

DATA SHEET

ITEM NO. 10019413

Mains and system protection in accordance with VDE-AR-N 4105/4110

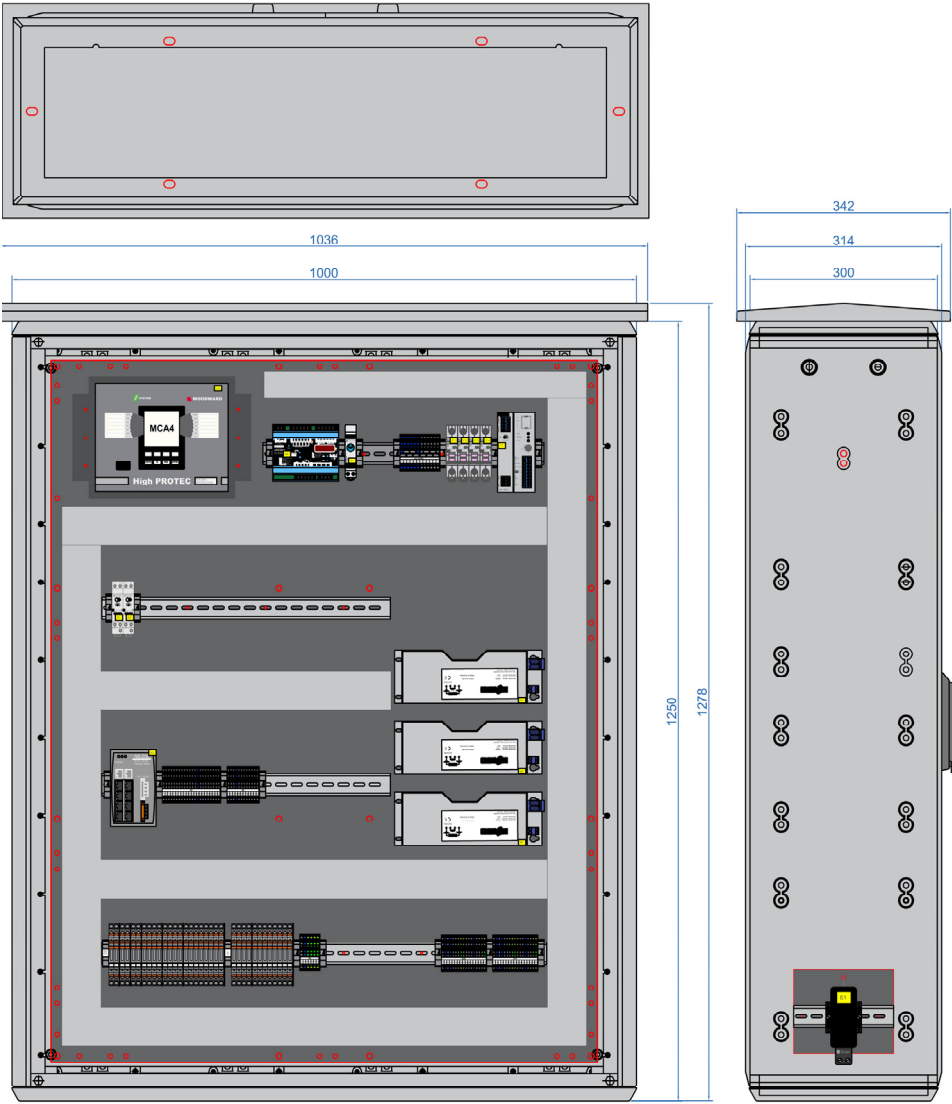
PowerShield 500 control cabinet

All values in [mm]  
Dimensions "blue"  
Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	400
lateral	200
front	1200



SCOPE OF DELIVERY

Quantity	Designation
1	Power Shield 500 control cabinet
1	General installation instructions

Quantity	Designation
1	Circuit diagram

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## TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage $U_i$	[VAC]	660
Rated operating voltage $U_e$	[VAC]	3PH - 230/400
Operating frequency $f_n$	[Hz]	50
Net shape		TT/TN-S
Max. Value of the back-up fuse (gG/gL)	[A]	see circuit diagram
Type of generating system (VDE-AR-N 4105/4110)		Type 2

PROTECTION RELAY - HIGHER-LEVEL DECOUPLING PROTECTION	
Type	Ziehl UFR1001E
Test disconnect terminal strip	Test socket 4 mm

PROTECTION RELAY - INTERMEDIATE DECOUPLING PROTECTION	
Type	Woodward MR4A-2AoBCA
Test disconnect terminal strip	Test socket 4 mm

UPS	
Nominal voltage	[V] 24
Battery capacity	[Ah] 3 × 7

ETHERNET SWITCH	
Type	Spectra NS-208-CR
Number of ports	8

CONTROL CABINET HEATING	
Performance	[W] 25

Status: April 2025

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice. Despite careful editing, all information is provided without guarantee. Liability is excluded.

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## TECHNICAL DATA

COMMUNICATION	• applicable / - not applicable	
Interface	Power supply, circuit breaker connection	
Cable entries		
Introduction	over cut-out base	
Clamping range (from - to)	[mm]	-
Connections		
Connection type	Spring clamp	
Stripping length	[mm]	10 - 12
Tightening torque	[Nm]	-
Cable cross-section (from - to)		
Fine copper wire with ferrule	[mm <sup>2</sup> ]	0,25 - 2,5
Fine-stranded copper	[mm <sup>2</sup> ]	0,25 - 4
Solid or stranded copper wire	[mm <sup>2</sup> ]	0,25 - 4

COMMUNICATION		
Interface	Test disconnect terminal strip with over- and intermediate decoupling protection	
Cable entries		
Introduction	over cut-out base	
Clamping range (from - to)	[mm]	-
Connections		
Connection type	Spring clamp	
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Cable cross-section (from - to)		
Fine copper wire with ferrule	[mm <sup>2</sup> ]	0,5 - 6
Fine-stranded copper	[mm <sup>2</sup> ]	0,5 - 10
Solid or stranded copper wire	[mm <sup>2</sup> ]	0,5 - 10

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## TECHNICAL DATA

GENERAL	• applicable / - not applicable	
Dimensions WxHxD (without screw connections)	[mm]	1036 x 1278 x 342
Weight, approx.	[kg]	100
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing permitted		-
Humidity - permissible range	[%]	5...70
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		55
Outdoor suitability (protected area)		•
Protection class (EN 61140)		II
Housing material		Polyester (GRP)
RoHS-compliant (2011/65/EU)		•
Housing colour		RAL 7035
Mounting type		Floor mounting
Closure type		Locking cylinder

OTHER	
Customs tariff number	85371098

ACCESSORIES (not included in the scope of delivery)	
Mounting base (500 mm)*	
Buried base*	

\* Either a mounting base or a recessed base is essential for installation

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