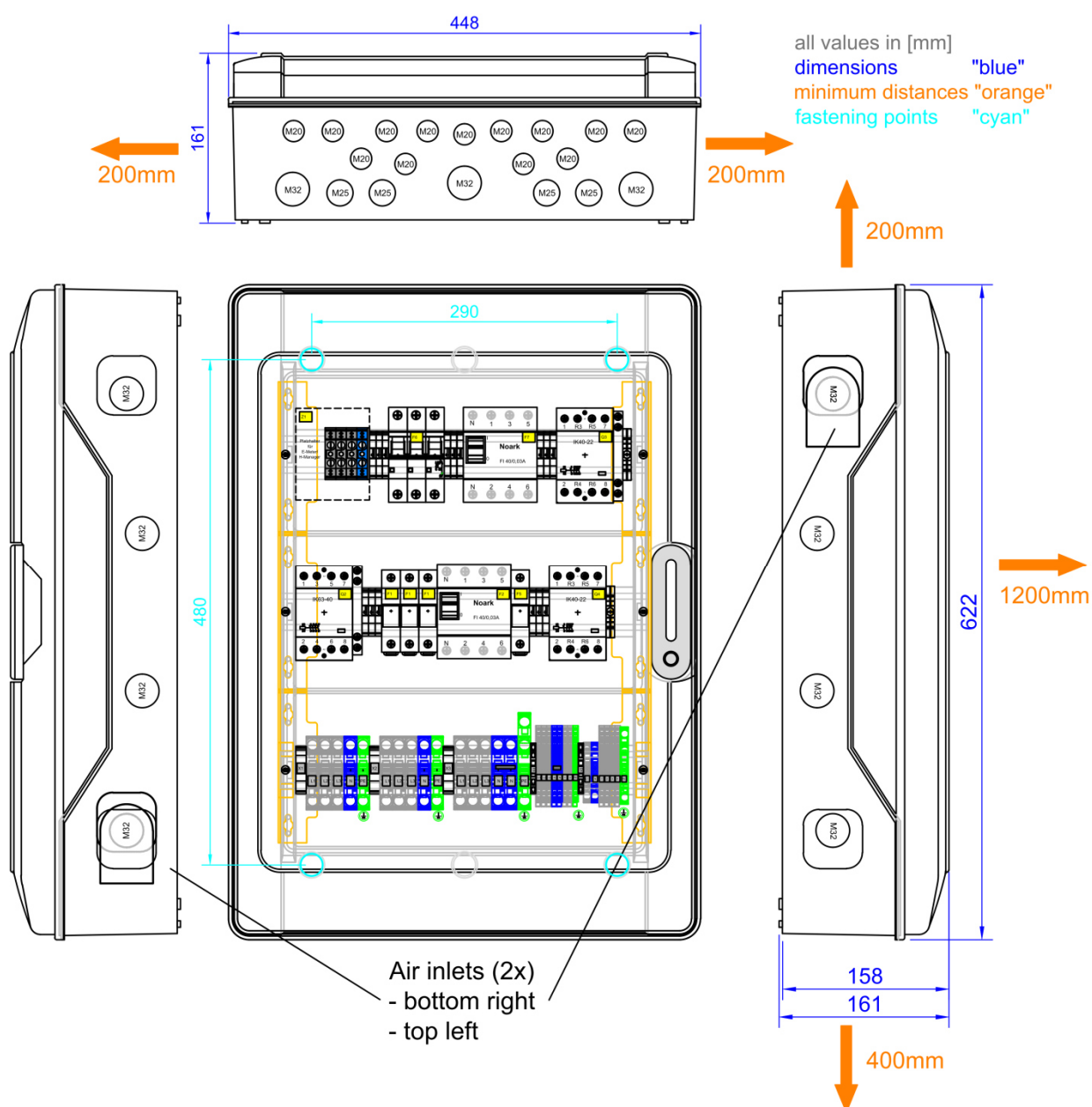


DATA SHEET

3PH-Battery-Backup-Distribution for 3 x Sunny Island

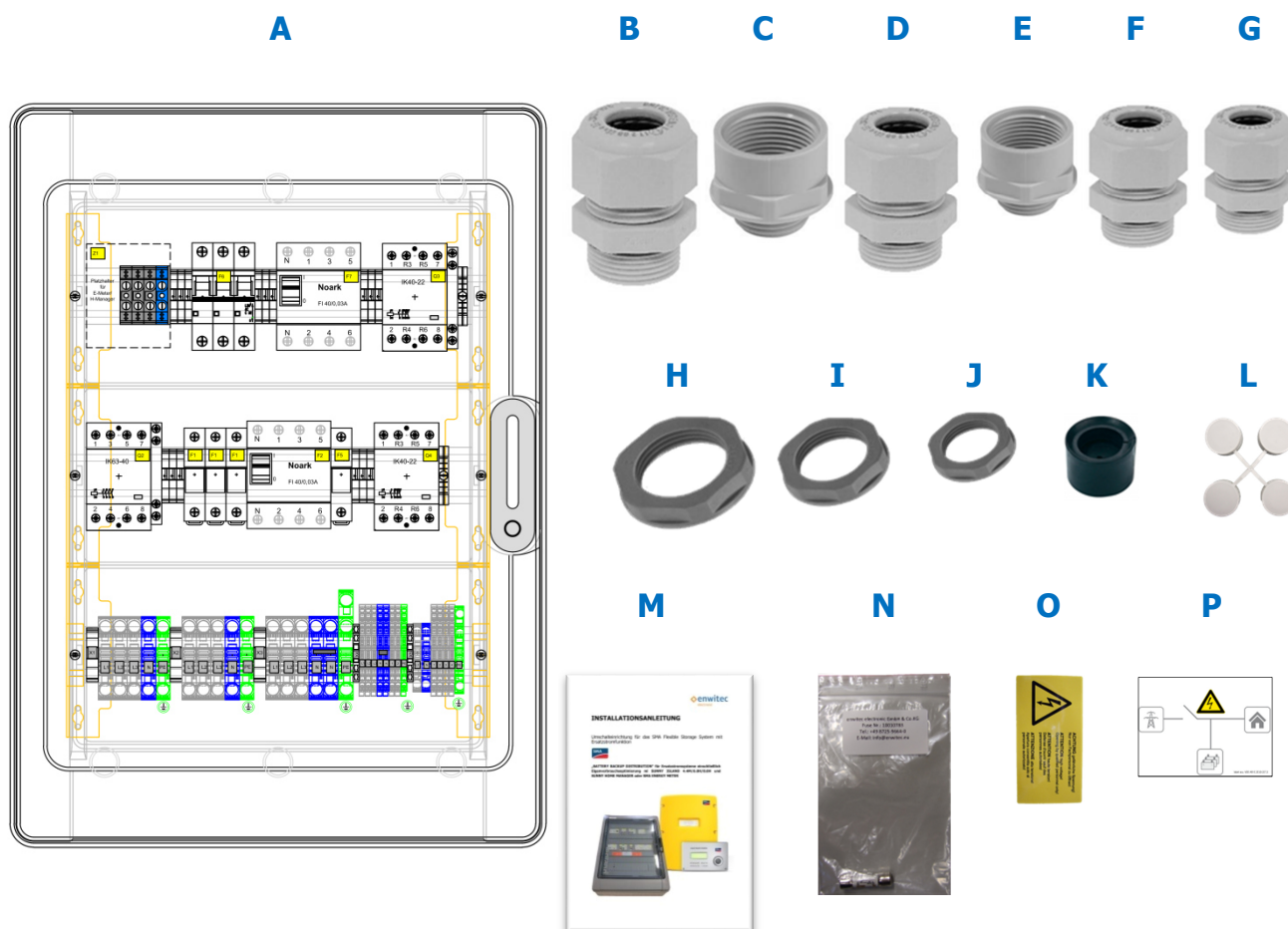
enwitec-order-number	10012569
Customer-article-number	
Type designation	Battery-Backup-Distribution 3PH - prepared for retrofitting SMA - Energy Meter/Home Manager 2.0
Match code	3PH_SMA.SI_BBDAP_35KW_3PH_PREP_DACH_1.0
Application	Standby power - SMA "Flexible Storage System"
Battery-inverter	Sunny Island 4.4M-12 from firmware-version 1.00.xx.R Sunny Island 6.0H-12 from firmware-version 1.00.xx.R Sunny Island 8.0H-12 from firmware-version 1.00.xx.R
Grid structure	TT or TN-S system <u>Sunny Island feed in: 3 phase (=1 Cluster)</u>



DATA SHEET

3PH-Battery-Backup-Distribution for 3 x Sunny Island

SCOPE OF DELIVERY

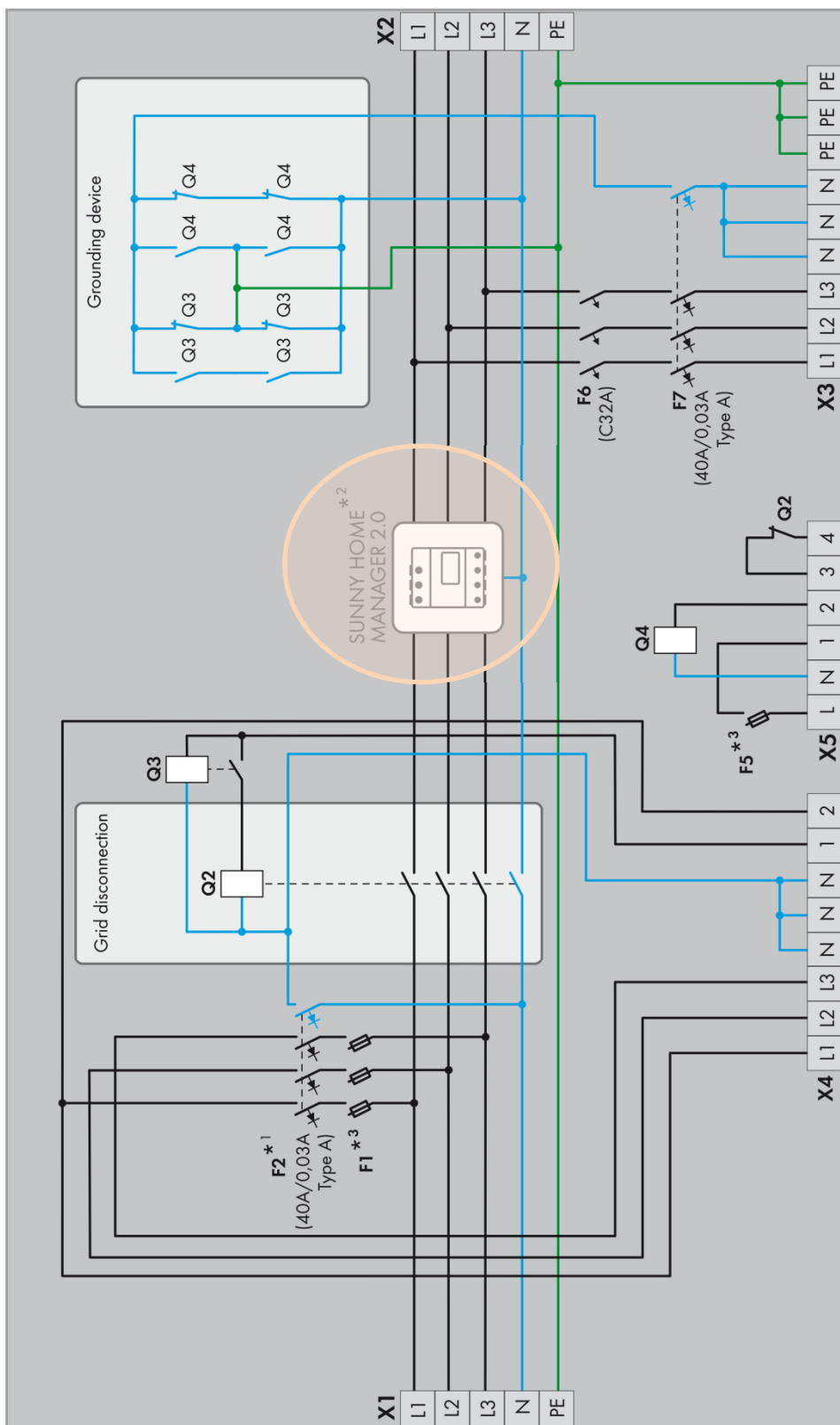


position	number	component
A	1	Battery Backup Distribution 3PH - 10012569
B	2	Cable gland M40 x 1,5 (clamping range Ø 16 – 28mm)
C	2	Enlargement adaptor -M32 to M40-
D	5	Cable gland M32 x 1,5 (clamping range Ø 13 – 21mm)
E	2	Enlargement adaptor -M25 to M32-
F	2	Cable gland M25 x 1,5 (clamping range Ø 9 – 17mm)
G	7	Cable gland M20 x 1,5 (clamping range Ø 6 – 13mm)
H	3	Locknut M32
I	4	Locknut M25
J	7	Locknut M20
K	1	Special sealing insert (CAT 5e cable"RJ45 Plug" -M25-)
L	1	Cover caps for fastening screws
M	1	Installation Manual 10010371
N	5	Ferrule-fuse 10x38mm (either Littelfuse #KLKD-1A; Fast Acting or Bussmann #KTK-1A; Fast Acting) 4 pcs. inserted (Fuse-holders); 1 pc. as a spare-part
O	1	Warning-label „high voltage“
P	1	Label - image "with reference to an island mode system ability"

DATA SHEET

3PH-Battery-Backup-Distribution for 3 x Sunny Island

ORIGINAL CIRCUIT DIAGRAM SMA



*¹ Only when connecting to a TT grid, the line conductor and the neutral conductor must be fused.

*² Not required for systems without increased self-consumption.

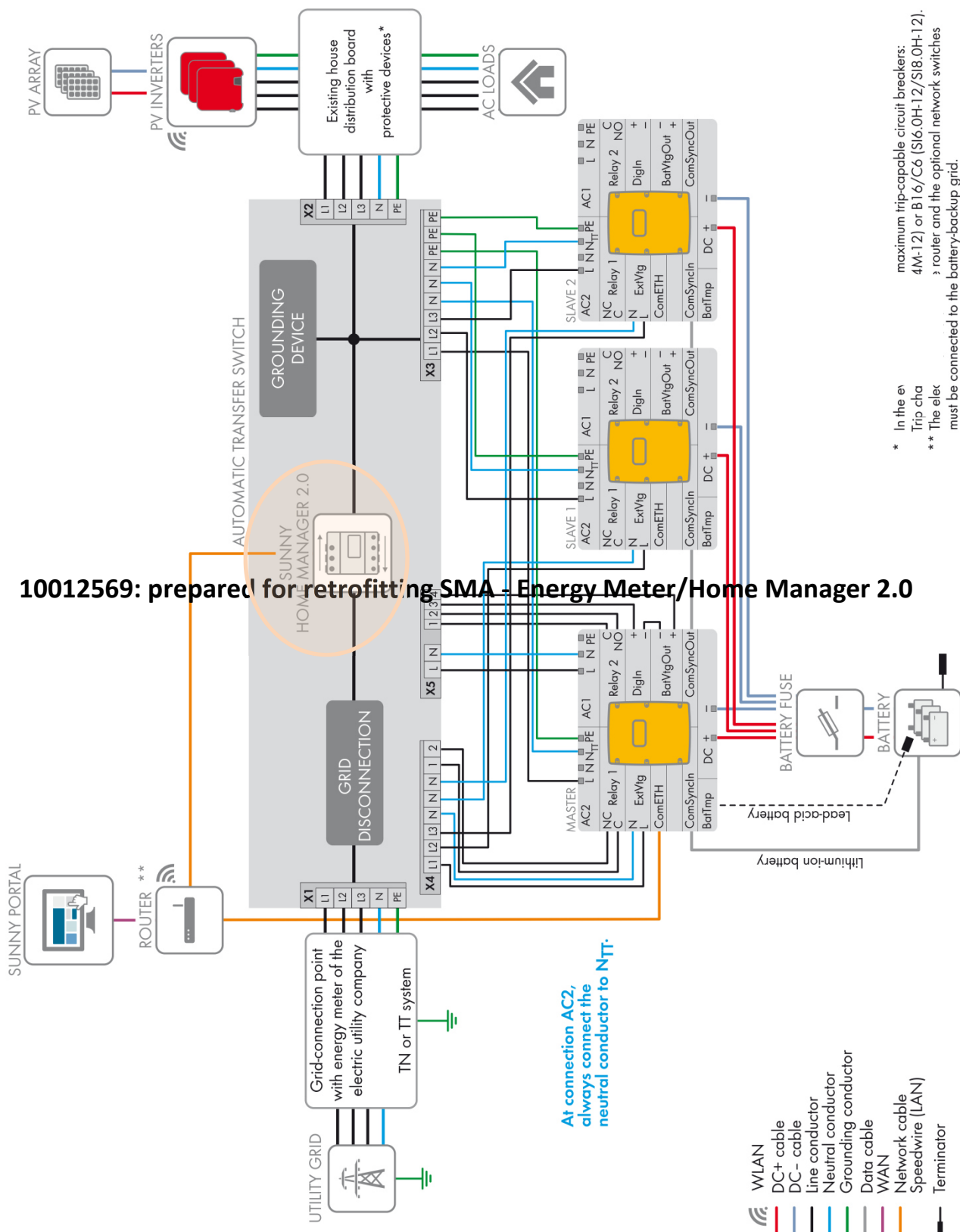
*³ Requirements for thermal fuse used: 1 A, nominal cold resistance of at least 0.2 Ω and melting integral max. 1 A2s. The indicated values in brackets are recommended by SMA Solar Technology AG. The electrical devices must be designed in accordance with the locally applicable standards and directives.

10012569: prepared for retrofitting SMA - Energy Meter/Home Manager 2.0

DATA SHEET

3PH-Battery-Backup-Distribution for 3 x Sunny Island

ORIGINAL CIRCUITRY OVERVIEW SMA



10012569: prepared for retrofitting SMA - Energy Meter/Home Manager 2.0

DATA SHEET

3PH-Battery-Backup-Distribution for 3 x Sunny Island

TECHNICAL DATA

Rated operating voltage AC	[V]	3PH -230/400
Rated insulation voltage	[V]	400
Operating frequency	[Hz]	50/60+/-5%
Max. prospective short circuit current	[kA]	10
Permitted grid structure		TT / TN-S
Max. value of pre-fuses	[A]	63 A
Max. thermal power	[kW]	35
Standby-loss	[W]	ca. 15

Circuit breakers and fuses

F1 Ferrule-fuse 10x38mm		3 x 1A fast
F2 RCD (residual current protective device)		Type A /40A-0,03A
F5 Ferrule-fuse 10x38mm		1A fast
F6 MCB (circuit breaker - "C"-characteristic)		3x32A
F7 RCD (residual current protective device)		Type A/40A-0,03A

Contactors

IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1		
Q2 „grid disconnection“	AC1 [A]	63
Q3 „grounding device I“	AC1 [A]	40
Q4 „grounding device II“	AC1 [A]	40
Control voltage		230V AC/DC
Hum-free		yes

Connections/terminals (spring-loaded terminals)

Terminal block	Wire type	Cross section [mm²] max.	Stripping length [mm]	Ferrule
X1/X2/X3	solid	16	18-20	-
	stranded	25		-
	stranded	16		yes
X4	solid	2,5	8-9	-
	stranded	2,5		-
	stranded	2,5		yes
X5 (L1/N/PE)	solid	10	13-15	-
	stranded	10		-
	stranded	6		yes
X5 (1/2/3/4)	solid	2,5	8-9	-
	stranded	2,5		-
	stranded	2,5		yes

Cable glands

Terminal block	Size (metrical)	Clamping range [mm]
X1	M32/M40	13-21/16-28
X1 PE	M20	6-13
X2	M32/M40	13-21/16-28
X3	3 xM32	13-21
X4	3 xM20	6-13
X5 „L1/N/PE“	M25	9-17
X5 „1/2/3/4“	M20	6-13



Consider installation manual!

General data

Dimensions (WxHxD)	[mm]	448x622x161
Weight	[kg]	12
Operating temperature range	[°C]	-25..+40
Temperature - transport/storage	[°C]	-25..+55
Temporary max. 24 hours	[°C]	70
Humidity-condensing allowed	•/-	-
Humidity – permitted range	[%]	5 ... 70
max. altitude above sea level N.N.	[m]	2000
Protection Class IP (EN 60529)		44
Outdoor-application permitted	•/-	-
Installation type		Indoor area (ventilation valves!)
Protection against electric shock (EN 61140)		II
Case material		Polycarbonate
RoHS-conformity (2011/65/EU)		•
Colour of case		similar RAL7046
Way of mounting		wall mounting
cover		transparent
Locking system		without tool

Relevant standards

Switching device	EN 61439-1
„distribution boards – operated by ordinary people“ (DBO)	EN 61439-2
	EN 61439-3

Miscellaneous

Customer tariff number	85371098