### ITEM NO. 10019511

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

Powershield Pro 1100 NSES



Scherrwies 2 | 84329 Wurmannsquick info@enwitec.eu

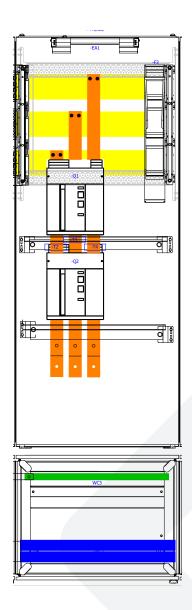
All values in [mm]

Dimensions "blue" Fastening points "orange"

#### Minimum distances

above	200
below	400
lateral	200
front	1400

Internal arrangement and components may differ depending on the variant!





Quantity	Designation
1	Powershield Pro 1100
1	General installation instructions

Quantity	Designation
1	Circuit diagram

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## TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U <sub>i</sub>	[VAC]	660
Rated operating voltage U <sub>e</sub>	[VAC]	3PH - 230/400
Rated current I <sub>nA</sub> (at cos φ 0.9)	[A]	1594
Rated current $I_{_{nA}}$ (at cos $\phi$ 1)	[A]	1435
Operating frequency f <sub>n</sub>	[Hz]	50
Net shape		TN-S
Max. Value of the back-up fuse (gG/gL)	[A]	see circuit diagram
Max. Apparent power of the generation system	[kVA]	1100
Max. Active power of the generation system	[kW]	990
Type of generating system (VDE-AR-N 4105/4110)		Type 2

CLUTCH SWITCH TEMPORARILY STORED		
Rated current I	[A]	2000
Utilisation category		AC-21/AC-22 (A+B)
Undervoltage release	[V]	24
Rated limit short-circuit breaking capacity (I <sub>cu</sub> )	[kA]	-
Separation		three-pole
Type		Switch-disconnector with motorised drive

CLUTCH SWITCH SUPERORDINATE		
Rated current I <sub>n</sub>	[A]	2000
Utilisation category		AC-21/AC-22 (A+B)
Undervoltage release	[V]	24
Rated limit short-circuit breaking capacity (I <sub>cu</sub> )	[kA]	50
Separation		three-pole
Type		Circuit-breaker with motorised drive

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## **TECHNICAL DATA**

OVERVOLTAGE PROTECTION		• applicable / - not applicable
Test class according to EN 61643-11 (type)		I+II/BC
Back-up fuse type		NH1
Max. Back-up fuse	[A]	see circuit diagram
Highest permissible continuous voltage U <sub>cpv</sub>	[V]	255
For type 1: Lightning impulse current max. I imp 10/350	[kA]	25

NETWORK CONNECTION		
Cable entry		
Introductions		over cut-out plinth
Clamping range (from - to)	[mm]	-
Connection L1, L2, L3, N, PE		
Connection type		Cable lug M12#
Stripping length	[mm]	-
Tightening torque	[Nm]	30 - 40
Cable cross-section (from - to)		
Cu/Al <sup>‡</sup>	[mm²]	max. 400

CURRENT CONVERTER		
Transducer lugs	[mm]	3 x 6o x 1o per phase
Current transformer position		between the two dome switches
Current transformer	[A]	2000/5
Accuracy class	[A]	0,5
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque		
Cable cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,5 - 6
Fine-stranded copper	[mm²]	0,5 - 10
Solid or stranded copper wire	[mm²]	0,5 - 10

Status: April 2025

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<sup>\*</sup> Bimetal cable lugs must be used for aluminium cables! When connecting aluminium conductors, the customary processing guidelines must be observed! The contact surfaces of the aluminium conductors must be cleaned, brushed and treated with suitable grease.

### **DATA SHEET**

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GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	800 x 2200 x 600
Weight, approx.	[kg]	500
Operating temperature range	[°C]	-25+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25+35
Humidity - condensing permitted		-
Humidity - permissible range	[%]	570
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		54
Outdoor suitability (protected area)		-
Protection class (EN 61140)		I
Housing material		Metal
RoHS-compliant (2011/65/EU)		•
Housing colour		RAL 7035
Mounting type		Floor mounting on raised floor
Closure type		Double-bit closure

OTHER		
Customs tariff number	8537109	98