

DATA SHEET

ITEM NO. 10019509

Mains switch box

POWER Backup 63 VERTO PLUS DE

Designation	POWER Backup 63 VERTO PLUS DE
Application	For the Fronius Verto Plus "Full Backup" system
Region	Germany, Switzerland
Mains disconnection	All-pole or three-pole disconnection (initially configurable using jumpers), without FRT capability
Net shape	3PH 230/400V - TN-C/TN-S or TT networks; NO TN-C network in the customer system!
Hybrid inverter	VERTO PLUS 15.0/17.5/20.0/25.0/30.0/33.3
Control & monitoring	Fronius Smart Meter TS65A-3 - "Touchscreen" is integrated

All values in [mm]

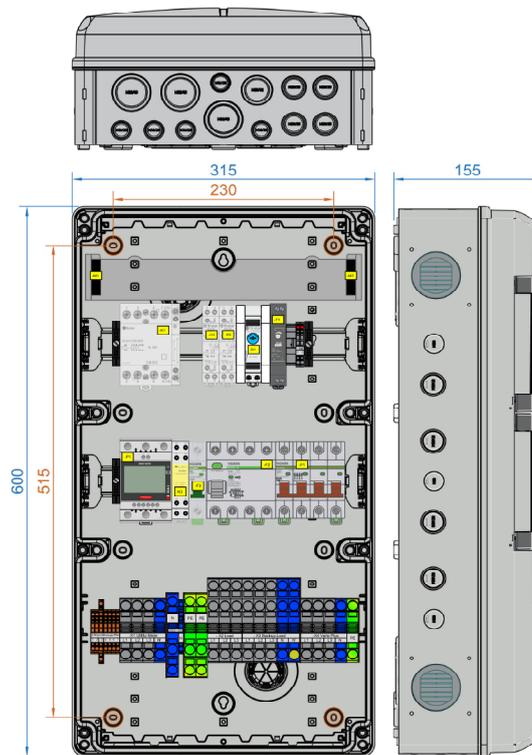
Dimensions "blue"

Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	200
front	800



SCOPE OF DELIVERY

Quantity	Designation
1	Mains switch box
1	Installation instructions
1	Operating instructions Fronius Smart Meter
1	Circuit diagram DIN A3
1 set	Cover caps for fastening screws
3	M40 cable gland incl. locknut

Quantity	Designation
1	M32 cable gland incl. lock nut
2	M20 cable gland incl. lock nut
1 set	Jumpers (for mains isolation configuration)
1	Emergency power sticker Fronius
1	"Dangerous voltage" warning sticker

Status: (f)

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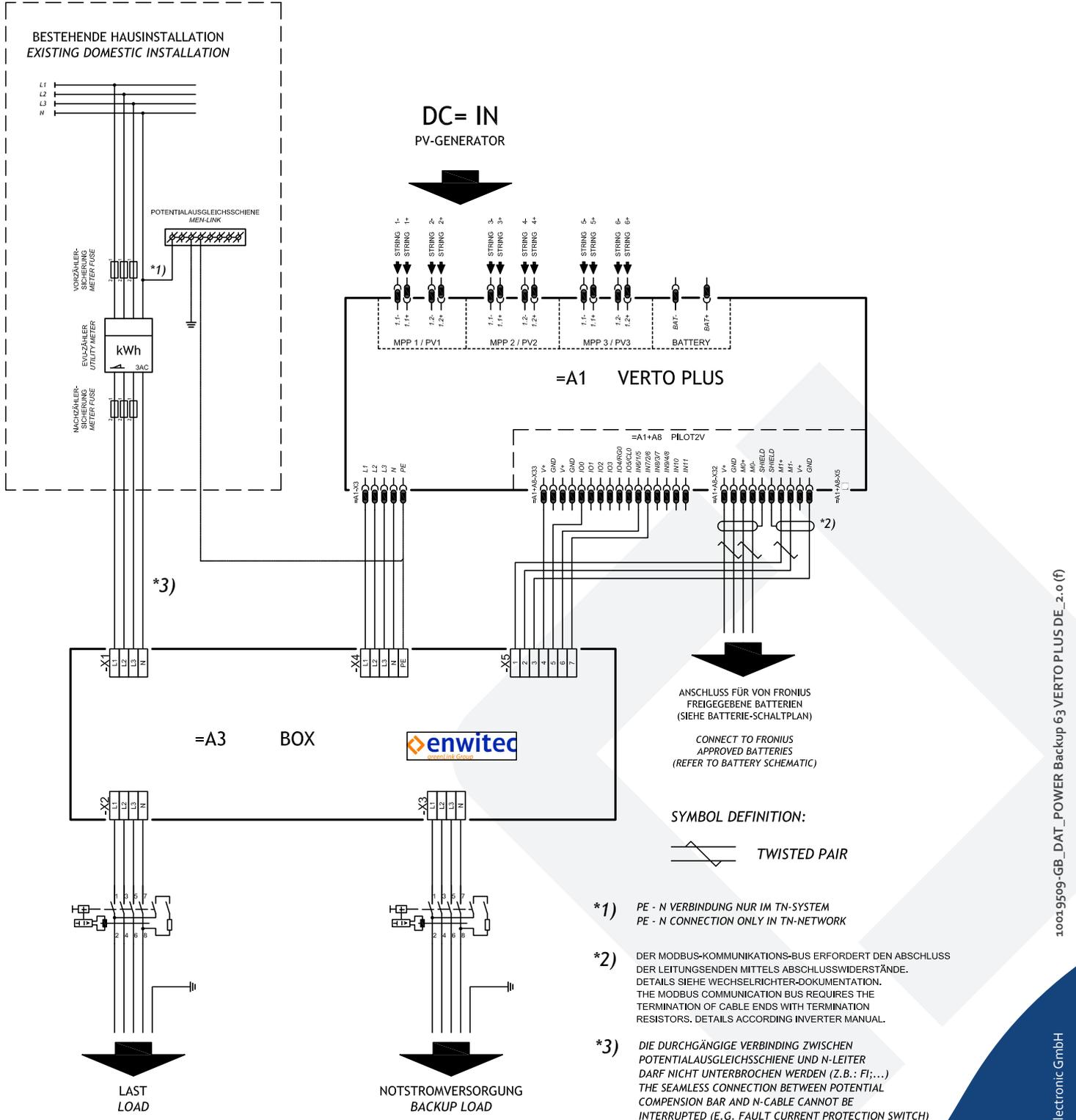
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WIRING ENVIRONMENT VERTO PLUS



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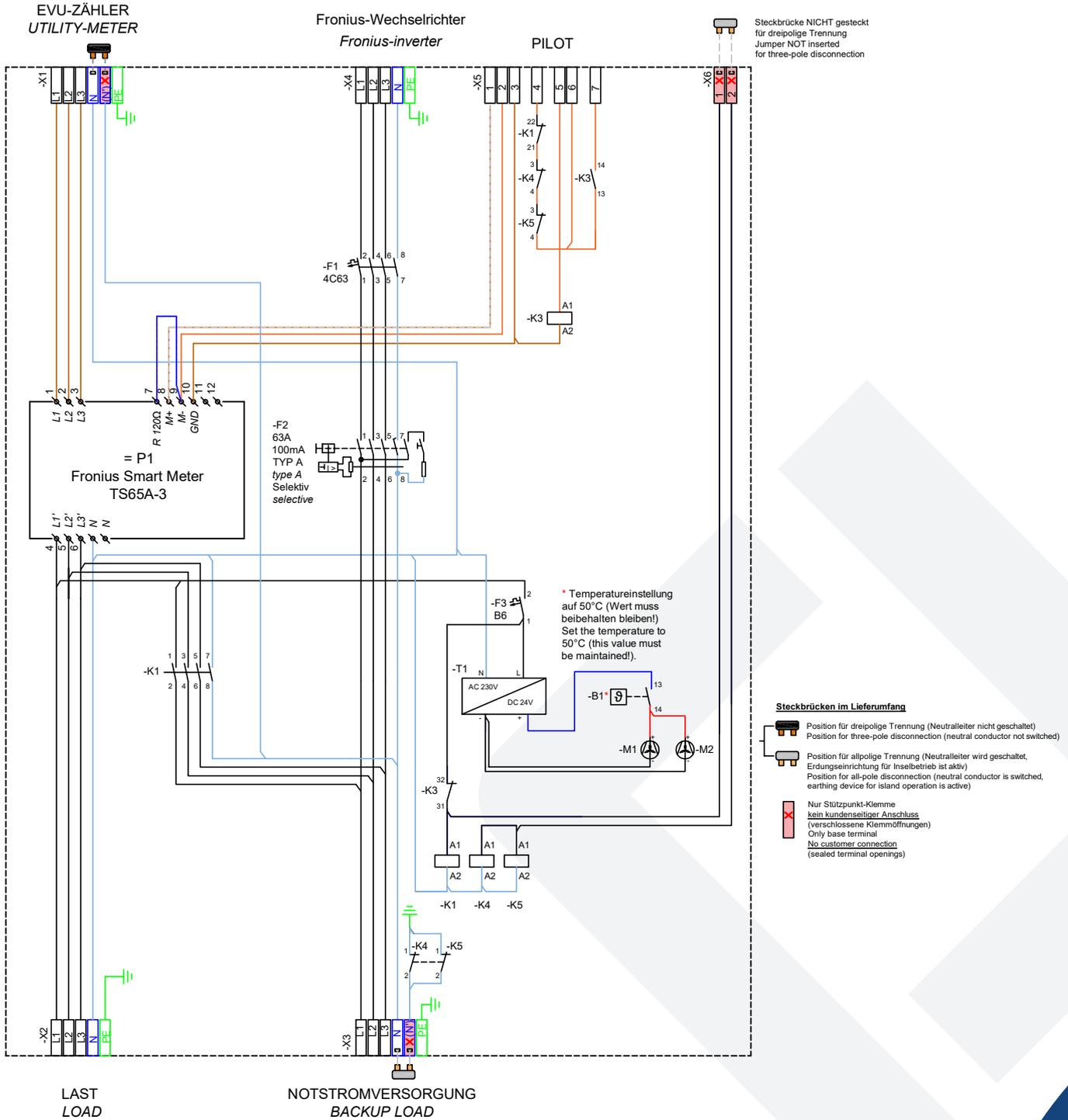
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INTERNAL WIRING



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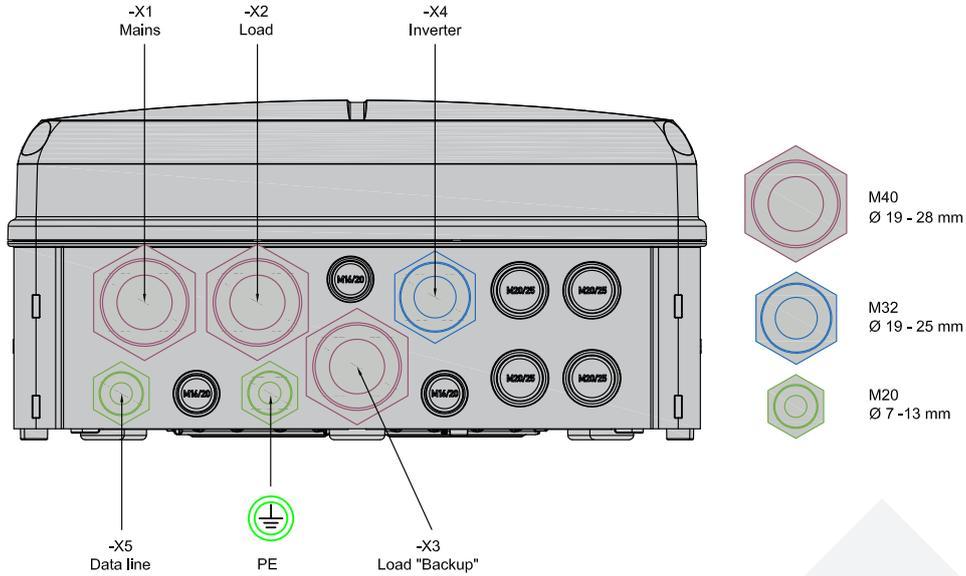
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CABLE ENTRY AND CONNECTIONS



Cable gland	Terminal strip	Clamping range [mm]	Strand type copper	max. cross-section [mm ²]	Stripping length [mm]
 M40	-X1 - Mains	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M40	-X2 - Load	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M40	-X3 - Load "Backup"	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M32	-X4 - Fronius inverter	19 - 25	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M20	-X5 - Data line	7 - 13	solid finely stranded finely stranded with ferrule	2,5 2,5 1,5	9 - 11
 M20	PE - potential equalisation	7 - 13	solid finely stranded finely stranded with ferrule	116 25 16	18 - 20

UM-IV [3 x 14] 35kW 400v
63A 3A B - a ÜX 400v 50H

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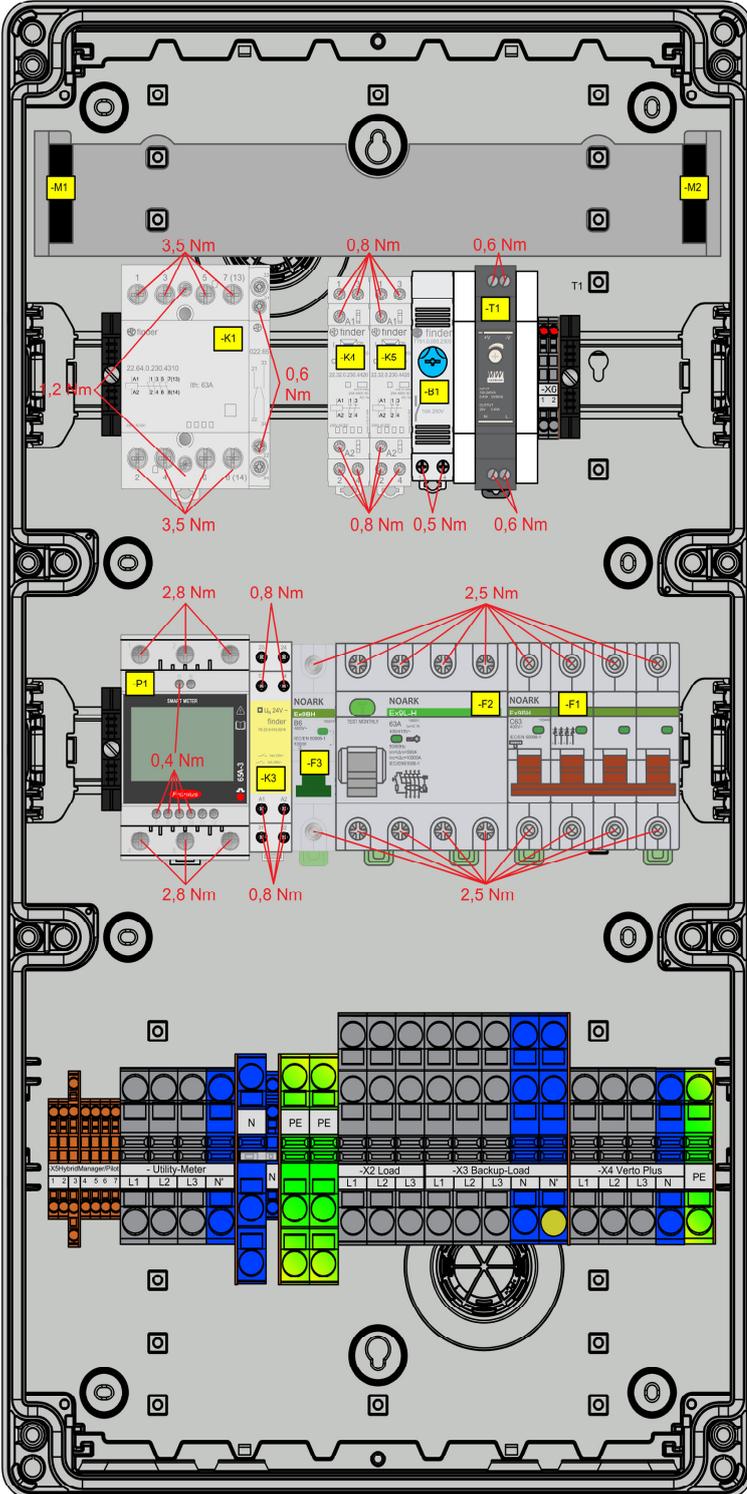
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TORQUES



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TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable	
Rated voltage	[V]	3PH - 230/400	
Rated insulation voltage	[V]	400	
Operating frequency	[Hz]	50 +/- 5%	
Max. prospective short-circuit current	[kA]	10	
Permitted net shape		TN-C/S/TT/TN-S	
Mains disconnection		all-pole or three-pole	
Max. mains-side back-up fuse	[A]	63	
Max. thermal throughput $t_a = 35^\circ\text{C}$	[kW]	35	
Standby losses, approx.	[W]	14	

CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS			
F1	Verto Plus	MCB[A]	4C63
F2	Verto Plus	RCD[A]	Type A - selective, 63/0.1
F3	Mains" control circuit	[A]	B6

CONTACTORS (IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1)			
K1	Mains disconnection	AC1 [A]	63
K4/K5	Earthing device	AC1 [A]	25
K3	Communication	AC1 [A]	10
K1/K4/K5	Control voltage	[V]	230
K3	Control voltage	[V]	12
Hum-free			•

ENERGY COUNTERS	
Manufacturer	Fronius
Type	TS65A-3

* is the maximum, unaffected continuous short-circuit current of the mains connection.

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TECHNICAL DATA

CONFIGURATION Mains disconnection using plug-in connectors (included in the scope of delivery)			• applicable / - not applicable
THREE-POLE			
X1 - plugged between N-N'	16(25) mm ²		
X6 - not plugged in	1.5(2.5) mm ²		
ALLPOLIG			
X3 - plugged between N-N'	16(25) mm ²		
X6 - plugged between 1-2	1.5(2.5) mm ²		

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	315 x 600 x 155
Weight, approx.	[kg]	7,6
Operating temperature range	[°C]	-5...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing permitted		-
Humidity - permissible range	[%]	5...60
Degree of soiling		2
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		30
Outdoor suitability (protected area)		-
Installation type		Indoor area
Protection class (EN 61140)		II
Housing material		Polycarbonate
RoHS-compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		transparent
Mounting type		Wall mounting
Closure type		without tools

OTHER	
Customs tariff number	85371098

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