Switch/Fuse	Neozed Fuse Sockets 2 x 63 A, 3-pole 2 x 16 A, 3-pole 4 x 16 A, 1-pole	Neozed Fuse Sockets 2 x 63 A, 3-pole 2 x 16 A, 3-pole 4 x 16 A, 1-pole	1 x 63 A, 3-pole C 1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 4 x 16 A, 1-pole B
Art.-No.	Z 60.27	Z 60.28	Z 60.38
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 60

splash-proof IP44, pre-wired ready to connect

SERIES
60

HOUSING SIZE

W x H x D 260 x 319 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, angled cover

Cable Inlets: top and bottom, 2 x M40 each

With window
and mounting rail for 12 HP
ART.-NO. B 60.03

Without window
ART.-NO. B 60.01

Socket outlet Combination Options

Fitted with				
CEE Sockets	2 x 5/16 A	2 x 5/16 A	2 x 5/16 A	1 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	2	2	2	2
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A		
LS Switch/Fuse	2 x 16 A, 3-pole C 2 x 16 A, 1-pole B	2 x 16 A, 3-pole C 2 x 16 A, 1-pole C	Neozed Fuse Sockets 2 x 16 A, 3-pole 2 x 16 A, 1-pole	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 3-pole 2 x 16 A, 1-pole
Art.-No.	Z 60.02	Z 60.42	Z 60.03	Z 60.10
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²
	Stock item			Stock item

Socket Combination Options

Fitted with				
CEE Sockets	2 x 5/16 A	2 x 5/16 A	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	4	4	4	4
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A		1 x 4/63/0.03 A
LS Switch/Fuse	2 x 16 A, 3-pole C 2 x 16 A, 1-pole B	2 x 16 A, 3-pole C 2 x 16 A, 1-pole C	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 4 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Art.-No.	Z 60.37	Z 60.47	Z 60.04	Z 60.34
Note:	with clamping block 2x5x25 mm ²		with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SOCKET OUTLET COMBINATIONS SERIES 60

splash-proof IP44, pre-wired ready to connect

SERIES
60

HOUSING SIZE

W x H x D 260 x 319 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

PBT/PC-Blend, angled cover

Cable Inlets: top and bottom, 2 x M40 each

With window
and mounting rail for 12 HP

ART.-NO. B 60.03

Without window

ART.-NO. B 60.01

Socket outlet Combination Options

Fitted with				
CEE Sockets	2 x 5/32 A	3 x 5/16 A	2 x 5/16 A 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A
SCHUKO Sockets	4	3	4	2
FI Switches (Rccb)	1 x 4/40/0.03 A			
LS Switch/Fuse	2 x 32 A, 3-pole C 2 x 16 A, 1-pole B	3 x 16 A, 3-pole C 3 x 16 A, 1-pole B	1 x 32 A, 3-pole C 2 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 63 A, 3-pole C 1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Art.-No.	Z 60.32	Z 60.01	Z 60.15	Z 60.06
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

Fitted with	
CEE Sockets	1 x 5/16 A + 1 x 5/32 A + 1 x 5/63 A
SCHUKO Sockets	2
FI Switches (Rccb)	1 x 4/63/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Art.-No.	Z 60.66
Note:	with clamping block 2x5x25 mm ²

COLORED SOCKET OUTLET COMBINATIONS SERIES 60

splash-proof IP44, pre-wired ready to connect

SERIES
60

HOUSING SIZE

W x H x D 260 x 319 x 146 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



Socket outlet Combination Options

Fitted with				
CEE Sockets	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	2	2	4	4
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole C	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole C
Grey: Art. No.	Z 60.16*	Z 60.36*	Z 60.14*	Z 60.44
Signal yellow: Art. No.	Z60.16G	Z60.36G	Z60.14G	Z60.44G
Silver: Art. No.	Z60.16S	Z60.36S	Z60.14S	Z60.44S
Note:	with clamping block 2 x 5 x 25 mm ²	with clamping block 2 x 5 x 25 mm ²	with clamping block 2 x 5 x 25 mm ²	with clamping block 2 x 5 x 25 mm ²
	*Stock item	*Stock item	*Stock item	

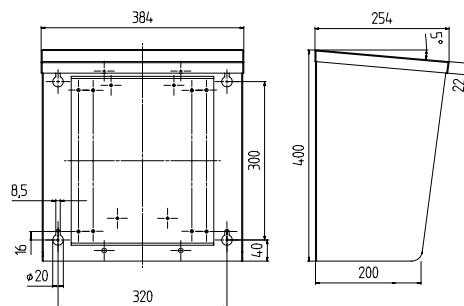
WEATHER PROTECTION HOODS

For wall-mounting or freestanding installations



Weatherproofing

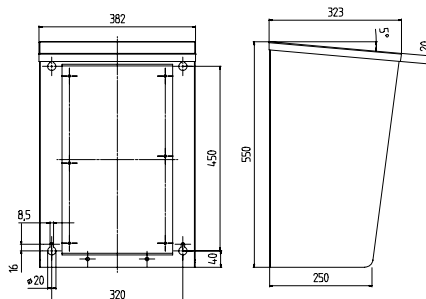
In conjunction with our weather protection hoods, our socket combinations are also perfectly suited for outdoor installation.



WEATHER PROTECTION HOODS

Stainless steel
dimensions W x H x D
384 x 400 x 254 / 200 mm
Pre-punched holes
for wall-mounting
Distributor Boxes (plastic)
Series 45, 59 and 60

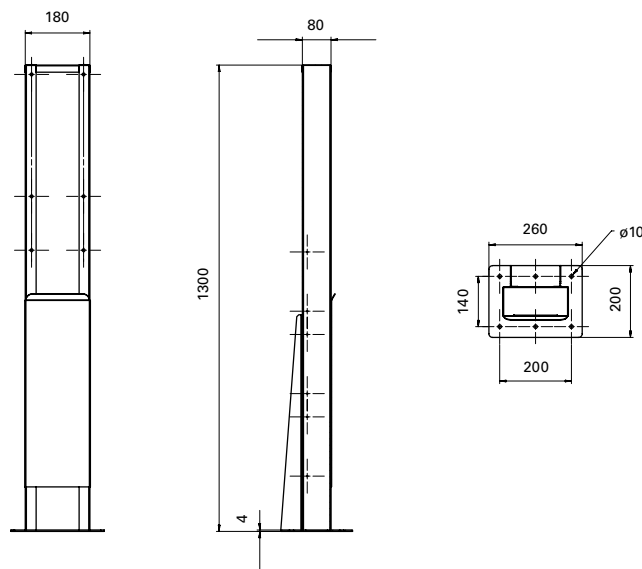
ART.-NO. WSD60



WEATHER PROTECTION HOODS

Stainless steel
dimensions W x H x D
382 x 550 x 323 / 250 mm
Pre-punched holes
for wall-mounting
Distributor Boxes (plastic)
Series 54

ART.-NO. WSD54



FREESTANDING POWER DISTRIBUTOR

Stainless steel
height 1300 mm
for weather protection hoods
WSD60 and WSD54,
detachable, height adjustable
cover plate, solid stainless
steel base plate
260 x 200 mm with pre-drilled
holes (ø 10 mm) for fast
installation, additional bracing
at the back for high stability

ART.-NO. STS5460

RUBBER WALL-MOUNTED DISTRIBUTION UNITS, HOUSING SERIES 88

splash-proof IP44, pre-wired ready to connect

SERIES
88

HOUSING SIZE

W x H x D 298 x 370 x 203 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

Solid rubber housing with protective lip
Housing cover hinged to housing base

Cable Inlets: top and bottom, 2 x M32 each

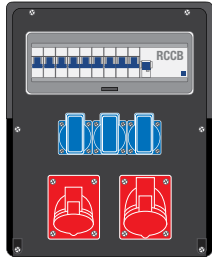
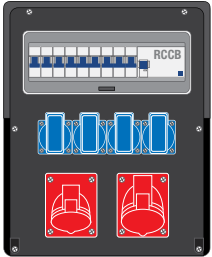
With window
and mounting rail for 13 HP

ART.-NO. B 88.01

Without window

ART.-NO. B 88.00

Rubber wall-mounted distribution units-Combination options

		
Fitted with		
CEE Sockets	1 x 5/16 A 1 x 5/32 A	1 x 5/16 A 1 x 5/32 A
SCHUKO Sockets	3	4
FI Switches (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole C
Supply Cable		
Art.-No.	Z 88.01	Z 88.02
Note:	with clamping block 2 x 5 x 25 mm ²	with clamping block 2 x 5 x 25 mm ²

RUBBER WALL-MOUNTED DISTRIBUTION UNITS, HOUSING SERIES 98

splash-proof IP44, pre-wired ready to connect

SERIES
98

HOUSING SIZE

W x H x D 370 x 370 x 203 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

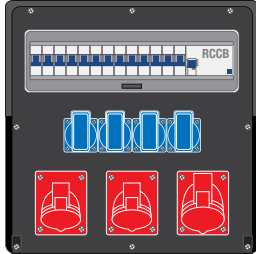
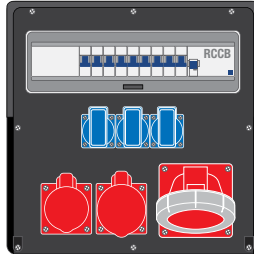
Solid rubber housing with protective lip
Housing cover hinged to housing base

Cable Inlets: top and bottom, 2 x M40 each

With window and mounting rail for 17 HP
ART.-NO. B 98.01

Without window
ART.-NO. B 98.00

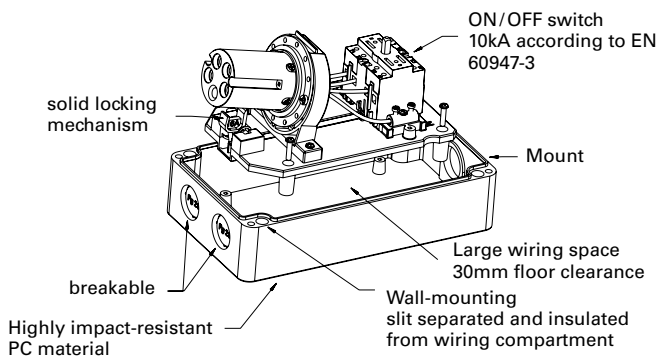
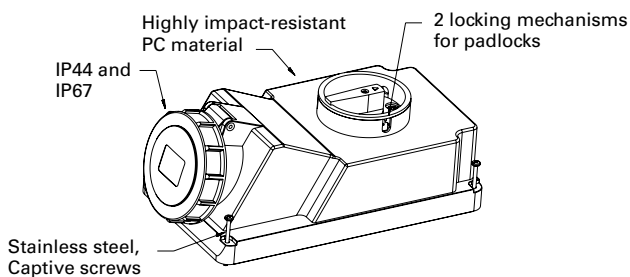
Rubber wall-mounted distribution units-Combination options

		
Fitted with		
CEE Sockets	2 x 5/16 A 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A 1 x 5/63 A
SCHUKO Sockets	4	3
FI Switches (RCCB)	1 x 4/63/0.03 A	1 x 4/63/0.03 A
LS Switch/Fuse	1 x 32 A, 3-pole C 2 x 16 A, 3-pole C 4 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole B
Supply Cable		
Art.-No.	Z 98.01	Z 98.02
Note:	with clamping block 2x5x25 mm ²	with clamping block 2x5x25 mm ²

SWITCHABLE AND / OR FUSE-PROTECTED WALL-MOUNTED SOCKET OUTLETS



16 A AND 32 A VERSIONS



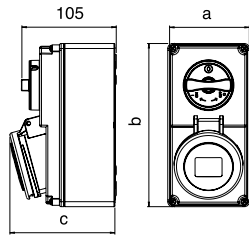
Specifications

- Wide range of models (16 to 63 A) available (16 A and 32 A; 3, 4 or 5 poles)
- 16 A and 32 A with loop-through wiring
- Some models with DIN Rail (EN50022) for 5 or 6 automatic safety switches and pre-wired up to the rail ON/OFF switch 10 kA according to EN 60947-3
- Locking mechanism
 - Plug is locked
 - After inserting and switching ON
 - After switching OFF and unplugging, the switch is blocked
- Lockable in the OFF position (4mm padlock)
- Large wiring space
- Slit for wall-mounting separated and insulated from wiring compartment
- IP44 and IP67
- Checked according to EN 60309

Functional Characteristics

- Switchable wall-mounted or side-mounted base box
- Standard configuration, compact design
- PC/ABS wall socket outlet
- Compact and space-saving design
- Flanged version available
- Padlock lockable
- Locking mechanism
- Large wiring space
- Cable Inlets top and bottom
- 16 A and 32 A with loop-through wiring
- Pre-wired ready to connect

CEE SWITCHED INTERLOCKED WALL-MOUNTED SOCKET OUTLETS



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	90	90	90	90	90	90
b	180	180	180	180	180	180
c	115	116	117	123	123	124
Switching Contacts	2	3	4	2	3	4
Gewicht [g/Stück]	596	657	695	654	712	754

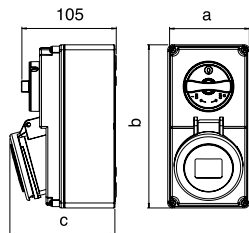
WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- Locking mechanism
- Padlock lockable
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S101	C31S201	C31S301		C31S501	1
16	4	C41S101	C41S201	C41S301	C41S401	C41S501	1
16	5	C51S101	C51S201	C51S301		C51S501	1
32	3	C32S101	C32S201	C32S301		C32S501	1
32	4	C42S101	C42S201	C42S301	C42S401	C42S501	1
32	5	C52S101	C52S201	C52S301		C52S501	1



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	90	90	90	90	90	90
b	180	180	180	180	180	180
c	119	120	122	125	125	128
Switching Contacts	2	3	4	2	3	4
Gewicht [g/Stück]	596	657	695	654	712	754

WALL-MOUNTED SOCKET OUTLET

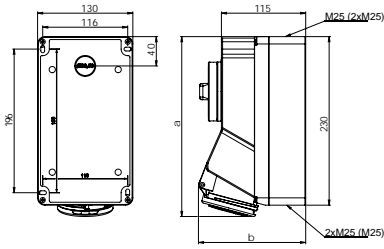
waterproof IP67

- Locking mechanism
- Padlock lockable
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S151	C31S251	C31S351		C31S551	1
16	4	C41S151	C41S251	C41S351	C41S401	C41S551	1
16	5	C51S151	C51S251	C51S351		C51S551	1
32	3	C32S151	C32S251	C32S351		C32S551	1
32	4	C42S151	C42S251	C42S351	C42S451	C42S551	1
32	5	C52S151	C52S251	C52S351		C52S551	1

CEE SWITCHED INTERLOCKED WALL-MOUNTED SOCKET OUTLETS



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	248	249	250	253	253	254
b	146	146	146	150	150	157
M	3x25	3x25	3x25	3x25	3x25	3x25
Switching Contacts	2	3	4	2	3	4
Weight [g/each]	1123	1143	1183	1203	1213	1263

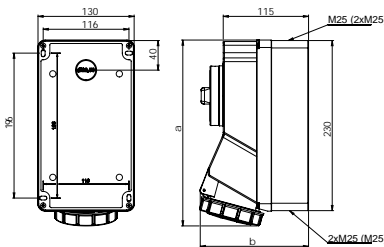
WALL-MOUNTED SOCKET OUTLET

splash-proof IP44

- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S102	C31S202	C31S302		C31S502	1
16	4	C41S102	C41S202	C41S302	C41S402	C41S502	1
16	5	C51S102	C51S202	C51S302		C51S502	1
32	3	C32S102	C32S202	C32S302		C32S502	1
32	4	C42S102	C42S202	C42S302	C42S402	C42S502	1
32	5	C52S102	C52S202	C52S302		C52S502	1



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	248	249	250	253	253	254
b	146	146	146	150	150	157
M	3x25	3x25	3x25	3x25	3x25	3x25
AC 22A	20 A	20 A	20 A	32 A	32 A	32 A
Switching Contacts	2	3	4	2	3	4
Weight [g/each]	1130	1150	1190	1210	1220	1270

WALL-MOUNTED SOCKET OUTLET

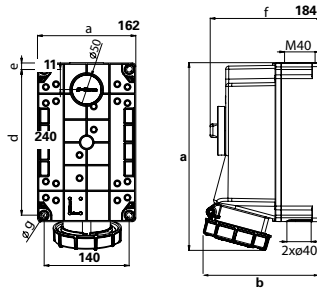
waterproof IP67

- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S152	C31S252	C31S352		C31S552	1
16	4	C41S152	C41S252	C41S352	C41S452	C41S552	1
16	5	C51S152	C51S252	C51S352		C51S552	1
32	3	C32S152	C32S252	C32S352		C32S552	1
32	4	C42S152	C42S252	C42S352	C42S452	C42S552	1
32	5	C52S152	C52S252	C52S352		C52S552	1

CEE SWITCHED INTERLOCKED WALL-MOUNTED SOCKET OUTLETS



NUMBER OF POLES	3	4	5
AMPERE	63		

a	310	310	310
b	195	195	195
AC 22 A	63 A	63 A	63 A
Switching Contacts	2	3	4
Weight [g/each]	1810	1944	2083

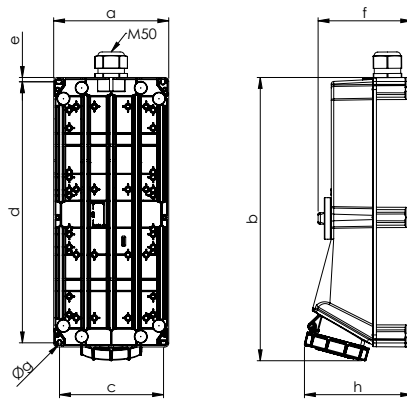
WALL-MOUNTED SOCKET OUTLET

waterproof IP67

- HighPower version
- Locking mechanism
- Padlock lockable
- Housing reversible 180°
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIG-NATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
63	3	C33S153	C33S253	C33S353		C33S553	1
63	4	C43S153	C33S253	C43S353	C43S453	C43S553	1
63	5	C53S153	C33S253	C53S353		C53S553	1



NUMBER OF POLES	3	4	5
AMPERE	125		

a	222	222	222
b	547	547	547
c	201	201	201
d	505	505	505
e	9	9	9
f	182	182	182
ø g	6.5	6.5	6.5
h	209	209	209
AC 22 A	125	125	125
Switching Contacts	2	3	4
Weight [g/each]	4000	4260	4600

WALL-MOUNTED SOCKET OUTLET

waterproof IP67

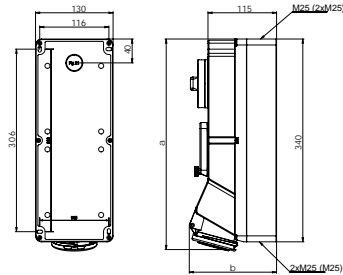
- HighPower version
- Locking mechanism
- Padlock lockable
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIG-NATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
125	3	-	-	-		-	1
125	4	-	-	C44S354	-	-	1
125	5	-	-	C54S354		-	1

CEE SWITCHED INTERLOCKED WALL-MOUNTED SOCKET OUTLETS

With DIN Rail



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	358	359	360	363	363	364
b	146	146	146	150	150	157
M	3x25	3x25	3x25	3x25	3x25	3x25
AC 22 A	20 A	20 A	20 A	32 A	32 A	32 A
Switching Contacts	2	3	4	2	3	4
Weight [g/each]	1483	1603	1643	1663	1673	1723

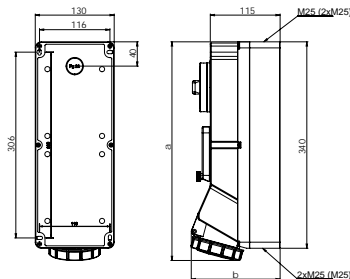
WALL-MOUNTED SOCKET OUTLET WITH DIN RAIL

splash-proof IP44

- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- With DIN Rail and clear cover for 5 modules
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S110	C31S210	C31S310		C31S510	1
16	4	C41S110	C41S210	C41S310	C41S410	C41S510	1
16	5	C51S110	C51S210	C51S310		C51S510	1
32	3	C32S110	C32S210	C32S310		C32S510	1
32	4	C42S110	C42S210	C42S310	C42S410	C42S510	1
32	5	C52S110	C52S210	C52S310		C52S510	1



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

a	358	359	360	363	363	364
b	146	146	146	150	150	157
M	3x25	3x25	3x25	3x25	3x25	3x25
AC 22 A	20 A	20 A	20 A	32 A	32 A	32 A
Switching Contacts	2	3	4	2	3	4
Weight [g/each]	1590	1610	1650	1670	1680	1730

WALL-MOUNTED SOCKET OUTLET WITH DIN RAIL

waterproof IP67

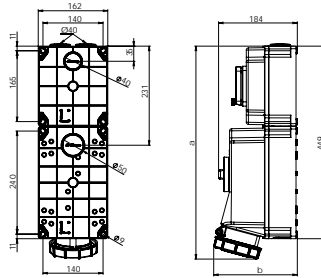
- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- With DIN Rail and clear cover for 5 modules
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	C31S160	C31S260	C31S360		C31S560	1
16	4	C41S160	C41S260	C41S360	C41S460	C41S560	1
16	5	C51S160	C51S260	C51S360		C51S560	1
32	3	C32S160	C32S260	C32S360		C32S560	1
32	4	C42S160	C42S260	C42S360	C42S460	C42S560	1
32	5	C52S160	C52S260	C52S360		C52S560	1

CEE SWITCHED INTERLOCKED WALL-MOUNTED SOCKET OUTLETS

With DIN Rail



NUMBER OF POLES	3	4	5
AMPERE	63		

a	496	496	496
b	195	195	195
AC 22 A	63 A	63 A	63 A
Switching Contacts	2	3	4
Weight [g/each]	3107	3241	3380

WALL-MOUNTED SOCKET OUTLET WITH DIN RAIL

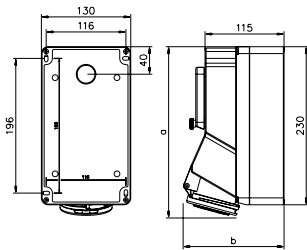
waterproof IP67

- HighPower version
- Locking mechanism
- Padlock lockable
- Top and bottom cable inlets
- with DIN Rail EN50022 for all common fuse types (LS, Fl. ...)
- Pre-wired up to DIN Rail
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIG-NATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
63	3	C33S160	C33S260	C33S360		C33S560	1
63	4	C43S160	C33S260	C43S160	C43S460	C43S560	1
63	5	C53S160	C33S260	C53S160		C53S560	1

CEE WALL-MOUNTED SOCKET OUTLETS WITH PROTECTION



NUMBER OF POLES	3	4	5	3	4	5
AMPERE	16			32		

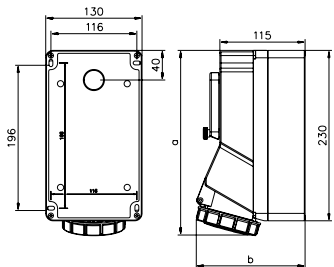
a	248	249	250	253	253	254
b	146	146	146	150	150	157
M	3x25	3x25	3x25	3x25	3x25	3x25
Weight [g/each]	1048	1057	1087	1125	1125	1162

WALL-MOUNTED SOCKET OUTLET splash-proof IP44

- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- With DIN Rail and clear cover for 5 modules
- All components fixed to the top section

VOLTAGE	110 V~	230 V~	400 V~	440 V~	500 V~
FREQUENCY	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DESIGNATION	4h	3p = 6h 4p/5p = 9h	3p = 9h 4p/5p = 6h	11h	7h

AMPERE	POLES	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	ART.-NO.	PACKING UNIT
16	3	B31S10	B31S20	B31S30		B31S50	1
16	4	B41S10	B41S20	B41S30	B41S40	B41S50	1
16	5	B51S10	B51S20	B51S30		B51S50	1
32	3	B32S10	B32S20	B32S30		B32S50	1
32	4	B42S10	B42S20	B42S30	B42S40	B42S50	1
32	5	B52S10	B52S20	B52S30		B52S50	1



NUMBER OF POLES	5	
AMPERE	16	32

a	250	254
b	146	157
M	3x25	3x25
Weight [g/each]	1087	1162

WALL-MOUNTED SOCKET OUTLET waterproof IP67

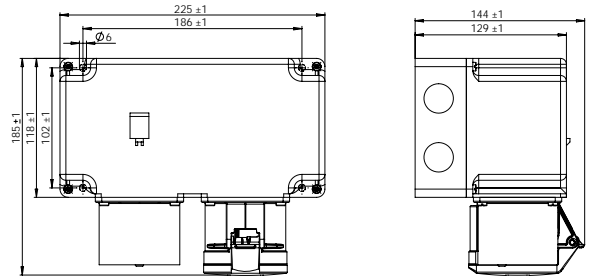
- Locking mechanism
- Padlock lockable
- Top, bottom and rear cable inlets
- With DIN Rail and clear cover for 5 modules
- All components fixed to the top section

VOLTAGE	400 V~
FREQUENCY	50/60 Hz
DESIGNATION	5p = 6h

AMPERE	POLES	ART.-NO.	PACKING UNIT
16	5	B51S35	1
32	5	B52S35	1

CEE SOCKET OUTLET COMBINATIONS

Power Inlets for Transportable Site Offices



SOCKET OUTLET COMBINATIONS

splash-proof IP44

- Housing Size W x H x D
225 x 118 x 131 mm
(without additions)
- Cable Inlets: 2 x M25
on each side
- Clock setting 6h
- Choice of 2 standard
combinations

Socket Combination Options

Fitted with		
Sockets	1 x 5/16 A	1 x 5/32 A
SCHUKO Sockets		
FI Switches (RCCB)		
LS Switch/Fuse		
Feed plugs	1 x 5/16 A	1 x 5/32 A
Art.-No.	Z 57.16	Z 57.36
Note:		



Outside diameters of common cable sections*

What is the diameter of a NYY 4 x 6? Does it still fit into a M25 cable clamp or do you need a 32? The following tables will assist you in selecting the correct sizes.

CABLE SECTION [mm ²]	NYM	NYY	H07RN-F
	CABLE DIAMETER IN mm		

1 x 10	8.4-9.5	10.0-10.5	-
1 x 16	9.9-11	11-12	-
1 x 25	-	13-14	-
1 x 35	-	14-15	-
3 x 1.5	9.1-10.5	12.0-12.5	8.0-10.4
3 x 2.5	10.4-11	13	9.6-12.4
3 x 4	11.9-13	15-16	12.7-16.2
3 x 6	13.4-15	16-17	14.1-18.0
3 x 10	-	18-19	19.1-24.2
4 x 1.5	9.8-11	13.0-13.5	9.0-11.6
4 x 2.5	11.3-12.5	14.0-14.5	10.7-13.8
4 x 4	13.8-14.5	16.0-17.5	14.0-17.9
4 x 6	15.1-16.5	17-18	15.7-20.0
4 x 10	17.9-18.5	19-20	20.9-26.5
4 x 16	22.0-23.5	22-23	23.8-30.1
4 x 25	26.9-28.5	28	28.9-36.6
4 x 35	-	26-30	32.5-41.1
4 x 50	-	30-35	37.7-47.5
4 x 70	-	34-40	42.7-54.0
5 x 1.5	10.8-12	14-15	9.8-12.7
5 x 2.5	12.2-13.5	15-16	11.9-15.3
5 x 4	14.9-15.5	16.5-17	15.6-16.9
5 x 6	16.3-18	19	17.5-22.2
5 x 10	19.5-20	21	22.9-29.1
5 x 16	24.4-26	24	26.4-33.3
5 x 25	29.4-31.5	-	32.0-40.4
7 x 1.5	11.5-13	15-16	14.0-17.5
7 x 2.5	13.1-14.5	16.0-16.5	16.5-20.0

Cable and Conduit Abbreviations

NYM	Sheathed Cable
NYY	Cable with plastic sheath
H07RN-F	Rubber-sheathed cable

Cable Glands Selection Table*

CABLE SECTION [mm ²]	NYM	NYY	H07RN-F
1 x 10	M16	M20	–
1 x 16	M20	M20	–
1 x 25	–	M20	–
1 x 35	–	M25	–
3 x 1.5	M20	M20	M16
3 x 2.5	M25	M20	M20
3 x 4	M25	M25	M25
3 x 6	M25	M25	M32
3 x 10	–	M32	M40
4 x 1.5	M20	M25	M25
4 x 2.5	M20	M25	M25
4 x 4	M25	M25	M32
4 x 6	M25	M32	M32
4 x 10	M32	M32	M40
4 x 16	M40	M40	M50
4 x 25	M50	M50	M63
4 x 35	–	M50	M63
4 x 50	–	M50	M63 *
4 x 70	–	M63	M63 *
5 x 1.5	M20	M25	M20
5 x 2.5	M25	M25	M25
5 x 4	M25	M32	M32
5 x 6	M32	M32	M32
5 x 10	M40	M40	M40
5 x 16	M40	M40	M50
5 x 25	M50	–	M63
7 x 1.5	M25	M25	M32
7 x 2.5	M25	M32	M32

*) All values are averages (subject to change!)

Clamping sites for metric cable Glands*

Our wall-mounted distributor boxes feature grommets and plugs as standard. Of course we will also fit cable clamps on request.

SIZE	CABLE CLAMP CLAMPING AREA [mm]	GROMMETS INLET [mm]
M12	3.5-7	–
M16	4.5-10	5-10
M20	7-13	8-13.5
M25	9-17	9-16
M32	11-21	11-22
M40	19-28	17-34
M50	27-34.5	22-35
M63	34-45	24-43

Grommets:

- For ordinary installations without special requirements
- Without strain relief
- IP54 Protection rating

Cable Glands:

- Integrated strain relief
- Large sealing and clamping area
- IP68 – 5 bar (30 min) Protection rating



MOBILE SOCKET OUTLET COMBINATIONS MODULAR SYSTEM

SINGLE SUPPLIER SOLUTIONS We manufacture all the components for our Socket Outlet Combinations ourselves. This way we can guarantee the highest quality as well as flexible solutions through individually tailored combinations. You can find a planning template in the Downloads section of our website www.abl-sursum.com. Please direct any queries to kombis@abl-sursum.com or call +49(0) 9123/188-164, 126.

MINIATURE CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS



- Miniature Circuit Breakers
- Switching capabilities 6/10 kA,
 - B, C, D, K and Z characteristics
- Residual Current Devices
- Type A (pulsating current sensitive)
 - Type B (universal current sensitive)

RAIL-MOUNTED DEVICES



- Switches, Buttons, Indicator Lights
- Mechanical and Electronic Relays and Remote Switches
- Grid Monitoring, Installation Contactors
- Timers
- Safety Transformers

SCHUKO SOCKET OUTLETS



- Self-closing, hinged lid
- Range of protection ratings
- Shatter-proof thermoplastics
- Range of colors

INTERNATIONAL STANDARD SOCKET OUTLETS



for Belgium, France, Czech Republic, Poland, Switzerland, USA, Canada, United Kingdom, China, Australia

PANEL MOUNTED SOCKET OUTLETS



- with Range of voltages and protection ratings acc. to UL and IEC
- Feed plugs

MOBILE SOCKET OUTLET COMBINATIONS



MOBILE SOCKET COMBINATIONS

Overview

1 POWER CUBES



Power supply from above for workshops and industrial work sites – offers shorter connecting distances to power/pneumatic tools. With CEE-/SCHUKO sockets, international standard outlets, data sockets, compressed air outlets etc. Power supply easily connected using the pre-installed clamping block.

2 PORTABLE SOCKET OUTLET BOXES



Your flexible solution for mobile applications
Range of housing materials and sizes
With practical handle for easy transport and relocation.

3 SOCKET OUTLET RAILS



Handy power distribution through small dimensions, robust rubber housing, flexible supply cable and SCHUKO or CEE sockets. Also available with Ground Fault Protection, external voltage detection and under-voltage release.

4 RUBBER FREE-STANDING DISTRIBUTION UNITS



Heavy-duty, high-quality housing materials and a large base plate ensure stability and safety. The strong handle makes transport easy and stores the supply cable. Ground clearance to keep moisture out. Available in orange, black or as **EVENTLINE** version (p.302).

5 PLASTIC HOUSINGS



Range of 6 different housing series (thermoplastic):

- Temperature and impact resistant
- Weather, UV and ozone resistant
- Free of halogens
- Outstanding tracking resistance
- Resistant to a wide range of chemicals

6 SOLID RUBBER HOUSING



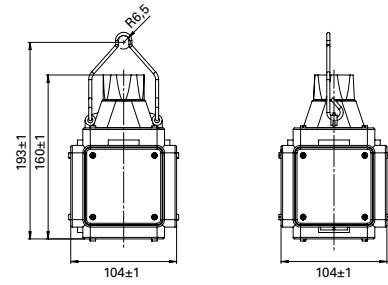
2 Series of solid rubber housings:

- Unbreakable, impact resistant and long-lasting
- Free of halogens
- Low flammability and self-extinguishing
- Resistant to welding and other flying sparks
- Oil, grease, acid and gasoline resistant

MOBILE SOCKET COMBINATIONS

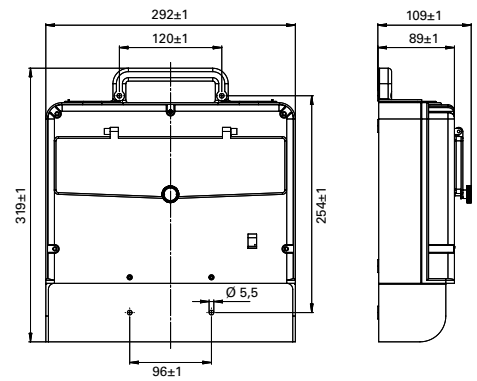
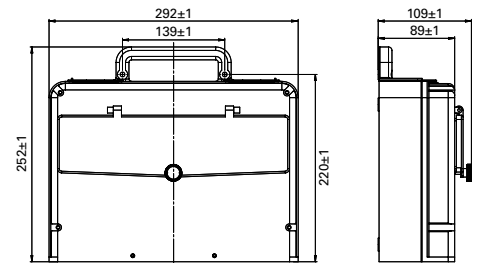
SERIES
30

POWER CUBE



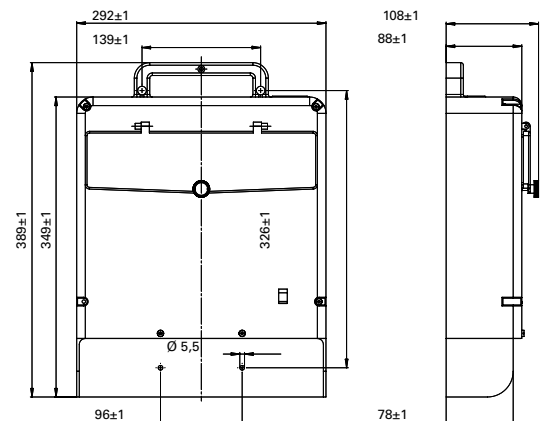
SERIES
45

PLASTIC SOCKET
OUTLET CASE



SERIES
55

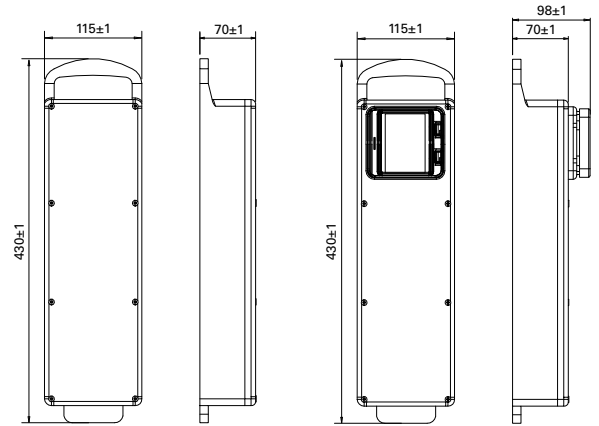
PLASTIC SOCKET
OUTLET CASE



MOBILE SOCKET COMBINATIONS

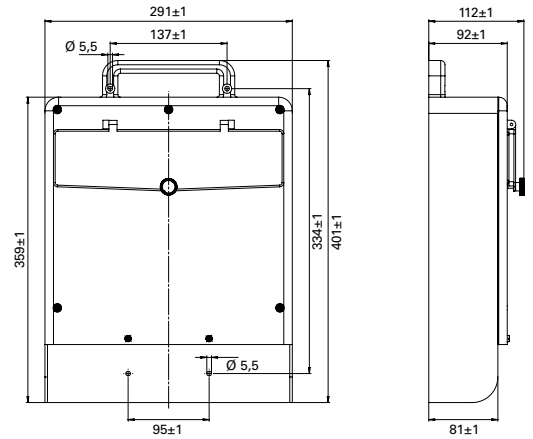
SERIES
48

RUBBER POWER
STRIP



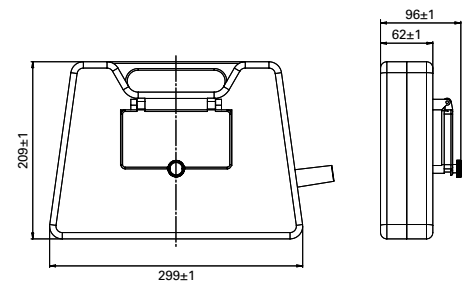
SERIES
58

RUBBER SOCKET
OUTLET CASE



SERIES
73

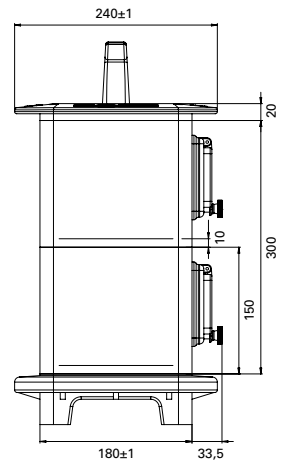
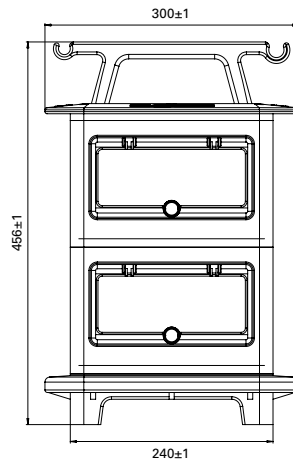
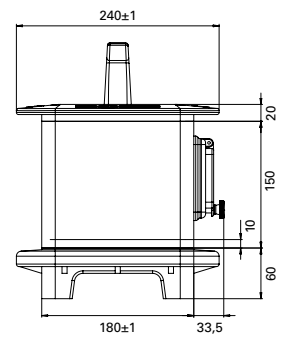
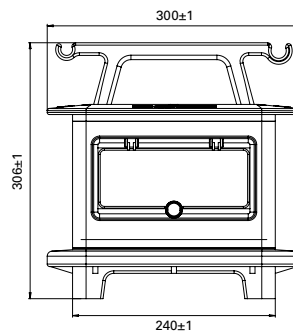
PLASTIC SOCKET
OUTLET CASE



MOBILE SOCKET COMBINATIONS

SERIES
68

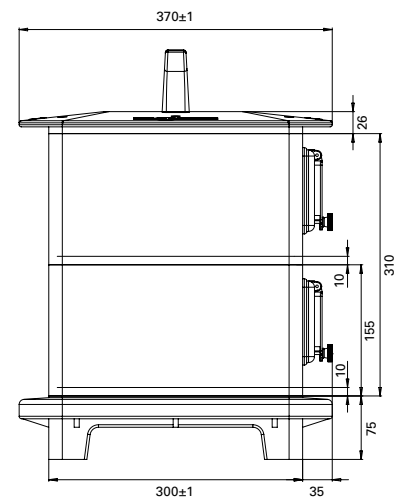
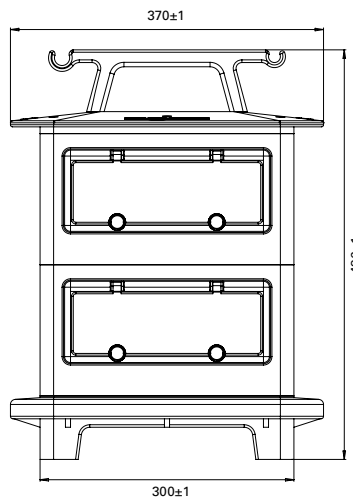
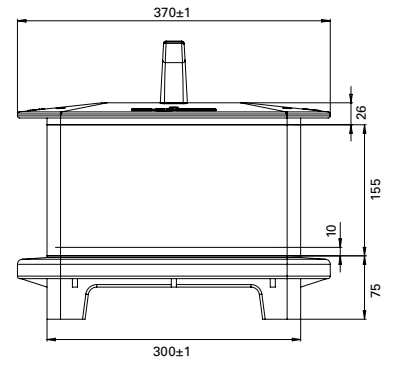
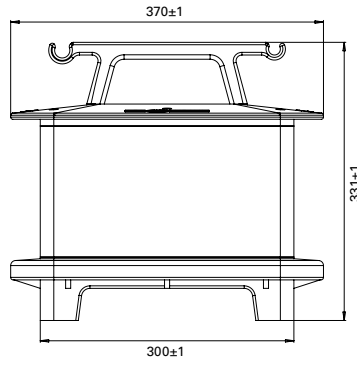
FREE-STANDING
SOLID RUBBER
OUTLET



MOBILE SOCKET COMBINATIONS

SERIES
78

FREE-STANDING SOLID
RUBBER OUTLET



POWER CUBE

SERIES
30



COVER PANEL WITH HOOK
for Power Cube

ART.-NO. 8899749



COVER PANEL
for Power Cube

ART.-NO. 8899759



ADAPTER PANEL
for Power Cube

ART.-NO. 8899779



COMPRESSED AIR CONNECTOR

mounted on cover panel ·
1/2" inlet and 2 x 1/2" outlets
ART.-NO. ZDL304

Power Cube Connection Possibilities

	<p>Bottom side</p>	<p>Bottom side</p>	<p>Bottom side</p>	<p>Bottom side</p>
Fitted with				
CEE Sockets				1 x 5/16 A
SCHUKO Sockets	3	4	5	3
Compressed Air Connector				1/2" inlet and 2 x 1/2" outlets
Art.-No.	3E 1561	4E 1561	5E 1561	ZL30.02
Note:	Stock Item	Stock Item		Stock Item

	<p>Bottom side Cube 1</p> <p>Bottom side Cube 2</p>
Fitted with	
CEE Sockets	1 x 5/32 A 1 x 5/16 A
SCHUKO Sockets	3
Ethernet Sockets	
Art.-No.	ZT30.08
Note:	For twin supply cables

PLASTIC SOCKET OUTLET CASE

SERIES
45

BOX SIZE

W x H x D 292 x 294 x 109 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements

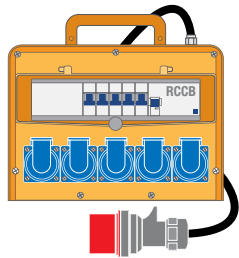
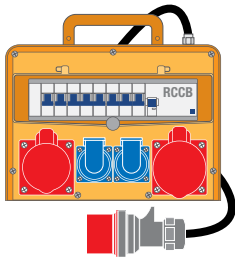


HOUSING ONLY

With mounting rail for 13 HP

ART.-NO. B 45.03

Plastic Socket Outlet Case Combinations

		
Fitted with		
CEE Sockets		1 x 5/32 A 1 x 5/16 A
SCHUKO Sockets	5	2
FI Switch (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	5 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Supply Cable	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A
Art.-No.	Z 45.11	Z 45.12
Note:	Stock Item	

PLASTIC SOCKET OUTLET CASE

SERIES
45

BOX SIZE

W x H x D 292 x 318 x 109 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

With apron and mounting rail for 13 HP

For CEE Feed Plug 5/16 A

ART.-NO. B 45.01

For CEE Feed Plug 5/32 A

ART.-NO. B 45.02

Plastic Socket Outlet Case Combinations

Fitted with				
CEE Sockets	2 x 5/16 A	1 x 5/32 A + 1 x 5/16 A	2 x 5/16 A + 1 x 3/16 A	1 x 5/32 A + 1 x 5/16 A
SCHUKO Sockets	3	3	4	3
FI Switch (RCCB)	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	2 x 16 A, 3-pole C 3 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	2 x 16 A, 3-pole C 1 x 16 A, 1-pole C 2 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole B
Supply Cable			2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A
Power Supply	Appliance Plug 5/16 A	Appliance Plug 5/32 A		
Art.-No.	Z 45.13	Z 45.14	Z 45.15	Z 45.16
Note:				

PLASTIC SOCKET OUTLET CASE

SERIES
55

BOX SIZE

W x H x D 292 x 389 x 108 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

With apron and mounting rail for 13 HP

For CEE Feed Plug 5/16 A
ART.-NO. B 55.01

For CEE Feed Plug 5/32 A
ART.-NO. B 55.02

Plastic Socket Outlet Case Combinations

Fitted with				
CEE Sockets	2 x 5/16 A 1 x 3/16 A	1 x 5/16 A	1 x 5/32 A 1 x 5/16 A	1 x 5/32 A + 2 x 5/16 A + 1 x 3/16 A
SCHUKO Sockets	5	6	6	5
FI Switch (RCCB)	1 x 4/25/0.03 A	1 x 4/25/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	1 x 16 A, 3-pole C 3 x 16 A, 1-pole C	1 x 16 A, 3-pole C 3 x 16 A, 1-pole C	1 x 16 A, 3-pole C 6 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole C
Supply Cable	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A
Power Supply				
Art.-No.	Z 55.12	Z 55.16	Z 55.18	Z 55.17
Note:		Stock Item		

Fitted with				
CEE Sockets	2 x 5/16 A	1 x 5/32 A 1 x 5/16 A	1 x 5/32 A 3 x 5/16 A	
SCHUKO Sockets	6	6	3	9
FI Switch (RCCB)	1 x 4/25/0.03 A	1 x 4/40/0.03 A		1 x 4/40/0.03 A
LS Switch/Fuse	1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	3 x 16 A, 3-pole C 3 x 16 A, 1-pole B	9 x 16 A, 1-pole B
Supply Cable				
Power Supply	Appliance Plug 5/16 A	Appliance Plug 5/32 A	Appliance Plug 5/32 A	Appliance Plug 5/32 A
Art.-No.	Z 55.72	Z 55.48	Z 55.74	Z 55.75
Note:		Stock Item		

PLASTIC SOCKET OUTLET CASE

SERIES
73

BOX SIZE

W x H x D 299 x 209 x 96 mm
(without additions)



HOUSING ONLY

With kink-protector sleeve
and mounting rail
for 7 HP

ART.-NO. B 73.01

Fitted with the standard combination or a configuration tailored to your specific requirements

Plastic Socket Outlet Case Combinations

Fitted with				
CEE Sockets			1 x 5/16 A	2 x 5/16 A
SCHUKO Sockets	4	4	3	2
FI Switch (RCCB)	1 x 2/25/0.03 A	1 x 2/25/0.03 A	1 x 4/25/0.03 A	1 x 4/25/0.03 A
LS Switch/Fuse		2 x 16 A, 1-pole B	3 x 16 A, 1-pole B	1 x 16 A, 1-pole B
Supply Cable	2 m H07RN-F 3x2.5mm ² with Solid Rubber SCHUKO Plug	2 m H07RN-F 3x2.5mm ² with Solid Rubber SCHUKO Plug	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A
Art.-No.	Z 73.24	Z 73.25	Z 73.37	Z 73.12
Note:		Stock Item	Stock Item	Stock Item

Fitted with	
CEE Sockets	2 x 5/32 A
SCHUKO Sockets	2
FI Switch (RCCB)	1 x 4/40/0.03 A
LS Switch/Fuse	2 x 16 A, 1-pole B
Supply Cable	2 m H07RN-F 5x4mm ² with CEE Plug 5/32 A
Art.-No.	Z 73.32
Note:	

RUBBER MULTIPLE POWER STRIP

SERIES
48



HOUSING ONLY

with window and mounting rail
for 4 HP

ART.-NO. B 48.01

Without window

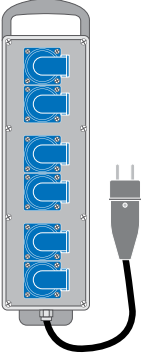
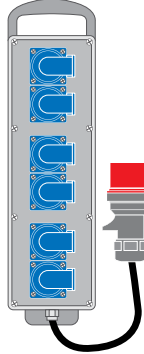
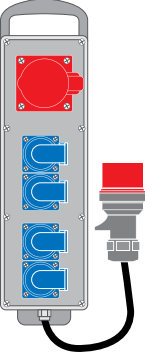
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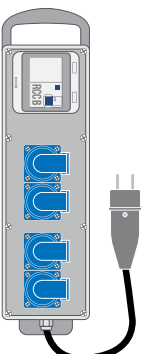
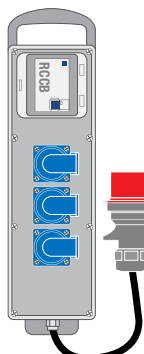
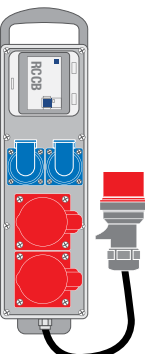
HOUSING SIZE

W x H x D 115 x 430 x 70 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements

Rubber Multiple Power Strip Combinations

			
Fitted with			
CEE Sockets			1 x 5/16 A
SCHUKO Sockets	6	6	4
FI Switch (RCCB)			
LS Switch/Fuse			
Supply Cable	2 m H07RN-F 3x2.5mm ² with Rubber SCHUKO Plug	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A
Art.-No.	Z 48.10	Z 48.00	Z 48.20
Note:	Stock Item		

			
Fitted with			
CEE Sockets	4	3	2
SCHUKO Sockets	1 x 2/25/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
FI Switch (RCCB)			
LS Switch/Fuse	2 m H07RN-F 3x2.5mm ² with Rubber SCHUKO Plug	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A
Supply Cable	Z 48.30	Z 48.31	Z 48.11
Art.-No.			
Note:			

RUBBER MULTIPLE POWER STRIP SAFETY PRCD-S

PRCD-S = Portable Residual Current Device – Switched PE

THE SAFETY POWER STRIP DETECTS FAULTS ON THE SUPPLY SIDE:

- L or N conductor interrupted / not connected
- L and PE conductors switched
- PE conductor interrupted / not connected
- PE conductor interrupted during operation
- PE conductor carries dangerous voltage
- Undervoltage



COMPULSORY FOR ALL MINOR CONSTRUCTION SITES! (GERMAN CONSTRUCTION INDUSTRY ASSOCIATION REGULATION BGI 608)



Rubber Power Strip Combinations (PRCD-S)

Basic Housing 48.00 <ul style="list-style-type: none"> · with window and mounting rail for 6 HP · Standard Combination · Pre-wired ready to connect 		
Fitted with		
SCHUKO Sockets	4	4
FI Switch (RCCB)	1 x 2/25/0.03 A	1 x 2/25/0.03 A
Ground Fault Protection with external voltage detection and undervoltage release	1 x 200cm	1 x 200cm
Supply Cable	2 m H07RN-F 3x2.5mm ² with Rubber SCHUKO Plug	2 m H07RN-F 3x2.5mm ² with Rubber SCHUKO Plug
Art.-No.	B480119	B480123
Note:	Sockets mounted on top	Sockets mounted on sides

RUBBER SOCKET OUTLET CASE

SERIES
58

BOX SIZE

W x H x D 292 x 359 x 112 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

With mounting rail for 13 HP

For CEE Feed Plug 5/16 A

ART.-NO. B 58.01

For CEE Feed Plug 5/32 A

ART.-NO. B 58.02

Rubber Socket Outlet Case Combinations

Fitted with				
CEE Sockets	2 x 5/16 A 1 x 3/16 A	1 x 5/16 A	1 x 5/32 A 1 x 5/16 A	1 x 5/32 A + 2 x 5/16 A 1 x 3/16 A
SCHUKO Sockets	5	6	6	5
FI Switch (RCCB)	1 x 4/25/0.03 A	1 x 4/25/0.03 A	1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	1 x 16 A, 3-pole C 3 x 16 A, 1-pole C	1 x 16 A, 3-pole C 3 x 16 A, 1-pole C	1 x 16 A, 3-pole C 6 x 16 A, 1-pole B	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 3 x 16 A, 1-pole C
Supply Cable	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A
Art.-No.	Z 58.12	Z 58.16	Z 58.18	Z 58.17
Note:		Stock Item	Stock Item	

Fitted with				
CEE Sockets	2 x 5/16 A	1 x 5/32 A 1 x 5/16 A	1 x 5/32 A 3 x 5/16 A	
SCHUKO Sockets	6	6	3	
FI Switch (RCCB)	1 x 4/25/0.03 A	1 x 4/40/0.03 A		
LS Switch/Fuse	1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	1 x 16 A, 3-pole C 3 x 16 A, 1-pole B	3 x 16 A, 3-pole C 3 x 16 A, 1-pole B	
Supply Cable				
Power Supply	Appliance Plug 5/16 A	Appliance Plug 5/32 A	Appliance Plug 5/32 A	
Art.-No.	Z 58.72	Z 58.48	Z 58.74	ZR50.00
Note:				

RUBBER FREE-STANDING DISTRIBUTION UNITS

SERIES
68

HOUSING DIMENSIONS

W x H x D 300 x 306 x 240 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements

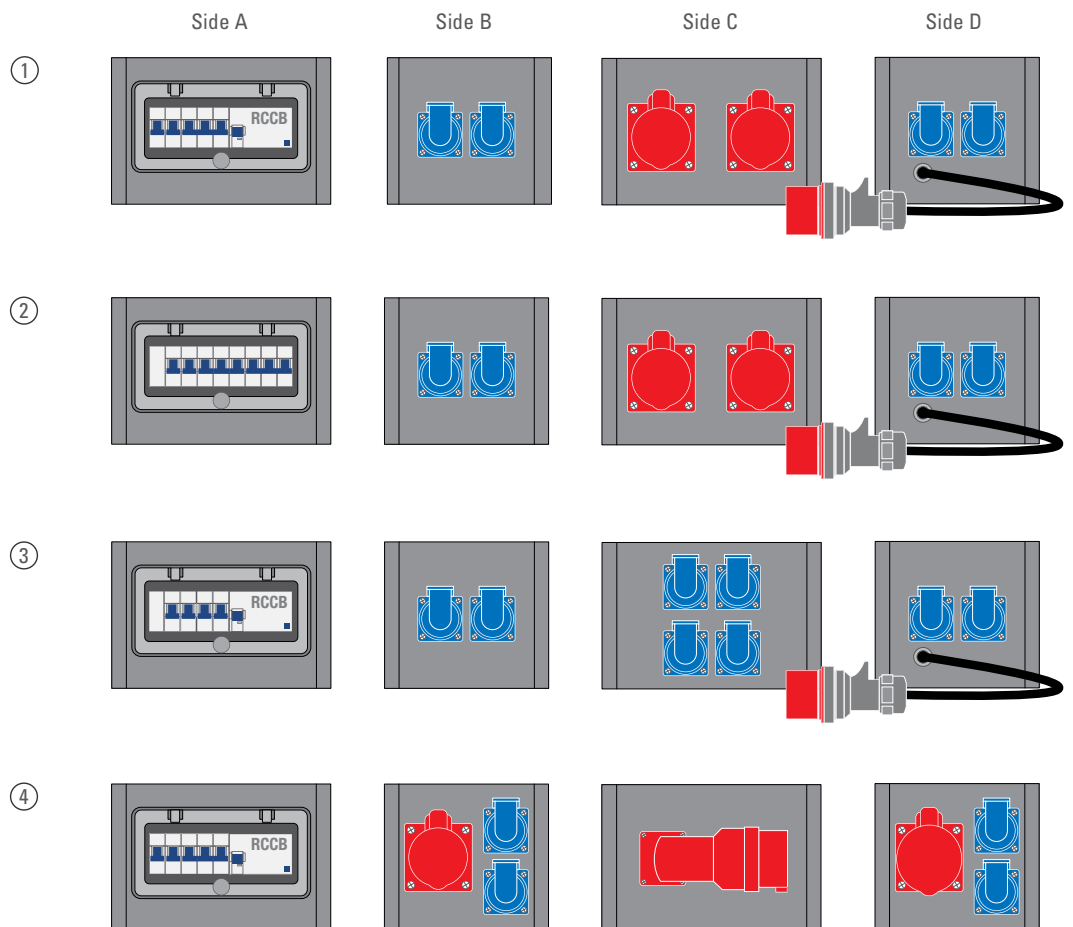


HOUSING ONLY

with window and mounting rail for 9 HP

black
ART.-NO. B 68.01
orange
ART.-NO. B 68.11

Black, without window
ART.-NO. B 68.00
orange
ART.-NO. B 68.10



Rubber Free-standing Distribution Units Combinations

Fitted with	①	②	③	④
CEE Sockets	2 x 5/16 A	2 x 5/16 A		1 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	4	4	8	4
FI Switch (RCCB)	1 x 4/40/0.03 A		1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	2 x 16 A, 3-pole C 2 x 16 A, 1-pole B	4 x 16 A, 1-pole B	1 x 16 A, 3-pole C 2 x 16 A, 1-pole B
Supply Cable	2 m H07RN-F 5x2.5mm ² with CEE Plug 5/16 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A	2 m H07RN-F 5x6mm ² with CEE Plug 5/32 A	
Power Supply				Appliance Plug 5/32 A
Art.-No. black	Z 68.35	Z 68.16	Z 68.54	Z 68.42
Art.-No. orange		Z 68.06		
Note:	Stock Item			Stock Item

RUBBER FREE-STANDING DISTRIBUTION UNITS

SERIES
68

HOUSING DIMENSIONS

B x H x T 300 x 456 x 240 mm



HOUSING ONLY

with two windows and
mounting rails for 2 x 9 HP

black

ART.-NO. B 68.02

orange

ART.-NO. B 68.12

SERIES
78

HOUSING DIMENSIONS

W x H x D 370 x 331 x 370 mm



HOUSING ONLY

without window

black

ART.-NR. B 78.00

orange

ART.-NR. B 78.10

HOUSING DIMENSIONS

B x H x T 370 x 486 x 370 mm



HOUSING ONLY

with 2 windows and mounting
rails for 2 x 12 HP

black

ART.-NO. B 78.02

orange

ART.-NO. B 78.12

RUBBER FREE-STANDING DISTRIBUTION UNITS

SERIES
78

HOUSING DIMENSIONS

W x H x D 370 x 331 x 370 mm
(without additions)

Fitted with the standard combination or a configuration tailored to your specific requirements



HOUSING ONLY

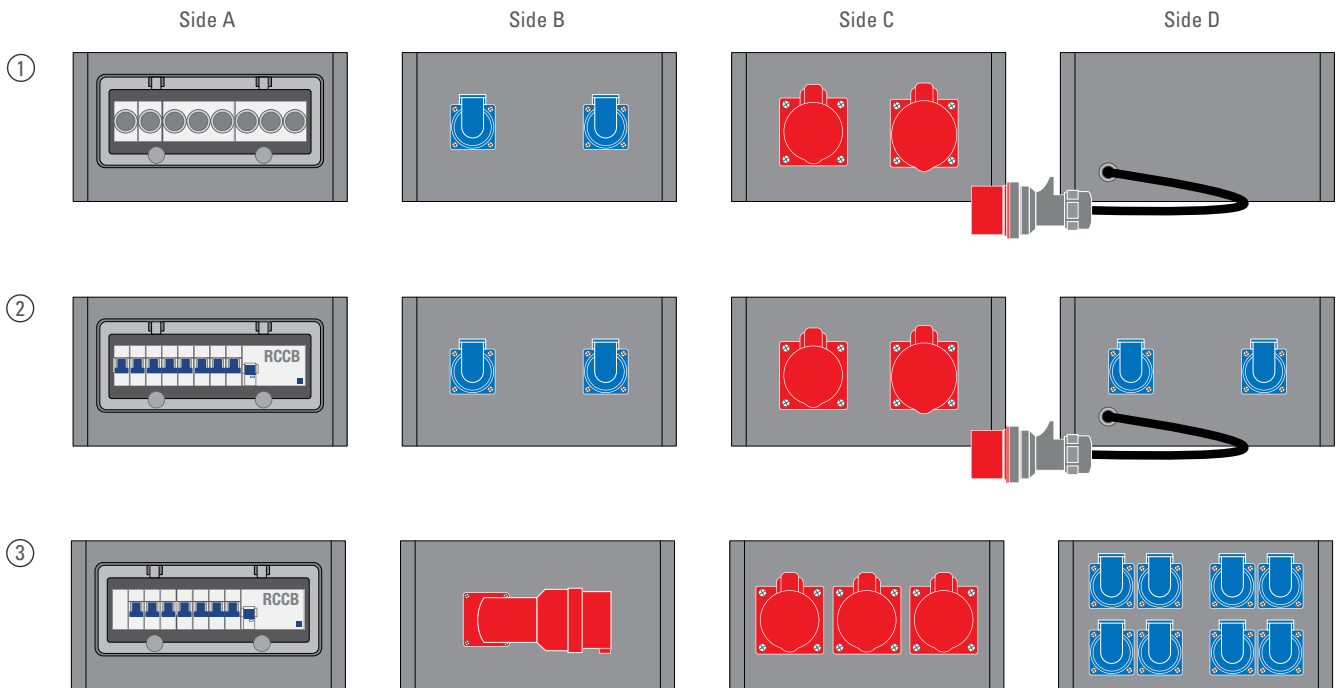
with window and mounting rail for 12 HP

black

ART.-NO. B 78.01

orange

ART.-NO. B 78.11



Rubber Free-standing Distribution Units Combinations

Fitted with	①	②	③
CEE Sockets	1 x 5/16 A + 1 x 5/32 A	1 x 5/16 A + 1 x 5/32 A	2 x 5/16 A + 1 x 5/32 A
SCHUKO Sockets	2	4	8
FI Switch (RCCB)		1 x 4/40/0.03 A	1 x 4/40/0.03 A
LS Switch/Fuse	Neozed Fuse Sockets 1 x 63 A, 3-pole 1 x 16 A, 3-pole 2 x 16 A, 1-pole	1 x 32 A, 3-pole C 1 x 16 A, 3-pole C 2 x 16 A, 1-pole B	1 x 16 A, 3-pole C 4 x 16 A, 1-pole B
Supply Cable	2 m H07RN-F 5x6 mm ² with CEE Plug 5/32 A	2 m H07RN-F 5x6 mm ² with CEE Plug 5/32 A	
Power Supply			Appliance Plug 5/32 A
Art.-No. black	Z 78.08	Z 78.16	Z 78.46
Art.-No. orange		Z 78.06	

EVENTLINE FOR EVENTS AND STAGING



We will configure the black socket outlet combinations in our EventLine range to your individual requirements. Contact us at: kombis@abl-sursum.com

EVENTLINE SOCKET COMBINATIONS



PORTABLE SOCKET OUTLET CASE (RUBBER) Series 58



RUBBER FREE-STANDING DISTRIBUTION UNIT Series 68 and 78



RUBBER POWER STRIP Serie 48

THE **EVENTLINE** RANGE INCLUDES THE FOLLOWING ADD-ON COMPONENTS:

SCHUKO FLUSH-MOUNTED SOCKETS

Chapter 7, Page 34

INDUSTRIAL GRADE CONNECTORS

Chapter 10, Page 88





ABL SURSUM

eMOBILITY

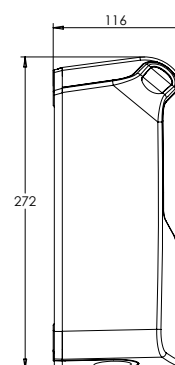
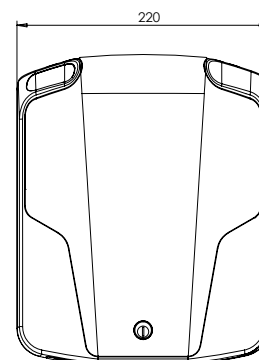
Charging Stations

Electric Mobility Home	164
Electric Mobility City	166
Electric Mobility Business	167
Accessories for Charging Stations	169



CHARGING STATION eMH1 (ELECTRIC MOBILITY HOME) HOME CHARGING STATION

- Charging Station pre-installed and ready to connect
- Standard or spiral charging cable
- Recharge connector Type 1 (single phase) or
- Recharge connector Type 2 (1/3 phase) or
- Recharge Socket Type 2 (1/3 phase)
- up to 16A 230V / 400 V
- Integrated, electronic Mode 3 pilot contact according to IEC 61851-1
- LED charging status indicator
- Lockable cover (Switching device access)
- Integrated safety switches
- Integrated FI / LS Switch (RCBO) Type A and Contactor



Charging Station eMH1

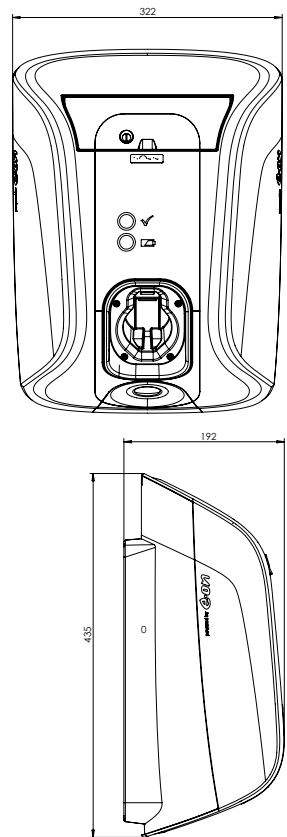
Specifications	EVSE501	EVSE502	EVSE503	EVSE504
Compliance	According to IEC 61851-1/22			
Power supply	single-phase 230 V / 16 A, 50 Hz	3-phase 400 V / 16 A, 50 Hz	3-phase 400 V / 16 A, 50 Hz	single-phase 230 V / 16 A, 50 Hz
Supply voltage	230 V	400 V	400 V	230 V
Output current	16 A	16 A	16 A	16 A
Max. charging capacity	3.5 KW	11 KW	11 KW	3.5 KW
Recharge socket IEC 62196-2 compliant	-	Type 2	-	-
Recharge Connector complies with IEC 62196-2	-	-	Type 2	Type 2
Recharge Connector complies with SAE1772	Type 1	-	-	-
Charging cable	Standard cable, Length: 5 m	-	Standard cable, Length: 5 m	Coiled cable, Length: 0.8 - 4 m
EVCC Control unit	IEC 61851-1 Mode 3 compliant, RS485-I/F interface			
Terminals	up to 2.5 mm ²			
Ambient temperature	-25°C to 50°C			
Storage temperature	-30°C to 85°C			
Relative humidity	5 to 95% (no condensation)			
Protection rating	I			
Overvoltage category	III			
Protection rating housing	IP54			
Dimensions in mm	h = 272, w = 220, d = 106			
Weight / unit	2920 g	2270 g	3950 g	3360 g



CHARGING STATION EMH2 (ELECTRIC MOBILITY HOME) HOME CHARGING STATION

- Charging Station pre-installed and ready to connect
- Standard charging cable
- Recharge connector Type 1 (single phase) or
- Recharge connector Type 2 (1/3 phase) or
- Recharge Socket Type 2 (1/3 phase)
- up to 16A 230V / 400 V
- Integrated electronic Mode 3 pilot contact complies with IEC 61851-1
- LED stand-by indicator
- LED recharge indicator
- Lockable cover (Switching device access)
- Integrated safety switches
FI / LS Switch (RCBO) Type A and Contactor

powered by **e-on**



Charging Station eMH2

Specifications	EVSE131	EVSE231	EVSE234
Compliance	IEC 61851-1/22		
Power supply	single-phase 230 V / 16 A, 50 Hz	3-phase 400 V / 16 A, 50 Hz	3-phase 400 V / 16 A, 50 Hz
Supply voltage	230 V	400 V	400 V
Output current	16 A	32 A	16 A
Max. charging capacity	3.5 KW	22 KW	11 KW
Recharge socket IEC 62196-2 compliant	-	Type 2	-
Recharge Connector complies with IEC 62196-2	-	-	Type 2
Recharge Connector complies with SAE1772	Type 1	-	-
Charging cable	Standard cable, Length: 5 m	-	Standard cable, Length: 5 m
EVCC Control unit	IEC 61851-1 Mode 3 compliant, RS485-I/F interface		
Terminals	up to 6 mm ²		
Ambient temperature	-25°C to 50°C		
Storage temperature	-30°C to 85°C		
Relative humidity	5 to 95% (no condensation)		
Protection rating	I		
Overvoltage category	III		
Protection rating housing	IP54		
Dimensions in mm	h = 435, w = 320, d = 192		
Weight / unit	dep. on version 2900 g to 4900 g		



**CHARGING STATION
eMC (ELECTRIC MOBILITY CITY)
CHARGING STATION FOR
PUBLIC AREAS**

WITH SCHUKO SOCKET OUTLET

Charging station for electric vehicles to be installed in public areas e.g. underground car parks, multi-storey car parks, hotel / company car parks, and other semi-public areas

- For use with RFID card
- Pre-installed ready for connection

ART. NO.	WEIGHT G/EACH	PACKING UNIT
EVSE301	4.000	1

EVSE301	4.000	1
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**CHARGING STATION
eMC (ELECTRIC MOBILITY CITY)
CHARGING STATION FOR
PUBLIC AREAS**

**WITH SOCKET OUTLET
ACCORDING TO IEC 62196-2, TYPE 2**

Charging station for electric vehicles to be installed in public areas e.g. underground car parks, multi-storey car parks, hotel / company car parks, and other semi-public areas

- For use with RFID card
- Protection provided by residual current circuit breakers and miniature circuit breakers externally

ART. NO.	WEIGHT G/EACH	PACKING UNIT
EVSE401	4.000	1

EVSE401	4.000	1
---------	-------	---

Technical data

Specifications	EVSE301	EVSE401
Compliance	According to IEC 621962	
Supply voltage	230 V / 50 Hz	230 V / 400 V / 50 Hz
Supply current/max. Charging current	16 A	32 A
Recharge socket	DIN 49440 compliant SCHUKO socket	IEC 62196-2, Type 2 compliant socket
Display	2-lne LCD	
Interface	Ethernet RJ45	
Access control	RFID 13,56 MHz (MIFARE)	
User data storage medium	Compact Flash	
	Preconfigured and ready to install with RCD (16A, 0.03 A), power meter and contactor	EV charging procedure complies with IEC 61851-1
Terminals	up to 4 mm ²	up to 6 mm ²
Storage temperature	-30°C...+85°C	
Ambient temperature, during use	-20°C...+40°C	
Relative humidity	5 ... 95% (no condensation)	
Protection rating	I	
Overvoltage category	II	
Resistance class	I	
Protection rating housing	IP54	
Dimensions	503 x 134 x 126 mm	
Weight/unit	4,000 g	



**CHARGING STATION
eMB (ELECTRIC MOBILITY BUSINESS)
CHARGING STATION
FOR PUBLIC INSTALLATIONS**

- Charges up to 4 vehicles simultaneously
- Selection buttons for 4 recharge points
- RFID identification system
- Max. Recharge Load per Connection 22 kW
- Individual charging settings
- LED status indicator above the display
- Language selector German/English
- STOP button

Recharge Point Configuration

- SCHUKO built-in socket 230V 16 A with contact detector
- Recharge Socket Type 2 complies with IEC 62196-2 16 / 32 A 240 / 415 V AC
- Integrated safety switches FI / LS Switch (RCBO) Type A and Contactor

Specifications

Specifications	EVSE6 . .
Complies with	IEC 61851-1/22
Charging Circuits	4
Grid connection per charging circuit max.	3 phase 400 V / 32 A, 50 Hz
Supply Voltage	230V / 400 V
Rated current per charging circuit max.	32 A
Recharge load per socket circuit max.	22 KW
Main connector clamps	5 x 35 mm ²
LED	Monochrome, backlit graphical display
User identification	RFID 13,56 MHz (MIFARE)
Ambient Temperature	- 25°C to + 50°C
Storage Temperature	- 30°C to + 85°C
Relative Humidity	5% to 95% (no condensation)
Protection Rating	I
Overvoltage Category	II
Housing constructed from	high-quality, powder-coated aluminum or stainless steel
Protection Rating, Housing	IP44
Dimensions in mm	H = 1628, W = 417, D = 242
Weight / Each	ca. 80 kg (8.8 lbs)

Type Code EVSE6

SCHUKO Built-in Socket Outlet
Recharge Socket Type 2



**EVCC
CHARGE CONTROL**

acc. to IEC 61851-1 Mode 3
Charging current pre-set to
16 A can be adjusted via serial
interface from 6 A to 80 A.

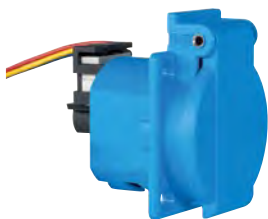
4 modules

ART. NO.	WEIGHT G/EACH	PACKING UNIT
EVCC	220	3

The EVCC module controls the supply of an electric vehicle (EV) during the charging process at EVSE supply equipment. The communication between the EV and EVSE is carried out in accordance with IEC 61851-1 mode 3. The control of the load relay (supply of EV), the locking (for type 2 plug connection) and the external ventilation is implemented by floating switch contacts.

Two external LEDs, connected directly without series resistor, indicate the charging station's status. Default and target charging currents are selected via a network-ready, serial RS485 interface and enable load management. The target charging current can be changed even during the charging process.

ACCESSORIES FOR CHARGING STATIONS



CONTACT DETECTOR FOR BUILT-IN SOCKETS

1561.../1562...

1661.../1662...

16 A / 250 V AC

Contact Detector

1 Changeover Contact

5 A / 250 V AC

3 A / 0-30 V DC

ART. NO.	WEIGHT G/EACH	PACKING UNIT
----------	------------------	-----------------

SW23C2	10	10
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TYPE 2 CHARGING SOCKET

acc. to IEC 621962

32 A 240 / 415 V AC

signal contact 2 A 30 V DC

with electrical interlocking

solenoid 12 V / 200 mA DC

splash-proof IP44

ART. NO.	WEIGHT G/EACH	PACKING UNIT
----------	------------------	-----------------

LAD32AV	350	1
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TYPE 2 CHARGING CABLE

acc. to IEC 621962

32 A 240 /415 V AC

length 3 m

splash-proof IP44

ART. NO.	WEIGHT G/EACH	PACKING UNIT
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LAK32A3	2.200	1
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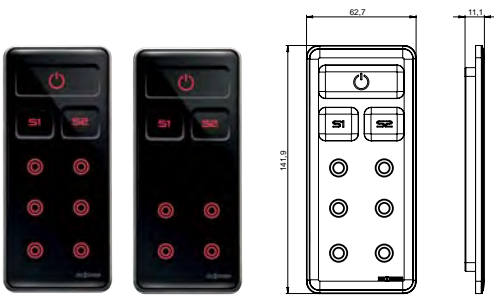


BAVARIA YACHTS

CARAVAN & BOAT

Light control system	172
Electricity Supply systems	173

LIGHT CONTROL SYSTEM



SLS LIGHT CONTROL SYSTEM (SCENARIO LIGHT SYSTEM)

Scope of supply:
 1 panel 8 functions
 1 panel 6 functions
 1 control box 12 V
 2 control lines 2 metres

ARTICLE NO.	WEIGHT [G/EACH]	PACKING UNIT
SLS099F	750	1

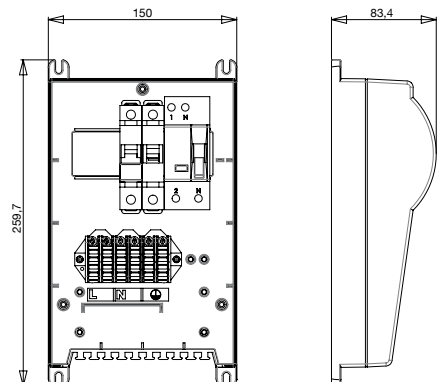
Innovative lighting management for different light scenarios for caravans and boats. Electronic control centre can be assigned a total of 8 light circuits (channels). Touch panels with coming home function (pre-defined basic lighting is switched on) and central OFF function. This function enables all the lighting to be switched off with one button. Black gloss touch panels in an ultra-flat design with illuminated symbols and chrome-plated frames.



CARAVAN DISTRIBUTION BOARD

for 6 modular spaces (HP)
 fully pre-wired
 Equipped with:
 Residual current circuit breakers
 2-pole 25 A 0.03 A
 Miniature circuit breakers
 2-pole B, 13 A

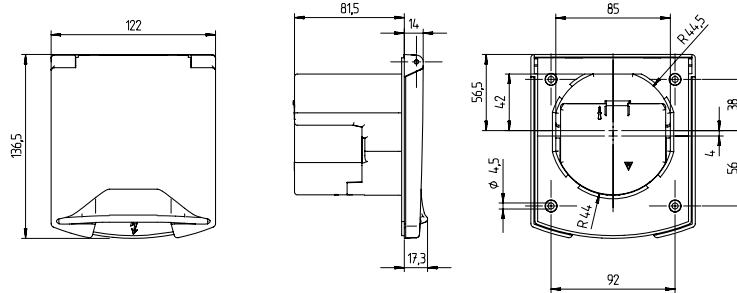
ARTICLE NO.	WEIGHT [G/EACH]	PACKING UNIT
CV601	870	1





FEED PLUG

splash-proof IP44
UV-resistant



VOLTAGE	230 V~
DESIGNATION	6h

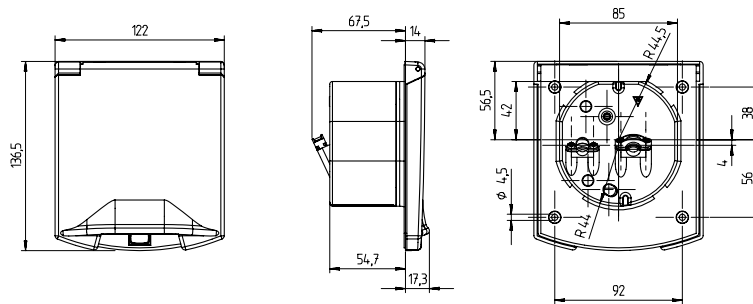
AMPERE	POLES	ARTICLE NO.	COLOUR	WEIGHT [G/EACH]	PACKING UNIT
16	3	1164200	black	264	10
16	3	1164010	white	264	10



MULTIFUNCTIONAL SOCKET

SPLASH PROOF IP44

12 V DC socket outlet
SAT socket outlet
Antenna socket outlet
SCHUKO socket outlet or
socket outlet according to CEE 7/V
UV-resistant



TYPE OF SOCKET OUTLET 230V	AMPERE	VOLTS	ARTICLE NO.	COLOUR	WEIGHT [G/EACH]	PACKING UNIT
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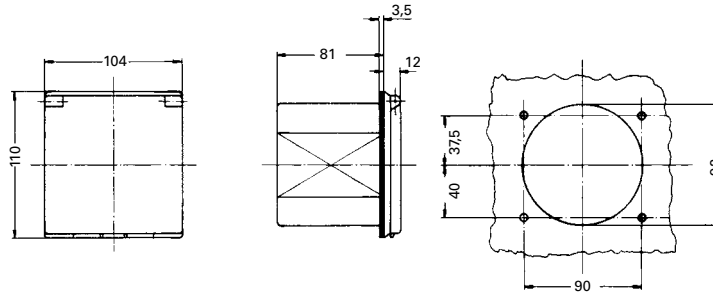
SCHUKO	16	230	1165010	white	274	10
Socket outlet acc. to CEE 7/V	16	230	1165017	white	274	10
British Standard acc. to 1363	13	250	1165500	white	274	10

other country specific socket outlets available upon request



FEED PLUG

splash proof IP44



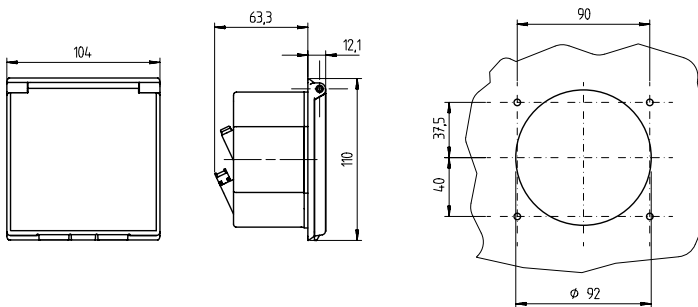
VOLTAGE	230 V~
DESIGNATION	6h

AMPERE	POLES	ARTICLE NO.	COLOUR	WEIGHT [G/EACH]	PACKING UNIT
16	3	1154200	black	213	10
16	3	1154210	white	213	10



MULTIFUNCTIONAL SOCKET SPLASH-PROOF IP44

12 V DC socket outlet
SAT socket outlet
Antenna socket outlet
SCHUKO socket outlet



TYPE OF SOCKET 230V	AMPERE	VOLTS	ARTICLE NO.	COLOUR	WEIGHT [G/EACH]	PACKING UNIT
SCHUKO	16	230	1155010	white	185	10



CARAVAN WALL-MOUNTED INLET

- splash proof IP44
- with self-closing hinged lid
- with seal, 16A 3p 230V

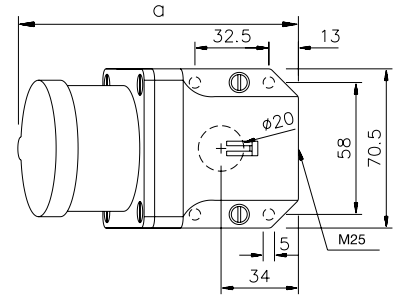
ARTICLE NO. G31S21

Packing unit: 10 pieces

nickel-plated contacts:

ARTICLE NO. G31V21

b=Height
Angle=15°
a: 128 mm
b: 92 mm
Weight: 240 gr



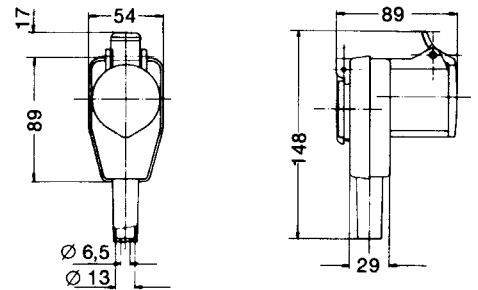
CARAVAN ANGLE CONNECTOR

splash proof IP44

- with integrated SCHUKO socket outlet 16A 3p 230V

ARTICLE NO. 1072050

Packing unit: 10 pieces



CARAVAN ADAPTER

IP20

- SCHUKO plug with 2 earthing systems / CEE socket outlet
- nickel-plated contacts

ARTICLE NO. ADPS312

Packing unit: 10 pieces

Input:

1 plug 16A 2p+E 250V
(with 2 earthing systems)

Output:

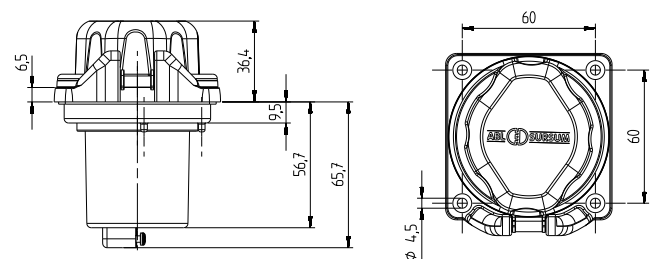
1 CEE socket outlet 16A 3p 230V

turn2fix



FEED PLUG FOR BOATS

16 A 230 V, 3-pole
patented interlocking
extremely flat design
high-quality design
chrome-plated surface
IP66 degree of protection



ARTICLE NO.	WEIGHT [G/EACH]	PACKING UNIT
-------------	-----------------	--------------

1168160	185	10
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APPENDIX

Technical information

Test marks and certifications 178

IP degrees of protection acc. to EN 60529 179

Sales and Delivery Terms and Conditions 180

Article number directory 185

TEST MARKS AND CERTIFICATIONS

The international certifications of our products are a prerequisite for ABL SURSUM's high export ratio. For this purpose, independent testing authorities – such as the VDE testing and certification institute – create protocols/ reports according to the CCA or CB procedure.

Approval from the country certification agencies that have approved ABL SURSUM products.

	GERMANY		AUSTRIA		SWEDEN		USA
	GERMANY		SWITZERLAND		NORWAY		USA / CANADA
	BELGIUM		POLAND		SINGAPORE		CANADA
	NETHERLANDS		CZECH REPUBLIC		MALAYSIA		RUSSIA
	FRANCE		FINLAND		USA		CHINA

CE label



The CE label indicates the product safety of certain products according to EU Law. By bearing a CE label, the manufacturer confirms that the product is in compliance with the valid European directives. A CE label does not allow one to see whether the product was inspected by independent agencies as to conformity with regulations. The CE label is not a seal of approval or quality label.





Certified according to DIN EN ISO 9001



LGA InterCert Zertifizierungsgesellschaft mbH's certification audit provided the verification that our quality management system meets the requirements of the DIN EN ISO 9001:2008 standard.

IP DEGREES OF PROTECTION ACC. TO EN 60529

Depending on application and load, switching devices and socket outlet combinations require the appropriate degree of protection. This is characterised by IP and a following number. The first code number specifies the degree of protection against foreign bodies entering; the second code number specifies the degree of protection against water entering. Thus e.g. electrical equipment, which is used unprotected outside, must at least have IPX3.

1st code number	Protection against foreign bodies entering	2nd code number	Protection against water entering with damaging effects	Symbol
0	Not protected	0	Not protected	
1	Protected against foreign bodies Ø 50 mm and bigger Protection against touching dangerous parts with the back of the hand.	1	Protected against dripping water Definition: Drops falling vertically must not have any damaging effects.	
2	Protected against foreign bodies Ø 12,5 mm and 80 mm long The structured test item must be a sufficient distance from dangerous parts.	2	Protected against dripping water up to 15° to the vertical Definition: Drops falling vertically must not have any damaging effects if the housing is angled up to 15° on both sides of the vertical.	
3	Protected against foreign bodies Ø 2,5 mm and bigger Protection against touching dangerous parts with a tool (The touch probe of 2.5 mm diameter must not be able to enter).	3	Protected against spray water up to 60° to the vertical Definition: Water that is sprayed at an angle of up to 60° on both sides of the vertical must not have any damaging effects.	
4	Protected against foreign bodies Ø 1 mm and bigger (The touch probe of 1.0 mm diameter must not be able to enter)	4	Protected against splash water from all directions Definition: Water that splashes against the housing from all directions must not have any damaging effects.	
5	Dust-protected Protection against touching dangerous parts with a wire (Restricted protection against dust deposits in the inner appliance).	5	Protected against jet water from all directions Definition: Water that is directed as a jet against the housing from all directions must not have any damaging effects.	
6	Dust-proof Protection against touching dangerous parts with a wire (No infiltration of dust in the inner appliance).	6	Protected against strong jet water Definition: Water that is directed as a strong jet against the housing from all directions must not have any damaging effects.	
		7	Protected against the effects when submerged temporarily under specified pressure and time conditions Definition: Water must not enter in an amount which causes damaging effects if the housing is temporarily submerged in water under standardised pressure and time conditions.	
		8	Protected against the effects when submerged long-term under specified pressure for a defined period of time Definition: Water must not enter in an amount which causes damaging effects if the housing is submerged long-term under water, under conditions which must be agreed on between manufacturer and user. The conditions must, however, be more difficult than those for code number 7.	

Example IP 44:

1st Parameter = 4 (Protection against foreign bodies larger than 1 mm Ø)

2nd Parameter = 4 (Protection against splash water from all directions)

ABL SURSUM Bayerische Elektrozubehör GmbH & Co. KG General Sales and Delivery Terms and Conditions

1. Scope

- 1.1 These General Terms and Conditions form part of the contract between the seller/supplier (ABL SURSUM, „Seller“ in the following) and the buyer/recipient („Buyer“ in the following).
- 1.2 Deviations from these General Terms and Conditions or from special conditions or instructions or changes to drawings, explanations and similar documents are binding upon the Seller only if he or she has accepted them explicitly and in writing.
- 1.3 These General Terms and Conditions remain in force even when individual parts become invalid for any reason.
- 1.4 General Terms and Conditions of the Buyer or of third parties that differ from these General Terms and Conditions, or from special conditions, are not binding upon the Seller even if the Buyer refers to them and the Seller has not objected explicitly in each case.
- 1.5 In the case of ongoing business relationships, these Terms and Conditions also apply to future transactions in which they are not explicitly referred to.

2. Offers and Acceptance of Orders

- 2.1 Orders are only then binding upon us when they have been confirmed by us.
- 2.2 The Seller always confirms orders in writing or by fax, unless delivered or invoiced immediately.
- 2.3 Should the Buyer cancel a contract before manufacture of the goods has been carried out, the Seller has the right to demand a 10% cancellation fee from the Buyer in place of contract fulfillment. However, the Seller still has the right to fulfillment of the contract independently of this clause.

3. Prices

- 3.1 Where in doubt, prices are ex factory and exclude freight, duty, import taxes and fees as well as packaging, and attract VAT at the legislated rate.
- 3.2 Prices are considered in the currency set out in the respective order confirmation and invoicing documents.
- 3.3 Unless agreed otherwise, the Seller reserves the right to increase the agreed prices by a proportional amount based on their increased costs if general economic conditions change, especially in case of wage increases, rising commodity and auxiliary goods prices, taxes, transport costs and currency exchange rates.
- 3.4 In case of new (subsequent) orders, the Seller is not bound to previous prices.

4. Commercial Protective, Intellectual Property and Copyrights

- 4.1 Sales documentation provided by the Seller such as designs, drawings, clichés and films remain the property of the Seller, even if the Buyer pays for a proportion of their costs.
- 4.2 The Seller reserves his unrestricted property and copyright to quotations, drawings and other documents („Documents“ in the following). Documents may only be provided to third parties with the prior permission of the Seller and must be returned immediately on his request in case no order is placed. These two clauses also apply to Documents of the Buyer. Such Documents, however, may be made available to third parties whom the Seller has lawfully charged with carrying out deliveries.

GENERAL SALES AND DELIVERY TERMS AND CONDITIONS

5. Delivery

- 5.1 Delivery occurs at the Buyer's own risk and is invoiced to the Buyer, even if the Seller carries some or all of the transport costs.
- 5.2 Delivery periods begin after the receipt of all Documents necessary to fulfill an order, the Buyer's final version of the order and / or the deposit, if one has been agreed upon.
- 5.3 Delivery periods are approximate.
- 5.4 In case of order amendments, the Seller is no longer bound by the delivery period originally indicated and confirmed.
- 5.5 In case of force majeure such as natural disaster, government intervention, reduced availability of commodities, operational faults, transport difficulties, strike, lock-out or other disruptions to operations etc., the Seller reserves the option to extend the delivery period accordingly or to cancel the contract.
- 5.6 Should the goods not be delivered by the end of the delivery period, including if the Seller is responsible for missing the deadline, the Buyer must, by registered mail, grant the Seller an extension of 20 working days before cancelling the contract.
- 5.7 No damages may be claimed as a result of missed delivery deadlines.
- 5.8 Amendments to orders, changes to quantities of goods or deletions can only be accepted as long as no costs have been incurred. In all other cases such costs will be invoiced to the Buyer.
- 5.9 On-demand orders must be received within the agreed period. Quantities that have not been accepted by the end of this period will be invoiced and payment will become due.
- 5.10 In case of on-demand orders without agreed periods, quantities, lot sizes and receiving dates, the Seller has the right to demand agreement on these at the latest three months after order confirmation. Should the Buyer not comply with this requirement within three weeks, the Seller has the right to grant an extension of two weeks and at their expiry to cancel the contract and/or claim damages.
- 5.11 As long as the Buyer is in arrears, the Seller's obligations to deliver are suspended.

6. Packaging

- 6.1 Unless otherwise agreed, the Buyer selects packaging, transport means and transport routes.
- 6.2 Where goods are invoiced by weight, the price is calculated on the gross weight if tissue and wrapping paper are used.
- 6.3 Special, non-customary packaging will be invoiced separately.
- 6.4 The goods will be insured against risks named by the Buyer, at the Buyer's written request and at the Buyer's cost.

7. Conditions of Transport

- 7.1 Transport and loading are always at own risk, i.e. uninsured and at the risk of the Buyer, unless otherwise agreed.
- 7.2 Delivery Arrangements We will endeavor to consider the Buyer's requests regarding means of transport and transport route. Any additional costs so incurred - even in cases where delivery is included in the price - are to be paid by the Buyer.
- 7.3 No delivery details may be passed on to unauthorized third parties.

8. Quality Guidelines for Manufacture and Delivery

8.1 Tolerances

We manufacture using quality assurance processes that comply with or exceed ISO 9001 requirements. We manufacture on the basis of current testing and assessment guidelines including the tolerances for deviations in weight, size and quantity indicated therein.

8.2 Raw Materials

8.2.1 In the absence of any special instructions from the Buyer, orders will be filled using the raw materials and manufacturing processes usually employed in the industry. The Buyer must indicate requirements that exceed usual trade quality standards explicitly and at the time an order is placed. If such quality requirements have not been indicated to us at the time of writing the quotation, this may lead to adjustments in price.

8.2.2 For this reason, the Buyer may not make claims for faulty products in relation to reactions between packaging materials and goods if he/she has not explicitly indicated any special properties of the goods which may result and has not provided the Seller with an opportunity to comment.

8.3 Production Process

The Seller reserves the right to change the production process unless the Buyer demands restrictions to such changes or obligations to provide information about them.

8.4 Quantity Tolerances

The Seller reserves the right to a delivery tolerance of 10% over- or undersupply in relation to the quantity ordered. The Buyer cannot demand additional delivery in case of undersupply or return of goods in case of oversupply.

9. Reservation of Ownership

9.1 Goods delivered remain the sole property of the Seller until the Buyer has satisfied all of the Seller's entitlements, even if the purchase price has been paid for specifically named goods or services. The reserved ownership of delivered goods that are the subject of current invoices (reserved goods) represents the Seller's security for the outstanding amount. If a bill of exchange is drawn up in relation to payment of the purchase price, then the reservation of ownership does not expire before payment of the bill of exchange by the Buyer.

9.2 Processing or transformation of goods by the Buyer occurs on behalf of the Seller and under exclusion of Acquisition of Ownership according to section 950 of the German Civil Code. The Seller becomes co-owner of the resulting goods according to the ratio of the net value of his goods to the net value of the transformed or processed goods. The resulting goods represent the Seller's security for his contractual entitlements described in 9.1.

9.3 In case of processing (combination/intermixture) of goods by the Buyer, using other goods not belonging to the Seller, sections 947 and 948 of the German Civil Code apply. It follows that the Seller's co-owned portion of the goods now represents the goods under reservation of ownership according to these Terms and Conditions.

9.4 The Buyer may on-sell such reserved goods only in ordinary business transactions and under the condition that he/she also agrees to a reservation of ownership clause according to 9.1 – 9.3 with his customers. The Buyer has no right to exercise ownership of reserved goods in other ways, particularly as pledges or securities.

9.5 In case of onward sale, the Buyer hereby immediately transfers to the Seller, until all his contractual obligations to the Seller are fulfilled, the receivables and any other legal entitlements due to him from his customers as a result of the onward sale. On the Seller's request, the Buyer is obliged to provide the Seller promptly with all information and documentation necessary for the Seller to claim the entitlements due to him from the Buyer's customers.

9.6 If the reserved goods, after processing or transformation according to 9.2 and/or 9.3, are sold on by the buyer together with other goods not belonging to the Seller, then the transfer of receivables according to 9.5 only refers to the amount invoiced for the Seller's reserved goods.

GENERAL SALES AND DELIVERY TERMS AND CONDITIONS

- 9.7 Should the value of the Seller's existing securities be more than 10% higher than the Seller's total receivables, the Seller must, at the request of the Buyer, release securities of the Buyer's choice accordingly.
- 9.8 The Seller must be informed immediately of any garnishment or seizure of reserved goods by third parties. All resulting costs of intervention, unless carried by third parties, will be carried by the Buyer.
- 9.9 Should the Seller make use of his reservation of ownership rights resulting from the Terms and Conditions above by taking back reserved goods, he has the right to freely sell or auction such goods. Reserved goods are returned at the sales or auction result achieved, but no more than at the agreed delivery prices. The right to make further claims for damages, especially for lost profit, is reserved.

10. Faulty Goods Claims

- 10.1 Claims regarding faulty goods must be made immediately and one week after receipt of the goods at the delivery destination at the latest, and in writing, citing the reason for the claim and submitting examples as well as a specific identification of the batch using the delivery note or invoice number.
- 10.2 The Seller's guarantee of the delivered goods takes the form of either repair or free replacement, as chosen by the Buyer. In such cases the faulty items are to be returned to the Seller.
- 10.3 The Buyer must give the Seller the opportunity to inspect goods claimed to be faulty in situ.
- 10.4 Faulty goods forming part of a batch do not confer the right to replacement of the whole batch.
- 10.5 Compensation can in no case exceed the value of the goods delivered.
- 10.6 Compensation for consequential losses is excluded.
- 10.7 In fully automated production processes, items are counted mechanically. In such cases the Seller has right to use these automated counts for deliveries and invoicing.
- 10.8 The Buyer must store the delivered goods appropriately, i.e. in a dry place and protected from humidity, direct sunlight and extreme temperature changes. Inappropriate storage results in the exclusion of any damage claims or warranties.
- 10.9 Any unauthorized amelioration or inappropriate handling results in the exclusion of all faulty goods claims. Only in case of a risk of disproportionate damage or delays in the repair or replacement by the Seller, may the Buyer, after informing the Seller, ameliorate goods and claim any reasonable costs resulting.
- 10.10 Recourse rights according to sections 478 and 479 of the German Civil Code only apply where their use by the consumer was lawful and then only to the extent of the law, but not in relation to flexibility clauses not agreed with the Seller. Recourse rights require compliance with the stated duties of the person seeking recourse, in particular those regarding faulty goods.

11. Payment

- 11.1 All payments are in Euro and are to be paid to the Seller only.
- 11.2 Unless agreed otherwise, the purchase price for goods and / or services is due without deductions within 30 days from the invoicing date.
- 11.3 If this period is exceeded, the Buyer is considered in arrears without payment reminder. Irrespective of other rights, the Seller may charge interest on arrears at a rate 5% above the current basic interest rate of the European Central Bank.
- 11.4 Offsetting and retention rights are excluded.
- 11.5 Bills of exchange and checks are only accepted in order to settle claims. Payment by bill of exchange or check requires special agreement. The buyer is responsible for interest and other costs arising from discounting or the inclusion of bills of exchange or checks, and must pay them in cash immediately.
- 11.6 Non-compliance with the Terms and Conditions of payment that indicates a diminished credit rating on the part of the Buyer, and which are only revealed to the Seller after the signing of the contract, result in all payments, even those having been deferred, becoming due immediately. Should bills of exchange not yet have been cashed in such cases, the Seller is nevertheless entitled to immediate cash payment.

12. Cancellation

Events that significantly - whether entirely or partly - alter the business principles underpinning the sales contract, whether they affect the Buyer or the Seller, or one of the Seller's suppliers, result in the Seller's right to amend the contract wholly or in parts according to such changed circumstances.

13. Export Regulations

Goods offered for sale by ABL SURSUM Bayerische Elektrozubehör GmbH & Co. KG may be subject to European/German export regulations or US export regulations. All exports subject to such regulations require the approval of the relevant authorities.

14. Other

DSD (Duales System Deutschland – "Green Dot") fees: the seller does in principle not pay any DSD license fees unless individual special agreements are in force.

15. General Disclaimer

In all cases where the Seller, by derogation from the above Terms and Conditions, may be under obligation to pay damages on the basis of a contract or law, he is liable only as far as he, his management personnel or persons assisting him in fulfilling contractual obligations are responsible for intentional or reckless conduct or for injury to life, body or health. The liability independent of guilt according to product liability law and the liability to comply with product integrity remain unencumbered. The liability in relation to being responsible for breaching essential contractual obligations also remains unencumbered. The Terms and Conditions above do not imply shifts in the burden of proof to the Buyer's disadvantage.

16. Jurisdiction and Governing Law

- 16.1 By placing an order, the Buyer fully agrees to comply with the above Terms and Conditions. Contrary Terms and Conditions of the Buyer are invalid, even if we do not object to them. Other, verbal agreements are only valid if confirmed by us in writing.
- 16.2 Jurisdiction is solely determined by the location of company headquarters or the Seller's seat of management. However, the Seller also reserves the right to choose to file court cases at his branch locations or the Buyer's place of residence.
- 16.3 German law applies exclusively. The application of the United Nations Convention on Contracts for the International Sale of Goods (Vienna Convention on the Sale of Goods) dated 11/04/1980 (German Legislative Gazette 1989, page 586) for the Federal Republic of Germany (German Legislative Gazette 1990, page 1477) is excluded.

Current as at March 2012

The publication of this catalogue renders all previous catalogue invalid. Technical alterations and errors reserved.

ARTICLE NUMBER DIRECTORY

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
4060	17	1199592	19	1479040	12	2451510	48
1072050	175	1400380	16	1479070	12	2491010	48
1101000	36	1400390	16	1479090	12	2504210	46
1101010	36	1418000	15	1479091	19	2505010	47
1101200	37	1418050	15	1479092	19	2505018	47
1101210	37	1418060	15	1479291	19	2505110	47
1107100	16	1418080	15	1479292	19	2505210	47
1107110	16	1419140	12	1489090	12	2506110	47
1111000	36	1419170	12	1491008	17	2510310	47
1111010	36	1419190	12	1491010	17	2518610	47
1111400	36	1428150	15	1492008	17	8632316	43
1111410	36	1428160	15	1492010	17	8798416	43
1111412	38	1428180	15	1493008	17	8899749	149
1111510	36	1429190	12	1493010	17	8899759	149
1111610	36	1439190	12	1561000	34	8899779	149
1111710	37	1461000	35	1561030	34	8975609	14
1111712	38	1461002	39	1561040	34	8975629	19
1111810	37	1461005	40	1561050	34	8987296	14
1115000	16	1461006	40	1561060	34	1461SB	43
1115007	16	1461007	43	1562000	34	1471AUM	26
1115010	16	1461040	35	1562030	34	1471ESM	26
1115017	16	1461050	35	1562040	34	1471MSM	26
1116100	16	1461052	39	1562050	34	1471PLM	26
1116110	16	1461057	43	1562060	34	1561 ZES	34
1121500	11	1461060	35	1632490	30	1632AUM	28
1121540	10	1461062	39	1632497	30	1632ESM	28
1121560	10	1461066	40	1632500	29	1632MSM	28
1129190	14	1461067	43	1632602	29	1632PLM	28
1149190	13	1461100	35	1662000	35	2505ZKS	47
1149290	13	1461102	39	1662030	35	310D062	41
1154200	174	1461140	35	1662040	35	310D066	41
1154210	174	1461150	35	1662050	35	315D062	41
1155010	174	1461152	39	1662060	35	315D066	41
1164010	173	1461160	35	1679000	15	320D066	41
1164200	173	1461162	39	1679002	20	3E 1561	149
1165010	173	1461300	35	1679050	15	3E31.24	148
1165017	173	1461350	35	1679060	15	3E32.23	148
1165500	173	1461360	35	1679062	20	3E51.34	148
1168160	175	1461965	40	1679080	15	3E52.34	148
1169090	13	1462002	39	1679082	20	432D060	41
1169290	13	1462052	39	1694010	17	440D060	41
1173503	11	1462102	39	1976850	18	450D060	41
1173543	11	1462152	39	1977751	18	4E 1561	149
1173563	11	1462162	39	1977951	18	532D060	41
1176100	16	1471360	30	1979850	18	550D060	41
1176110	16	1471460	30	1987951	18	5E 1561	149
1181500	11	1471461	30	1989850	18	A31S11	61
1181540	10	1471601	27	2201110	48	A31S12	60
1181560	10	1471602	27	2206110	48	A31S13	60
1181600	11	1473092	20	2213510	48	A31S14	60
1181640	10	1473190	14	2300010	49	A31S16	61
1181660	10	1473292	20	2302010	49	A31S21	61
1189090	14	1473592	20	2303110	49	A31S22	60
1189290	14	1473597	20	2307100	49	A31S23	60
1199090	13	1478050	15	2407110	48	A31S24	60
1199290	13	1478060	15	2421110	48	A31S26	61
1199392	19	1478080	15	2441860	48	A31S31	61

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
A31S32	60	A34S85	62	A43S37	62	A52S31	61
A31S33	60	A34S87	62	A43S55	62	A52S32	60
A31S34	60	A34S95	62	A43S57	62	A52S34	60
A31S36	61	A34S97	62	A43S85	62	A52S36	61
A31S51	61	A41S11	61	A43S87	62	A52S51	61
A31S52	60	A41S12	60	A43S95	62	A52S52	60
A31S53	60	A41S13	60	A43S97	62	A52S54	60
A31S54	60	A41S14	60	A44S15	62	A52S56	61
A31S56	61	A41S16	61	A44S17	62	A52S81	61
A31S81	61	A41S21	61	A44S25	62	A52S82	60
A31S82	60	A41S22	60	A44S27	62	A52S84	60
A31S83	60	A41S23	60	A44S35	62	A52S86	61
A31S84	60	A41S24	60	A44S37	62	A52S91	61
A31S86	61	A41S26	61	A44S55	62	A52S92	60
A31S91	61	A41S31	61	A44S57	62	A52S94	60
A31S92	60	A41S32	60	A44S85	62	A52S96	61
A31S93	60	A41S33	60	A44S87	62	A53S15	62
A31S94	60	A41S34	60	A44S95	62	A53S17	62
A31S96	61	A41S36	61	A44S97	62	A53S25	62
A32S11	61	A41S51	61	A51S11	61	A53S27	62
A32S12	60	A41S52	60	A51S12	60	A53S35	62
A32S16	61	A41S53	60	A51S13	60	A53S37	62
A32S21	61	A41S54	60	A51S14	60	A53S55	62
A32S22	60	A41S56	61	A51S14	60	A53S57	62
A32S26	61	A41S81	61	A51S16	61	A53S85	62
A32S31	61	A41S82	60	A51S21	61	A53S87	62
A32S32	60	A41S83	60	A51S22	60	A53S95	62
A32S36	61	A41S84	60	A51S23	60	A53S97	62
A32S51	61	A41S86	61	A51S24	60	A54S15	62
A32S52	60	A41S88	61	A51S26	61	A54S17	62
A32S56	61	A41S91	60	A51S31	61	A54S25	62
A32S81	61	A41S92	60	A51S32	60	A54S27	62
A32S82	60	A41S93	60	A51S32	60	A54S35	62
A32S86	61	A41S94	60	A51S33	60	A54S37	62
A32S91	61	A41S96	61	A51S34	60	A54S55	62
A32S92	60	A42S11	61	A51S36	61	A54S57	62
A32S96	61	A42S12	60	A51S51	61	A54S85	62
A33S15	62	A42S16	61	A51S52	60	A54S87	62
A33S17	62	A42S21	61	A51S53	60	A54S95	62
A33S25	62	A42S22	60	A51S54	60	A54S97	62
A33S27	62	A42S26	61	A51S56	61	ADP050	23
A33S35	62	A42S31	61	A51S81	61	ADP052	23
A33S37	62	A42S32	60	A51S82	60	ADPS312	175
A33S55	62	A42S36	61	A51S83	60	B 45.00	112
A33S57	62	A42S51	61	A51S84	60	B 45.01	151
A33S85	62	A42S52	60	A51S86	61	B 45.02	151
A33S87	62	A42S56	61	A51S91	61	B 45.03	150
A33S95	62	A42S81	61	A51S92	60	B 45.04	111
A33S97	62	A42S82	60	A51S93	60	B 48.00	154
A34S15	62	A42S86	61	A51S94	60	B 48.01	154
A34S17	62	A42S91	61	A51S96	61	B 51.00	113
A34S25	62	A42S92	60	A52S11	61	B 51.01	113
A34S27	62	A42S96	61	A52S12	60	B 52.00	114
A34S35	62	A43S15	62	A52S16	61	B 52.00	115
A34S37	62	A43S17	62	A52S21	61	B 52.01	114
A34S55	62	A43S25	62	A52S22	60	B 52.01	115
A34S57	62	A43S27	62	A52S24	60	B 53.00	116
		A43S35	62	A52S26	61		

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
B 53.01	116	B51S30	136	C32S552	132	C42S252	132
B 54.00	117	B51S35	136	C32S560	134	C42S260	134
B 54.00	118	B51S50	136	C33S153	133	C42S301	131
B 54.01	117	B52S10	136	C33S160	135	C42S302	132
B 54.01	118	B52S20	136	C33S253	133	C42S310	134
B 55.01	152	B52S30	136	C33S253	133	C42S351	131
B 55.02	152	B52S35	136	C33S253	133	C42S352	132
B 58.01	156	B52S50	136	C33S260	135	C42S360	134
B 58.02	156	BS13630	42	C33S260	135	C42S401	131
B 59.00		BWGXXXX	28	C33S260	135	C42S402	132
B 59.02	119	BWKXXXX	26	C33S353	133	C42S410	134
B 60.00	122	C31S101	131	C33S360	135	C42S451	131
B 60.01	125	C31S102	132	C33S553	133	C42S452	132
B 60.01		C31S110	134	C33S560	135	C42S460	134
B 60.02	122	C31S151	131	C41S101	131	C42S501	131
B 60.03	124	C31S152	132	C41S102	132	C42S502	132
B 60.03	125	C31S160	134	C41S110	134	C42S510	134
B 60.04	123	C31S201	131	C41S151	131	C42S551	131
B 68.00		C31S202	132	C41S152	132	C42S552	132
B 68.01	157	C31S210	134	C41S160	134	C42S560	134
B 68.02	158	C31S251	131	C41S201	131	C43S153	133
B 68.10	157	C31S252	132	C41S202	132	C43S160	135
B 68.11	157	C31S260	134	C41S210	134	C43S160	135
B 68.12	158	C31S301	131	C41S251	131	C43S353	133
B 73.01	153	C31S302	132	C41S252	132	C43S453	133
B 78.00	158	C31S310	134	C41S260	134	C43S460	135
B 78.01	159	C31S351	131	C41S301	131	C43S553	133
B 78.02	158	C31S352	132	C41S302	132	C43S560	135
B 78.10	158	C31S360	134	C41S310	134	C44S354	133
B 78.11	159	C31S501	131	C41S351	131	C51S101	131
B 78.12	158	C31S502	132	C41S352	132	C51S102	132
B 88.00	128	C31S510	134	C41S360	134	C51S110	134
B 88.01	128	C31S551	131	C41S401	131	C51S151	131
B 98.00	129	C31S552	132	C41S401	131	C51S152	132
B 98.01	129	C31S560	134	C41S402	132	C51S160	134
B31S10	136	C32S101	131	C41S410	134	C51S201	131
B31S20	136	C32S102	132	C41S452	132	C51S202	132
B31S30	136	C32S110	134	C41S460	134	C51S210	134
B31S50	136	C32S151	131	C41S501	131	C51S251	131
B32S10	136	C32S152	132	C41S502	132	C51S252	132
B32S20	136	C32S160	134	C41S510	134	C51S260	134
B32S30	136	C32S201	131	C41S551	131	C51S301	131
B32S50	136	C32S202	132	C41S552	132	C51S302	132
B41S10	136	C32S210	134	C41S560	134	C51S310	134
B41S20	136	C32S251	131	C42S051	91	C51S351	131
B41S30	136	C32S252	132	C42S052	91	C51S352	132
B41S40	136	C32S260	134	C42S070	91	C51S360	134
B41S50	136	C32S301	131	C42S101	131	C51S501	131
B42S10	136	C32S302	132	C42S102	132	C51S502	132
B42S20	136	C32S310	134	C42S110	134	C51S510	134
B42S30	136	C32S351	131	C42S151	131	C51S551	131
B42S40	136	C32S352	132	C42S152	132	C51S552	132
B42S50	136	C32S360	134	C42S160	134	C51S560	134
B480119	155	C32S501	131	C42S201	131	C52S101	131
B480123	155	C32S502	132	C42S202	132	C52S102	132
B51S10	136	C32S510	134	C42S210	134	C52S110	134
B51S20	136	C32S551	131	C42S251	131	C52S151	131

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
C52S152	132	D12S90	95	D32S82	69	D41S81	69
C52S160	134	D31S10	68	D32S85	70	D41S82	69
C52S201	131	D31S11	69	D32S90	68	D41S85	70
C52S202	132	D31S12	69	D32S91	69	D41S90	68
C52S210	134	D31S15	70	D32S92	69	D41S91	69
C52S251	131	D31S20	68	D32S95	70	D41S92	69
C52S252	132	D31S21	69	D32SL10	68	D41S95	70
C52S260	134	D31S22	69	D32SL20	68	D41SL10	68
C52S301	131	D31S231	72	D32SL30	68	D41SL20	68
C52S302	132	D31S232	72	D32SL50	68	D41SL30	68
C52S310	134	D31S233	72	D32SL80	68	D41SL50	68
C52S351	131	D31S234	72	D32SL90	68	D41SL80	68
C52S352	132	D31S25	70	D33S16	70	D41SL90	68
C52S360	134	D31S30	68	D33S17	71	D42S10	68
C52S501	131	D31S31	69	D33S26	70	D42S11	69
C52S502	132	D31S32	69	D33S27	71	D42S12	69
C52S510	134	D31S35	70	D33S36	70	D42S15	70
C52S551	131	D31S50	68	D33S37	71	D42S20	68
C52S552	132	D31S51	69	D33S56	70	D42S21	69
C52S560	134	D31S52	69	D33S57	71	D42S22	69
C53S153	133	D31S55	70	D33S86	70	D42S231	72
C53S160	135	D31S80	68	D33S87	71	D42S232	72
C53S160	135	D31S81	69	D33S96	70	D42S233	72
C53S353	133	D31S82	69	D33S97	71	D42S234	72
C53S553	133	D31S85	70	D34S17	71	D42S25	70
C53S560	135	D31S90	68	D34S27	71	D42S30	68
C54S354	133	D31S91	69	D34S37	71	D42S31	69
CV601	172	D31S92	69	D34S57	71	D42S32	69
CZ24-48	42	D31S95	70	D34S87	71	D42S331	72
D 51.33	87	D31SL10	68	D34S97	71	D42S332	72
D01S00	95	D31SL20	68	D41S10	68	D42S333	72
D01S10	95	D31SL30	68	D41S11	69	D42S334	72
D01S20	95	D31SL50	68	D41S12	69	D42S35	70
D01S40	95	D31SL80	68	D41S15	70	D42S40	68
D01S60	95	D31SL90	68	D41S20	68	D42S42	69
D01S80	95	D32S10	68	D41S21	69	D42S45	70
D01S90	95	D32S11	69	D41S22	69	D42S50	68
D02S00	95	D32S12	69	D41S231	72	D42S51	69
D02S10	95	D32S15	70	D41S232	72	D42S52	69
D02S20	95	D32S20	68	D41S233	72	D42S55	70
D02S40	95	D32S21	69	D41S234	72	D42S80	68
D02S60	95	D32S22	69	D41S25	70	D42S81	69
D02S80	95	D32S231	72	D41S30	68	D42S82	69
D02S90	95	D32S232	72	D41S31	69	D42S85	70
D11S00	95	D32S233	72	D41S32	69	D42S90	68
D11S10	95	D32S234	72	D41S331	72	D42S91	69
D11S20	95	D32S25	70	D41S332	72	D42S92	69
D11S40	95	D32S30	68	D41S333	72	D42S95	70
D11S60	95	D32S31	69	D41S334	72	D42SL10	68
D11S80	95	D32S32	69	D41S35	70	D42SL20	68
D11S90	95	D32S35	70	D41S40	68	D42SL30	68
D12S00	95	D32S50	68	D41S45	70	D42SL50	68
D12S10	95	D32S51	69	D41S50	68	D42SL80	68
D12S20	95	D32S52	69	D41S51	69	D42SL90	68
D12S40	95	D32S55	70	D41S52	69	D42V05	90
D12S60	95	D32S80	68	D41S55	70	D43S16	70
D12S80	95	D32S81	69	D41S80	68	D43S17	71

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
D43S26	70	D52S20	68	EVSE503	164	F11S603	95
D43S27	71	D52S21	69	EVSE504	164	F11S604	94
D43S36	70	D52S22	69	EVSE6 . .	167	F11S654	96
D43S37	71	D52S25	70	F01S002	94	F11S803	95
D43S46	70	D52S30	68	F01S003	95	F11S804	94
D43S47	71	D52S31	69	F01S054	96	F11S854	96
D43S56	70	D52S32	69	F01S102	94	F11S903	95
D43S57	71	D52S331	72	F01S103	95	F11S904	94
D43S86	70	D52S332	72	F01S154	96	F11S954	96
D43S87	71	D52S333	72	F01S202	94	F12S003	95
D43S96	70	D52S334	72	F01S203	95	F12S004	94
D43S97	71	D52S35	70	F01S254	96	F12S054	96
D44S17	71	D52S50	68	F01S402	94	F12S103	95
D44S27	71	D52S51	69	F01S403	95	F12S104	94
D44S37	71	D52S52	69	F01S454	96	F12S154	96
D44S47	71	D52S55	70	F01S602	94	F12S203	95
D44S57	71	D52S80	68	F01S603	95	F12S204	94
D44S87	71	D52S81	69	F01S654	96	F12S254	96
D44S97	71	D52S82	69	F01S802	94	F12S403	95
D51S10	68	D52S85	70	F01S803	95	F12S404	94
D51S11	69	D52S90	68	F01S854	96	F12S454	96
D51S12	69	D52S91	69	F01S902	94	F12S603	95
D51S15	70	D52S92	69	F01S903	95	F12S604	94
D51S20	68	D52S95	70	F01S954	96	F12S654	96
D51S21	69	D52SL10	68	F02S002	94	F12S803	95
D51S22	69	D52SL20	68	F02S003	95	F12S804	94
D51S25	70	D52SL30	68	F02S054	96	F12S854	96
D51S30	68	D52SL50	68	F02S102	94	F12S903	95
D51S31	69	D52SL80	68	F02S103	95	F12S904	94
D51S32	69	D52SL90	68	F02S154	96	F12S954	96
D51S331	72	D53S16	70	F02S202	94	F31S100	73
D51S332	72	D53S17	71	F02S203	95	F31S101	74
D51S333	72	D53S26	70	F02S254	96	F31S102	75
D51S334	72	D53S27	71	F02S402	94	F31S103	75
D51S35	70	D53S36	70	F02S403	95	F31S104	75
D51S50	68	D53S37	71	F02S454	96	F31S105	75
D51S51	69	D53S56	70	F02S602	94	F31S120	80
D51S52	69	D53S57	71	F02S603	95	F31S131	81
D51S55	70	D53S86	70	F02S654	96	F31S133	82
D51S80	68	D53S87	71	F02S802	94	F31S150	77
D51S81	69	D53S96	70	F02S803	95	F31S151	78
D51S82	69	D53S97	71	F02S854	96	F31S152	78
D51S85	70	D54S17	71	F02S902	94	F31S154	78
D51S90	68	D54S27	71	F02S903	95	F31S170	85
D51S91	69	D54S37	71	F02S954	96	F31S181	83
D51S92	69	D54S57	71	F11S003	95	F31S183	84
D51S95	70	D54S87	71	F11S004	94	F31S200	73
D51SL10	68	D54S97	71	F11S054	96	F31S201	74
D51SL20	68	DG-RJ45	44	F11S103	95	F31S202	75
D51SL30	68	EVCC	168	F11S104	94	F31S203	75
D51SL50	68	EVSE131	165	F11S154	96	F31S204	75
D51SL80	68	EVSE231	165	F11S203	95	F31S205	75
D51SL90	68	EVSE234	165	F11S204	94	F31S20B	89
D52S10	68	EVSE301	166	F11S254	96	F31S220	80
D52S11	69	EVSE401	166	F11S403	95	F31S22B	89
D52S12	69	EVSE501	164	F11S404	94	F31S231	81
D52S15	70	EVSE502	164	F11S454	96	F31S233	82

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
F31S250	77	F31S902	75	F31SL3C	81	F32S150	77
F31S251	78	F31S903	75	F31SL3D	83	F32S170	85
F31S252	78	F31S904	75	F31SL3F	82	F32S183	84
F31S254	78	F31S905	75	F31SL3G	84	F32S200	73
F31S270	85	F31S920	80	F31SL3K	76	F32S201	74
F31S281	83	F31S931	81	F31SL50	74	F32S20B	89
F31S283	84	F31S933	82	F31SL51	73	F32S220	80
F31S300	73	F31S950	77	F31SL52	75	F32S22B	89
F31S301	74	F31S951	78	F31SL53	80	F32S233	82
F31S302	75	F31S952	78	F31SL54	76	F32S250	77
F31S303	75	F31S954	78	F31SL55	78	F32S270	85
F31S304	75	F31S970	85	F31SL56	77	F32S283	84
F31S305	75	F31S981	83	F31SL57	78	F32S300	73
F31S320	80	F31S983	84	F31SL58	85	F32S301	74
F31S331	81	F31SL10	74	F31SL59	78	F32S320	80
F31S333	82	F31SL11	73	F31SL5B	76	F32S333	82
F31S350	77	F31SL12	75	F31SL5C	81	F32S350	77
F31S351	78	F31SL13	80	F31SL5D	83	F32S370	85
F31S352	78	F31SL14	76	F31SL5F	82	F32S383	84
F31S354	78	F31SL15	78	F31SL5G	84	F32S500	73
F31S370	85	F31SL16	77	F31SL5K	76	F32S501	74
F31S381	83	F31SL17	78	F31SL80	74	F32S520	80
F31S383	84	F31SL18	85	F31SL81	73	F32S533	82
F31S500	73	F31SL19	78	F31SL82	75	F32S550	77
F31S501	74	F31SL1B	76	F31SL83	80	F32S570	85
F31S502	75	F31SL1C	81	F31SL84	76	F32S583	84
F31S503	75	F31SL1D	83	F31SL85	78	F32S800	73
F31S504	75	F31SL1F	82	F31SL86	77	F32S801	74
F31S505	75	F31SL1G	84	F31SL87	78	F32S820	80
F31S520	80	F31SL1K	76	F31SL88	85	F32S833	82
F31S531	81	F31SL20	74	F31SL89	78	F32S850	77
F31S533	82	F31SL21	73	F31SL8B	76	F32S870	85
F31S550	77	F31SL22	75	F31SL8C	81	F32S883	84
F31S551	78	F31SL23	80	F31SL8D	83	F32S900	73
F31S552	78	F31SL24	76	F31SL8F	82	F32S901	74
F31S554	78	F31SL25	78	F31SL8G	84	F32S920	80
F31S570	85	F31SL26	77	F31SL8K	76	F32S933	82
F31S581	83	F31SL27	78	F31SL90	74	F32S950	77
F31S583	84	F31SL28	85	F31SL91	73	F32S970	85
F31S800	73	F31SL29	78	F31SL92	75	F32S983	84
F31S801	74	F31SL2B	76	F31SL93	80	F32SL10	74
F31S802	75	F31SL2C	81	F31SL94	76	F32SL11	73
F31S803	75	F31SL2D	83	F31SL95	78	F32SL16	77
F31S804	75	F31SL2F	82	F31SL96	77	F32SL1C	81
F31S805	75	F31SL2G	84	F31SL97	78	F32SL1D	83
F31S820	80	F31SL2K	76	F31SL98	85	F32SL1F	82
F31S831	81	F31SL30	74	F31SL99	78	F32SL1G	84
F31S833	82	F31SL31	73	F31SL9B	76	F32SL20	74
F31S850	77	F31SL32	75	F31SL9C	81	F32SL21	73
F31S851	78	F31SL33	80	F31SL9D	83	F32SL26	77
F31S852	78	F31SL34	76	F31SL9F	82	F32SL2C	81
F31S854	78	F31SL35	78	F31SL9G	84	F32SL2D	83
F31S870	85	F31SL36	77	F31SL9K	76	F32SL2F	82
F31S881	83	F31SL37	78	F32S100	73	F32SL2G	84
F31S883	84	F31SL38	85	F32S101	74	F32SL30	74
F31S900	73	F31SL39	78	F32S120	80	F32SL31	73
F31S901	74	F31SL3B	76	F32S133	82	F32SL36	77

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
F32SL3C	81	F34S188	87	F41S433	82	F41SL2G	84
F32SL3D	83	F34S257	79	F41S450	77	F41SL30	74
F32SL3F	82	F34S287	87	F41S470	85	F41SL31	73
F32SL3G	84	F34S288	87	F41S481	83	F41SL32	75
F32SL50	74	F34S357	79	F41S483	84	F41SL33	80
F32SL51	73	F34S387	87	F41S500	73	F41SL36	77
F32SL56	77	F34S388	87	F41S501	74	F41SL38	85
F32SL5C	81	F34S557	79	F41S502	75	F41SL3C	81
F32SL5D	83	F34S587	87	F41S505	75	F41SL3D	83
F32SL5F	82	F34S588	87	F41S520	80	F41SL3F	82
F32SL5G	84	F34S857	79	F41S531	81	F41SL3G	84
F32SL80	74	F34S887	87	F41S533	82	F41SL50	74
F32SL81	73	F34S888	87	F41S550	77	F41SL51	73
F32SL86	77	F34S957	79	F41S570	85	F41SL52	75
F32SL8C	81	F34S987	87	F41S581	83	F41SL53	80
F32SL8D	83	F34S988	87	F41S583	84	F41SL56	77
F32SL8F	82	F41S100	73	F41S800	73	F41SL58	85
F32SL8G	84	F41S101	74	F41S801	74	F41SL5C	81
F32SL90	74	F41S102	75	F41S802	75	F41SL5D	83
F32SL91	73	F41S105	75	F41S805	75	F41SL5F	82
F32SL96	77	F41S120	80	F41S820	80	F41SL5G	84
F32SL9C	81	F41S131	81	F41S831	81	F41SL80	74
F32SL9D	83	F41S133	82	F41S833	82	F41SL81	73
F32SL9F	82	F41S150	77	F41S850	77	F41SL82	75
F32SL9G	84	F41S170	85	F41S870	85	F41SL83	80
F33S156	79	F41S181	83	F41S881	83	F41SL86	77
F33S157	79	F41S183	84	F41S883	84	F41SL88	85
F33S184	86	F41S200	73	F41S900	73	F41SL8C	81
F33S185	86	F41S201	74	F41S901	74	F41SL8D	83
F33S186	86	F41S202	75	F41S902	75	F41SL8F	82
F33S256	79	F41S205	75	F41S905	75	F41SL8G	84
F33S257	79	F41S220	80	F41S920	80	F41SL90	74
F33S284	86	F41S231	81	F41S920	80	F41SL91	73
F33S285	86	F41S233	82	F41S931	81	F41SL92	75
F33S286	86	F41S250	77	F41S933	82	F41SL93	80
F33S356	79	F41S270	85	F41S950	77	F41SL96	77
F33S357	79	F41S281	83	F41S970	85	F41SL98	85
F33S384	86	F41S283	84	F41S981	83	F41SL98	85
F33S385	86	F41S300	73	F41S983	84	F41SL9C	81
F33S386	86	F41S301	74	F41SL10	74	F41SL9D	83
F33S556	79	F41S302	75	F41SL11	73	F41SL9F	82
F33S557	79	F41S305	75	F41SL12	75	F41SL9G	84
F33S584	86	F41S30B	89	F41SL13	80	F42S100	73
F33S585	86	F41S320	80	F41SL16	77	F42S101	74
F33S586	86	F41S32B	89	F41SL18	85	F42S120	80
F33S856	79	F41S331	81	F41SL1C	81	F42S133	82
F33S857	79	F41S333	82	F41SL1D	83	F42S150	77
F33S884	86	F41S350	77	F41SL1F	82	F42S170	85
F33S885	86	F41S370	85	F41SL1G	84	F42S183	84
F33S886	86	F41S381	83	F41SL20	74	F42S200	73
F33S956	79	F41S383	84	F41SL21	73	F42S201	74
F33S957	79	F41S400	73	F41SL22	75	F42S220	80
F33S984	86	F41S401	74	F41SL23	80	F42S233	82
F33S985	86	F41S402	75	F41SL26	77	F42S250	77
F33S986	86	F41S405	75	F41SL28	85	F42S270	85
F34S157	79	F41S420	80	F41SL2C	81	F42S283	84
F34S187	87	F41S431	81	F41SL2D	83	F42S300	73
				F41SL2F	82	F42S301	74

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
F42S30B	89	F42SL51	73	F44S157	79	F51S883	84
F42S320	80	F42SL56	77	F44S187	87	F51S900	73
F42S32B	89	F42SL5C	81	F44S188	87	F51S901	74
F42S333	82	F42SL5D	83	F44S257	79	F51S920	80
F42S350	77	F42SL5F	82	F44S287	87	F51S933	81
F42S370	85	F42SL5G	84	F44S288	87	F51S950	77
F42S383	84	F42SL80	74	F44S357	79	F51S970	85
F42S400	73	F42SL81	73	F44S387	87	F51S983	84
F42S401	74	F42SL86	77	F44S388	87	F51SL10	74
F42S420	80	F42SL8C	81	F44S457	79	F51SL11	73
F42S433	82	F42SL8D	83	F44S487	87	F51SL16	77
F42S450	77	F42SL8F	82	F44S488	87	F51SL1C	81
F42S470	85	F42SL8G	84	F44S557	79	F51SL1D	83
F42S483	84	F42SL90	74	F44S587	87	F51SL1F	82
F42S500	73	F42SL91	73	F44S588	87	F51SL1G	84
F42S501	74	F42SL96	77	F44S857	79	F51SL20	74
F42S520	80	F42SL9C	81	F44S887	87	F51SL21	73
F42S533	82	F42SL9D	83	F44S888	87	F51SL26	77
F42S550	77	F42SL9F	82	F44S957	79	F51SL2C	81
F42S570	85	F42SL9G	84	F44S987	87	F51SL2D	83
F42S583	84	F42V050	90	F44S988	87	F51SL2F	82
F42S800	73	F42V083	90	F51S100	73	F51SL2G	84
F42S801	74	F43S156	79	F51S101	74	F51SL30	74
F42S820	80	F43S157	79	F51S120	80	F51SL31	73
F42S833	82	F43S184	86	F51S133	81	F51SL36	77
F42S850	77	F43S185	86	F51S150	77	F51SL3C	81
F42S870	85	F43S186	86	F51S170	85	F51SL3D	83
F42S883	84	F43S256	79	F51S183	84	F51SL3F	82
F42S900	73	F43S257	79	F51S200	73	F51SL3G	84
F42S901	74	F43S284	86	F51S201	74	F51SL50	74
F42S920	80	F43S285	86	F51S220	80	F51SL51	73
F42S933	82	F43S286	86	F51S233	81	F51SL56	77
F42S950	77	F43S356	79	F51S250	77	F51SL5C	81
F42S970	85	F43S357	79	F51S270	85	F51SL5D	83
F42S983	84	F43S384	86	F51S283	84	F51SL5F	82
F42SL10	74	F43S385	86	F51S300	73	F51SL5G	84
F42SL11	73	F43S386	86	F51S301	74	F51SL80	74
F42SL16	77	F43S456	79	F51S30B	89	F51SL81	73
F42SL1C	81	F43S457	79	F51S320	80	F51SL86	77
F42SL1D	83	F43S484	86	F51S32B	89	F51SL8C	81
F42SL1F	82	F43S485	86	F51S333	81	F51SL8D	83
F42SL1G	84	F43S486	86	F51S350	77	F51SL8F	82
F42SL20	74	F43S556	79	F51S370	85	F51SL8G	84
F42SL21	73	F43S557	79	F51S383	84	F51SL90	74
F42SL26	77	F43S584	86	F51S500	73	F51SL91	73
F42SL2C	81	F43S585	86	F51S501	74	F51SL96	77
F42SL2D	83	F43S586	86	F51S520	80	F51SL9C	81
F42SL2F	82	F43S856	79	F51S533	81	F51SL9D	83
F42SL2G	84	F43S857	79	F51S550	77	F51SL9F	82
F42SL30	74	F43S884	86	F51S570	85	F51SL9G	84
F42SL31	73	F43S885	86	F51S583	84	F52S100	73
F42SL36	77	F43S886	86	F51S800	73	F52S101	74
F42SL3C	81	F43S956	79	F51S801	74	F52S120	80
F42SL3D	83	F43S957	79	F51S820	80	F52S133	81
F42SL3F	82	F43S984	86	F51S833	81	F52S150	77
F42SL3G	84	F43S985	86	F51S850	77	F52S170	85
F42SL50	74	F43S986	86	F51S870	85	F52S183	84

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
F52S200	73	F52SL3G	84	F54S288	87	G41S50	58
F52S201	74	F52SL50	74	F54S357	79	G41S52	58
F52S220	80	F52SL51	73	F54S387	87	G41S80	58
F52S233	81	F52SL56	77	F54S388	87	G41S82	58
F52S250	77	F52SL5C	81	F54S557	79	G41S90	58
F52S270	85	F52SL5D	83	F54S587	87	G41S92	58
F52S283	84	F52SL5F	82	F54S588	87	G42S10	58
F52S300	73	F52SL5G	84	F54S857	79	G42S12	58
F52S301	74	F52SL80	74	F54S887	87	G42S20	58
F52S30B	89	F52SL81	73	F54S888	87	G42S22	58
F52S320	80	F52SL86	77	F54S957	79	G42S30	58
F52S32B	89	F52SL8C	81	F54S987	87	G42S32	58
F52S333	81	F52SL8D	83	F54S988	87	G42S50	58
F52S350	77	F52SL8F	82	G31S10	58	G42S52	58
F52S370	85	F52SL8G	84	G31S12	58	G42S80	58
F52S383	84	F52SL90	74	G31S20	58	G42S82	58
F52S500	73	F52SL91	73	G31S21	175	G42S90	58
F52S501	74	F52SL96	77	G31S22	58	G42S92	58
F52S520	80	F52SL9C	81	G31S30	58	G43S15	59
F52S533	81	F52SL9D	83	G31S32	58	G43S25	59
F52S550	77	F52SL9F	82	G31S50	58	G43S35	59
F52S570	85	F52SL9G	84	G31S52	58	G43S55	59
F52S583	84	F53S156	79	G31S80	58	G43S85	59
F52S800	73	F53S157	79	G31S82	58	G43S95	59
F52S801	74	F53S184	86	G31S82	58	G44S15	59
F52S820	80	F53S185	86	G31S90	58	G44S25	59
F52S833	81	F53S186	86	G31S92	58	G44S35	59
F52S850	77	F53S256	79	G31V21	175	G44S55	59
F52S870	85	F53S257	79	G32S10	58	G44S55	59
F52S883	84	F53S284	86	G32S12	58	G44S85	59
F52S900	73	F53S285	86	G32S20	58	G44S95	59
F52S901	74	F53S286	86	G32S22	58	G51S10	58
F52S920	80	F53S356	79	G32S30	58	G51S12	58
F52S933	81	F53S357	79	G32S32	58	G51S20	58
F52S950	77	F53S384	86	G32S50	58	G51S22	58
F52S970	85	F53S385	86	G32S52	58	G51S30	58
F52S983	84	F53S386	86	G32S80	58	G51S30P	63
F52SL10	74	F53S386	86	G32S82	58	G51S31P	63
F52SL11	73	F53S556	79	G32S90	58	G51S32	58
F52SL16	77	F53S557	79	G32S92	58	G51S50	58
F52SL1C	81	F53S584	86	G33S15	59	G51S52	58
F52SL1D	83	F53S585	86	G33S25	59	G51S80	58
F52SL1F	82	F53S586	86	G33S35	59	G51S82	58
F52SL1G	84	F53S856	79	G33S55	59	G51S90	58
F52SL20	74	F53S857	79	G33S85	59	G51S92	58
F52SL21	73	F53S884	86	G33S95	59	G52S10	58
F52SL26	77	F53S885	86	G34S15	59	G52S12	58
F52SL2C	81	F53S886	86	G34S25	59	G52S20	58
F52SL2D	83	F53S956	79	G34S35	59	G52S22	58
F52SL2F	82	F53S957	79	G34S55	59	G52S30	58
F52SL2G	84	F53S984	86	G34S85	59	G52S30P	63
F52SL30	74	F53S985	86	G34S95	59	G52S31P	63
F52SL31	73	F53S986	86	G41S10	58	G52S32	58
F52SL36	77	F54S157	79	G41S12	58	G52S50	58
F52SL3C	81	F54S187	87	G41S20	58	G52S52	58
F52SL3D	83	F54S188	87	G41S22	58	G52S80	58
F52SL3F	82	F54S257	79	G41S30	58	G52S82	58
		F54S287	87	G41S32	58	G52S90	58

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
G52S92	58	K12S10	93	K32SL55	66	K42S40	65
G53S15	59	K12S15	93	K32SL80	65	K42S45	66
G53S25	59	K12S20	93	K32SL85	66	K42S50	65
G53S35	59	K12S25	93	K32SL90	65	K42S55	66
G53S55	59	K12S40	93	K32SL95	66	K42S80	65
G53S85	59	K12S45	93	K33S10	67	K42S85	66
G53S95	59	K12S60	93	K33S15	67	K42S90	65
G54S15	59	K12S65	93	K33S20	67	K42S95	66
G54S25	59	K12S80	93	K33S25	67	K42SL10	65
G54S35	59	K12S85	93	K33S30	67	K42SL15	66
G54S55	59	K12S90	93	K33S35	67	K42SL20	65
G54S85	59	K12S95	93	K33S50	67	K42SL25	66
G54S95	59	K31S10	65	K33S55	67	K42SL30	65
K01S00	93	K31S15	66	K33S80	67	K42SL35	66
K01S05	93	K31S20	65	K33S85	67	K42SL50	65
K01S10	93	K31S20B	88	K33S90	67	K42SL55	66
K01S15	93	K31S25	66	K33S95	67	K42SL80	65
K01S20	93	K31S30	65	K34S15	67	K42SL85	66
K01S25	93	K31S35	66	K34S25	67	K42SL90	65
K01S40	93	K31S50	65	K34S35	67	K42SL95	66
K01S45	93	K31S55	66	K34S55	67	K42V05	90
K01S60	93	K31S80	65	K34S85	67	K43S10	67
K01S65	93	K31S85	66	K34S95	67	K43S15	67
K01S80	93	K31S90	65	K41S10	65	K43S20	67
K01S85	93	K31S95	66	K41S15	66	K43S25	67
K01S90	93	K31SL10	65	K41S20	65	K43S30	67
K01S95	93	K31SL15	66	K41S25	66	K43S35	67
K02S00	93	K31SL20	65	K41S30	65	K43S40	67
K02S05	93	K31SL25	66	K41S30B	88	K43S45	67
K02S10	93	K31SL30	65	K41S35	66	K43S50	67
K02S15	93	K31SL35	66	K41S40	65	K43S55	67
K02S20	93	K31SL50	65	K41S45	66	K43S80	67
K02S25	93	K31SL55	66	K41S50	65	K43S85	67
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K02S65	93	K31SL95	66	K41S90	65	K44S25	67
K02S80	93	K32S10	65	K41S95	66	K44S35	67
K02S85	93	K32S15	66	K41SL10	65	K44S45	67
K02S90	93	K32S20	65	K41SL15	66	K44S55	67
K02S95	93	K32S20B	88	K41SL20	65	K44S85	67
K11S00	93	K32S25	66	K41SL25	66	K44S95	67
K11S05	93	K32S30	65	K41SL30	65	K51S10	65
K11S10	93	K32S35	66	K41SL35	66	K51S15	66
K11S15	93	K32S50	65	K41SL50	65	K51S20	65
K11S20	93	K32S55	66	K41SL55	66	K51S25	66
K11S25	93	K32S80	65	K41SL80	65	K51S30	65
K11S40	93	K32S85	66	K41SL85	66	K51S30B	88
K11S45	93	K32S90	65	K41SL90	65	K51S35	66
K11S60	93	K32S95	66	K41SL95	66	K51S50	65
K11S65	93	K32SL10	65	K42S10	65	K51S55	66
K11S80	93	K32SL15	66	K42S15	66	K51S80	65
K11S85	93	K32SL20	65	K42S20	65	K51S85	66
K11S90	93	K32SL25	66	K42S25	66	K51S90	65
K11S95	93	K32SL30	65	K42S30	65	K51S95	66
K12S00	93	K32SL35	66	K42S30B	88	K51SL10	65
K12S05	93	K32SL50	65	K42S35	66	K51SL15	66

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
K51SL20	65	RJ45K23	45	S12S80	92	S33S25	56
K51SL25	66	RJ45S13	45	S12S85	92	S33S30	56
K51SL30	65	RJ45S23	45	S12S90	92	S33S35	56
K51SL35	66	RJSIP67	45	S12S95	92	S33S50	56
K51SL50	65	RJUSB13	45	S31S10	54	S33S55	56
K51SL55	66	S01S00	92	S31S15	55	S33S80	56
K51SL80	65	S01S05	92	S31S20	54	S33S85	56
K51SL85	66	S01S10	92	S31S20B	88	S33S90	56
K51SL90	65	S01S15	92	S31S25	55	S33S95	56
K51SL95	66	S01S20	92	S31S30	54	S34S15	56
K52S10	65	S01S25	92	S31S35	55	S34S25	56
K52S15	66	S01S40	92	S31S50	54	S34S35	56
K52S20	65	S01S45	92	S31S55	55	S34S55	56
K52S25	66	S01S60	92	S31S80	54	S34S85	56
K52S30	65	S01S65	92	S31S85	55	S34S95	56
K52S30B	88	S01S80	92	S31S90	54	S41S10	54
K52S35	66	S01S85	92	S31S95	55	S41S15	55
K52S50	65	S01S90	92	S31SL10	54	S41S20	54
K52S55	66	S01S95	92	S31SL15	55	S41S20P	63
K52S80	65	S02S00	92	S31SL20	54	S41S25	55
K52S85	66	S02S05	92	S31SL25	55	S41S25P	63
K52S90	65	S02S10	92	S31SL30	54	S41S30	54
K52S95	66	S02S15	92	S31SL35	55	S41S30B	88
K52SL10	65	S02S20	92	S31SL50	54	S41S30P	63
K52SL15	66	S02S25	92	S31SL55	55	S41S35	55
K52SL20	65	S02S40	92	S31SL80	54	S41S35P	63
K52SL25	66	S02S45	92	S31SL85	55	S41S40	54
K52SL30	65	S02S60	92	S31SL90	54	S41S45	55
K52SL35	66	S02S65	92	S31SL95	55	S41S50	54
K52SL50	65	S02S80	92	S32S10	54	S41S55	55
K52SL55	66	S02S85	92	S32S15	55	S41S80	54
K52SL80	65	S02S90	92	S32S20	54	S41S85	55
K52SL85	66	S02S95	92	S32S20B	88	S41S90	54
K52SL90	65	S11S00	92	S32S25	55	S41S95	55
K52SL95	66	S11S05	92	S32S30	54	S41SL10	54
K53S10	67	S11S10	92	S32S35	55	S41SL15	55
K53S15	67	S11S15	92	S32S50	54	S41SL20	54
K53S20	67	S11S20	92	S32S55	55	S41SL25	55
K53S25	67	S11S25	92	S32S80	54	S41SL30	54
K53S30	67	S11S40	92	S32S85	55	S41SL35	55
K53S35	67	S11S45	92	S32S90	54	S41SL50	54
K53S50	67	S11S60	92	S32S95	55	S41SL55	55
K53S55	67	S11S65	92	S32SL10	54	S41SL80	54
K53S80	67	S11S80	92	S32SL15	55	S41SL85	55
K53S85	67	S11S85	92	S32SL20	54	S41SL90	54
K53S90	67	S11S90	92	S32SL25	55	S41SL95	55
K53S95	67	S11S95	92	S32SL30	54	S42S10	54
K54S15	67	S12S00	92	S32SL35	55	S42S15	55
K54S25	67	S12S05	92	S32SL50	54	S42S20	54
K54S35	67	S12S10	92	S32SL55	55	S42S20P	63
K54S55	67	S12S15	92	S32SL80	54	S42S25	55
K54S85	67	S12S20	92	S32SL85	55	S42S25P	63
K54S95	67	S12S25	92	S32SL90	54	S42S30	54
LAD32AV	169	S12S40	92	S32SL95	55	S42S30B	88
LAK32A3	169	S12S45	92	S33S10	56	S42S30P	63
orange	157	S12S60	92	S33S15	56	S42S35	55
RJ45K13	45	S12S65	92	S33S20	56	S42S35P	63

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE	ARTICLE NO.	PAGE
S42S40	54	S51S95	55	S54S95	56	Z 30.10	148
S42S45	55	S51SL10	54	SEV-100	40	Z 45.02	111
S42S50	54	S51SL15	55	SEV1111	22	Z 45.03	111
S42S55	55	S51SL20	54	SEV1112	22	Z 45.04	111
S42S80	54	S51SL25	55	SEV1113	22	Z 45.09	112
S42S85	55	S51SL30	54	SEV1113K	22	Z 45.10	112
S42S90	54	S51SL35	55	SEV1114	22	Z 45.11	150
S42S95	55	S51SL50	54	SEV1117	22	Z 45.12	150
S42SL10	54	S51SL55	55	SEV1121	22	Z 45.13	151
S42SL15	55	S51SL80	54	SEV1122	22	Z 45.14	151
S42SL20	54	S51SL85	55	SEV1127	22	Z 45.15	151
S42SL25	55	S51SL90	54	SEV1148	40	Z 45.16	151
S42SL30	54	S51SL95	55	SEV12S	21	Z 45.17	112
S42SL35	55	S52S10	54	SEV13K2	21	Z 45.18	112
S42SL50	54	S52S15	55	SEV13KS	22	Z 48.00	154
S42SL55	55	S52S20	54	SEV13KW	22	Z 48.10	154
S42SL80	54	S52S25	55	SEV15K2	21	Z 48.11	154
S42SL85	55	S52S30	54	SEV15S	21	Z 48.20	154
S42SL90	54	S52S30B	88	SEV23K2	21	Z 48.30	154
S42SL95	55	S52S30P	63	SEV23KS	22	Z 48.31	154
S42V05	90	S52S35	55	SEV23KW	22	Z 51.01	113
S43S10	56	S52S35P	63	SEV23S	21	Z 51.02	113
S43S15	56	S52S50	54	SEV25K2	21	Z 51.05	113
S43S20	56	S52S55	55	SEV25S	21	Z 51.32	113
S43S25	56	S52S80	54	SEVK23S	23	Z 52.02	114
S43S30	56	S52S85	55	SLS099F	172	Z 52.03	115
S43S35	56	S52S90	54	STS5460	127	Z 52.07	114
S43S40	56	S52S95	55	SW23C2	169	Z 52.09	115
S43S45	56	S52SL10	54	UL12500	42	Z 52.10	115
S43S50	56	S52SL15	55	UL12505	42	Z 52.11	114
S43S55	56	S52SL20	54	UL12506	42	Z 52.13	115
S43S80	56	S52SL25	55	USBS13	45	Z 52.22	114
S43S85	56	S52SL30	54	USBS23	45	Z 52.24	115
S43S90	56	S52SL35	55	VD0163	64	Z 52.25	115
S43S95	56	S52SL50	54	VD0164	64	Z 52.26	115
S44S15	56	S52SL55	55	VD0165	64	Z 52.27	114
S44S25	56	S52SL80	54	VD0323	64	Z 52.32	114
S44S35	56	S52SL85	55	VD0323	64	Z 52.34	114
S44S45	56	S52SL90	54	VD0325	64	Z 52.37	114
S44S55	56	S52SL95	55	VD0633	64	Z 53.01	116
S44S85	56	S53S10	56	VD0633	64	Z 53.04	116
S44S95	56	S53S15	56	VD0633	64	Z 53.14	116
S51S10	54	S53S20	56	VD1253	64	Z 53.15	116
S51S15	55	S53S25	56	VD1253	64	Z 54.06	117
S51S20	54	S53S30	56	VD1253	64	Z 54.11	117
S51S25	55	S53S35	56	WS0633	64	Z 54.14	117
S51S30	54	S53S50	56	WS0633	64	Z 54.15	118
S51S30B	88	S53S55	56	WS0633	64	Z 54.19	117
S51S30P	63	S53S80	56	WS1253	64	Z 54.20	117
S51S32	57	S53S85	56	WS1253	64	Z 54.21	117
S51S35	55	S53S90	56	WS1253	64	Z 54.22	118
S51S35P	63	S53S95	56	WSD54	127	Z 54.32	118
S51S50	54	S54S15	56	WSD60	127	Z 54.33	117
S51S55	55	S54S25	56	Z 30.01	148	Z 54.34	117
S51S80	54	S54S35	56	Z 30.02	148	Z 54.36	118
S51S85	55	S54S55	56	Z 30.05	148	Z 54.45	118
S51S90	54	S54S85	56	Z 30.06	148	Z 54.66	118

ARTICLE NUMBER DIRECTORY

ARTICLE NO.	PAGE
Z 54.67	118
Z 54.69	118
Z 55.12	152
Z 55.16	152
Z 55.17	152
Z 55.18	152
Z 55.48	152
Z 55.72	152
Z 55.74	152
Z 55.75	152
Z 57.16	137
Z 57.36	137
Z 58.12	156
Z 58.16	156
Z 58.17	156
Z 58.18	156
Z 58.48	156
Z 58.72	156
Z 58.74	156
Z 59.01	120
Z 59.02	120
Z 59.05	120
Z 59.06	120
Z 59.07	121
Z 59.08	121
Z 59.09	119
Z 59.16	120
Z 59.25	120
Z 59.26	120
Z 59.32	121
Z 59.36	120
Z 59.40	119
Z 60.01	125
Z 60.02	124
Z 60.03	124
Z 60.04	124
Z 60.06	125
Z 60.10	124
Z 60.15	125
Z 60.22	122
Z 60.23	122
Z 60.27	123
Z 60.28	123
Z 60.30	122
Z 60.31	122
Z 60.32	125
Z 60.34	124
Z 60.37	124
Z 60.38	123
Z 60.42	124
Z 60.47	124
Z 60.66	125
Z 68.06	157
Z 68.16	157
Z 68.35	157
Z 68.42	157
Z 68.54	157

ARTICLE NO.	PAGE
Z 73.12	153
Z 73.24	153
Z 73.25	153
Z 73.32	153
Z 73.37	153
Z 78.06	159
Z 78.08	159
Z 78.16	159
Z 78.46	159
Z 88.01	128
Z 88.02	128
Z 98.01	129
Z 98.02	129
Z35.0DG	44
Z60.14G	126
Z60.14S	126
Z60.16G	126
Z60.16S	126
Z60.36G	126
Z60.36S	126
Z60.44G	126
Z60.44S	126
ZDL304	149
ZL30.02	149
ZR50.00	156
ZT30.08	149

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0000014 / 08.2012