

STANDARD SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 7.11 KG











The connection panel from the Polish manufacturer EMITER is intended for supplying power to photovoltaic inverters., Protections against short circuits and overloads., It also ensures protection against the effects and direct on the alternating and direct current sides. The distribution board should be used in grounded and isolated photovoltaic installations. Due to the high degree of IP protection, outdoor installation is possible. The design of the switchgear is intended for surface mounting. Depending on the equipment, switchboards can perform various functions.

BASIC PARAMETERS DC SIDE	
Number of inputs PV string outputs	3 3
Quantity Type of DC surge arrester Type	3 Noark T1/T2

Array MC4 Stäubli Connection type

BASIC PARAMETERS AC SIDE

Noark | T1/T2 AC Surge Protector | Type Overcurrent circuit breaker Noark B50A 3F

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model PHS 24 T Number of fields Dimensions of housing without chokes and MC4 144.00 | 320.00 | 384.00 (Length|Width|Height) Design in accordance with EN 60670-1, EN 62208 Level of security IP65 Protection class П



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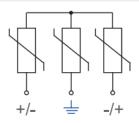
Rated insulation voltage $U_{\rm i}$	400 V AC, 1500 V DC
The incandescent rod test	650°C
Impact resistance	IK08
UV resistance	YES
Recyclable plastic	bezhalogenowy
Working temperature	-25ºC - +60ºC

DC surge arrester used (SPD)			
Manufacturer / Model	Noark Ex9UEP1+2 6.25(R) 3P 1000		
Made in accordance with	EN 61643-31		
Surge protection	PV T1+T2 (Klasa I+II, B+C, Typ 1+2)		
Making the insert	MOV (Warystor)		
Protection function	thermal		
Protection mode	+ → PE		
-	– → PE		
-	+ ↔ -		
Maximum continuous operating voltage \mathbf{U}_{CPV}			
$+ \rightarrow PE, - \rightarrow PE$	1000 V		
+ ↔ -	1000 V		
Frequency	DC		
Nominal discharge current I_n (8/20 μ s)	20 kA		
Maximum discharge current I_{max} (8/20 μ s)	40 kA		
Surge current I_{imp} (10/350 μ s)			
$+ \rightarrow PE, - \rightarrow PE$	6.25 kA		
+ ↔ -	6.25 kA		
Voltage protection level U_p by I_n			
$+ \rightarrow PE, - \rightarrow PE$	3.8 kV		
+ ↔ -	3.8 kV		
Leakage current I_{PE} by U_{REF} DC	< 50 μΑ		
Leakage current I_{PE} by U_{REF} AC	< 1 mA		
Maximum short-circuit current I _{SCPV}	1000 As		
Number of ports	1		
LV system type	DC, nieuziemiony system PV		
Auxiliary contact (optional)	1 przemienny (CO)		
Auxiliary contact, voltage / current			



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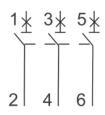
AC U_{max} / I_{max} 250 V AC / 1 A DC U_{max} / I_{max} 250 V DC / 0.1 A; 75 V DC / 0.5 A Connection configuration



Overcurrent circuit breaker used (MCB) (1)				
Manufacturer / Model	Noark / Ex9BN 3P B50			
Rated current	50A; 3-F			
Rated operational voltage $U_{\rm e}$	230/415 V AC			
-	72 V DC to the pole (1P, 2P)			
-	48 V DC to the pole (3P, 4P)			
Minimum voltage	12 V AC/DC			
Rated impulse with stand voltage U_{imp} in accordance with IEC 60898-1	6 kV			
Rated impulse withstand voltage U_{imp} in accordance with IEC 60947-2	6 kV			
Rated short-circuit breaking capacity I_{cn} in accordance with IEC 60898-1	6 kA			
Rated short-circuit breaking capacity I_{cn} in accordance with IEC 60947-2	10 kA			
Rated voltage of the insulation $U_{\rm i}$	690 V AC			
Number of poles	3			
Frequency	50/60 Hz			
Characteristic	В			
Design in accordance with	IEC/EN 60898-1, IEC/EN 60947-2			
Mechanical durability	20 000 connections			
Electrical durability	10 000 connections			
Energy limitation class	3			
Category of use	А			
Feed direction	Any (top or bottom)			



STANDARD SERIES



Overvoltage limiter used AC (SPD)				
Manufacturer / Model	Noark Ex9UE1+2	2 12.5 3PN 275		
Connection	L-N/PE	N-PE		
Made in accordance with	EN 616	EN 61643-11		
Type of delimiter	Typee 1+2 (klasa I	Typee 1+2 (klasa I+II, B+C, T1+T2)		
Making the insert	MOV (Warystor)	MOV (Warystor)GDT (Iskiernik)		
Rated voltage U _n	230 V	230 V AC		
Reference test voltage U _{REF}	255 V	255 V AC		
Continuous working voltage U_{c}	275 V AC	255 V AC		
Frequency f	25 kA to the pole	50 kA to the pole		
Specific energy W/R	156.25	156.25 kJ/Ω		
Maximum impulse current I_{imp} (10/350 μ s)	12.5 kA to the pole	50 kA to the pole		
Maximum discharge current I_{max} (8/20 μ s)	50 kA to t	50 kA to the pole		
Voltage protection level $\boldsymbol{U}_{\boldsymbol{p}}$ for electricity $\boldsymbol{I}_{\boldsymbol{n}}$	1.5 kV	1.5 kV		
Voltage protection level U_p for electricity I_{max}	1.8 kV	1.5 kV		
Voltage protection level U_p dla 5 kA (8/20 μ s)	1 kV	-		
N-PE Follow current extinguishing capability \mathbf{I}_{fi}	-	100 A		
5 s	335 V	335 V		
200 ms	335 V	1200 V		
Residual current I _{PE} by U _{REF}	≤ 1 mA	-		
Limiter voltage for current 1mA	387 - 4	387 - 473 V		
Response time	≤ 25 ns	≤ 100 ns		
Maximum fuse protection	160 A gG	-		
Ability to withstand short-circuit current	50kA	-		
Short-circuit withstand I _{SCCR}	10kA	-		
Current factor k	1kA	-		
Type of system LV TN-S, TT (3+1)		(3+1)		



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