

DATA SHEET

ITEM NO. 10019826

Mains switch box

POWER Backup 63 VERTO PLUS IP DE

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

All values in [mm]

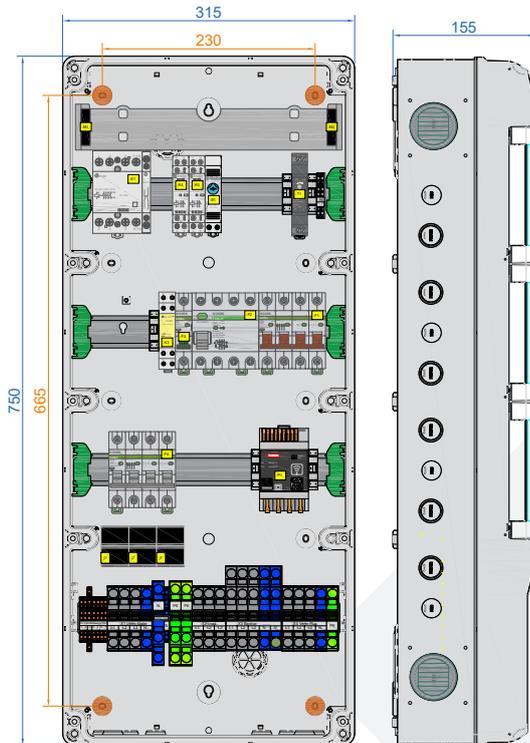
Dimensions „blue“

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

Number	Designation	Number	Designation
1	Mains switch box	1	Cable gland M25 incl. lock nut
1	Manual	2	Cable gland M20 incl. lock nut
1	Operating instructions Fronius Smart Meter	1	Split mould insert GFD 25/01/060
1	Circuit diagram DIN A3	1 set	Jumpers (for mains isolation configuration)
1 set	Cover caps for fastening screws	1	Emergency power sticker Fronius
3	Cable gland M40 incl. lock nut	1	Warning sticker "Dangerous voltage"
1	Cable gland M32 incl. lock nut		

Status: (b)

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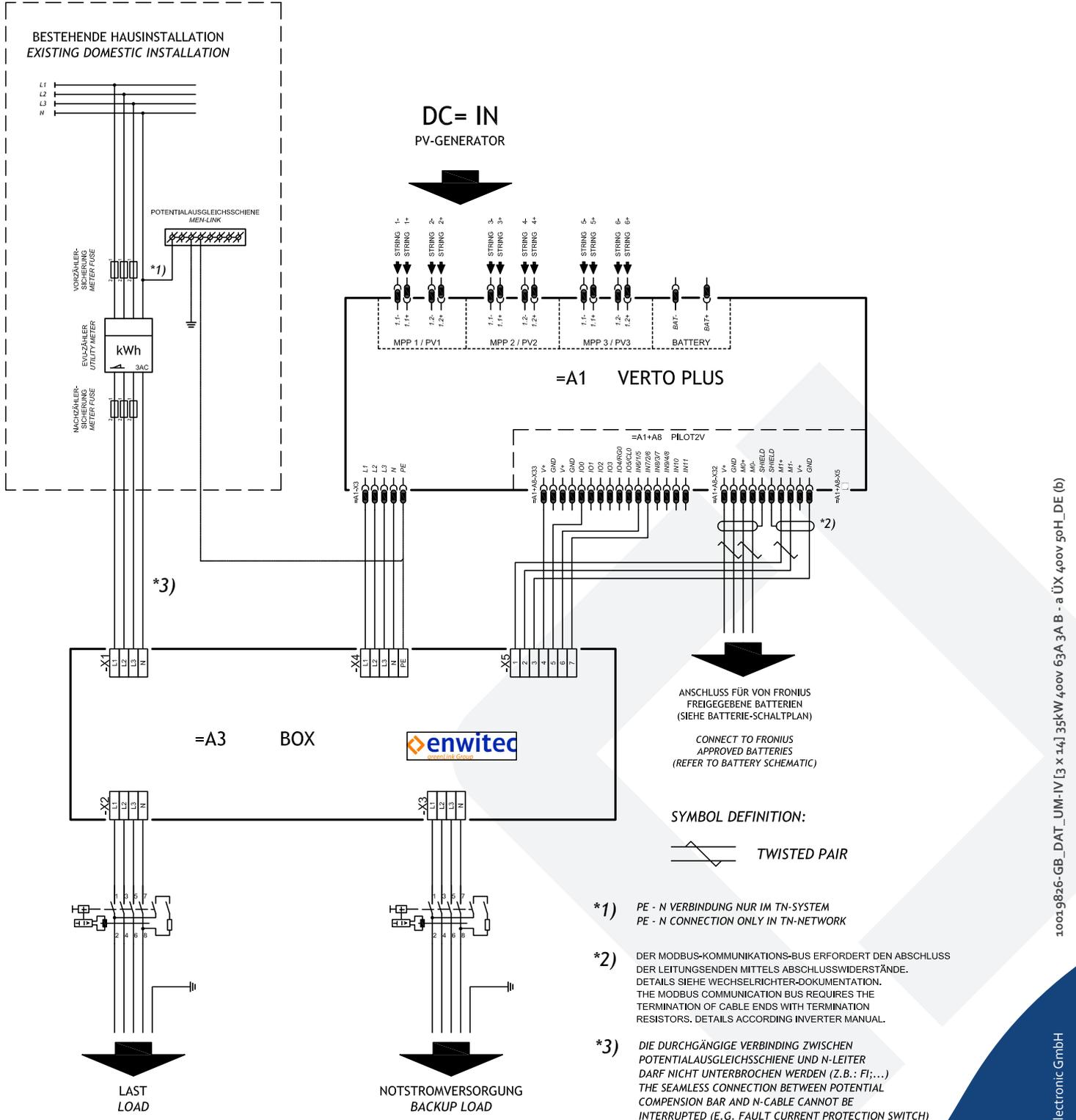
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WIRING ENVIRONMENT VERTO PLUS



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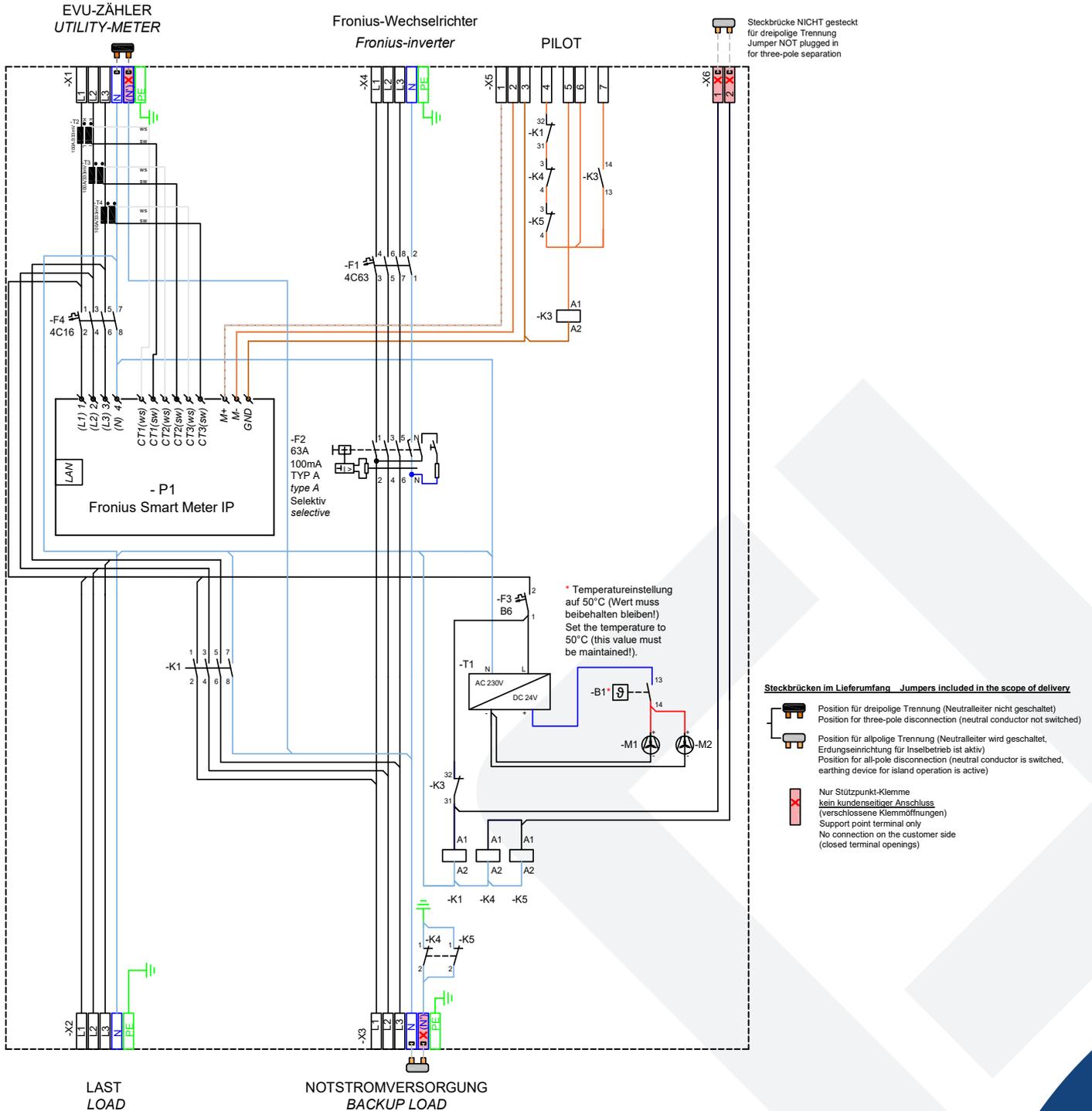
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INTERNAL WIRING



10019826-GB_DAT_UM-IV [3 x 14] 35kW 400V 63A 3A - a ÜX 400V 50H_DE (b)

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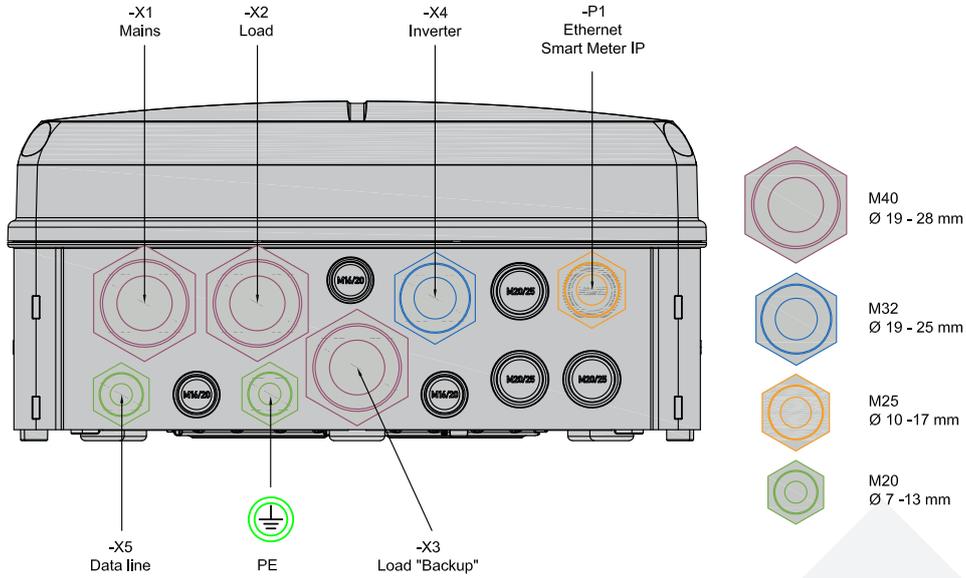
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CABLE ENTRY AND CONNECTIONS



Cable gland	Terminal strip	Clamping range [mm]	Wire 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	ssolid 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
M25	-P1 - Ethernet Fronius Smart Meter IP	split seal insert for RF45 plug	according to Fronius specifications		
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	16 25 16	18 - 20

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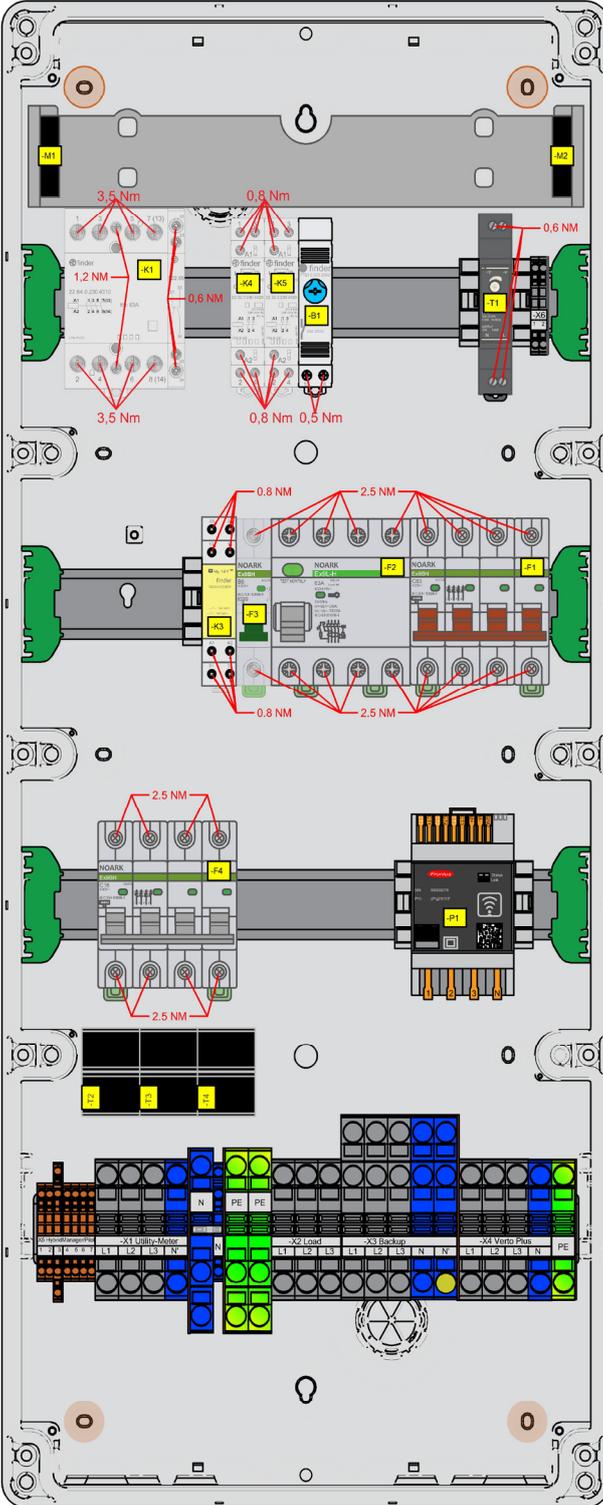
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TORQUES



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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%	
Rated short-time current resistance I_{cw}	[N/A]	10	
Permissible mesh shape		TN-C/S/TT/TN-S	
Network disconnection		all-pole or three-pole	
Max. mains-side backup 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	MCB [A]	B6
F4	Voltage measurement Smart meter	MCB [A]	4C16

PROTECTIVE DEVICE (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 METER	
Manufacturer	Fronius
Type	IP

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TECHNICAL DATA

CURRENT TRANSFORMER		• applicable / - not applicable
Accuracy class		1
Primary current	[A]	100

CONFIGURATION OF POWER DISCONNECTION BY MEANS OF PLUG-IN BRIDGES (included in delivery)		
THREE-POLE		
X1 - plugged between N-N'	16(25) mm ²	
X6 - not plugged in	1.5(2.5) mm ²	
ALLPOLE		
X3 - plugged between N-N'	16(25) mm ²	
X6 - plugged between 1-2	1.5(2.5) mm ²	

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TECHNICAL DATA

GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	315 x 750 x 155
Weight, approx.	[kg]	10.5
Operating temperature range	[°C]	-5...+35
Temperature - Transport/Storage (24 hours at 70°C)	[°C]	-25...+55
Humidity - condensation permitted		-
Humidity - permissible range	[%]	5...60
Degree of contamination		2
max. installation height above sea level	[m]	2000
Protection class IP (EN 60529)		30
Suitability for outdoor use (protected area)		-
Installation type		Interior
Protection class (EN 61140)		II
Housing material		Polycarbonate
RoHS compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		transparent
Type of installation		Wall mounting
Closure type		without tools

MISCELLANEOUS	
Tariff number	85371098

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