

STANDARD SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 2.77 KG











The connection panel from the Polish manufacturer EMITER is intended for supplying power to photovoltaic inverters., protects against the effects of short circuits and overloads, It also ensures protection against the effects 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 outputs1 | 1Quantity | Type of DC surge arrester | Type1 | Noark | T2Connection typeArray MC4 Stäubli

BASIC PARAMETERS AC SIDE

AC Surge Protector | Type

Noark | T2

Overcurrent circuit breaker

Noark B10A 1F

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

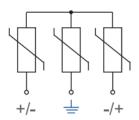
Model	PHS 8 T	
Number of fields	8	
Dimensions of housing without chokes and MC4 (Length Width Height)	120.00 201.00 202.00	
Design in accordance with	EN 60670-1, EN 62208	
Level of security	IP65	
Protection class	11	



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Rated insulation voltage U _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 Ex9UEP 20(R) 3P 1000
Made in accordance with	EN 50539-11
Surge protection	T2 (klasa II, C, T2)
Making the insert	MOV (Warystor)
Rated operational voltage U _n	1000 V
Maximum continuous operating voltage U_{CPV} + \rightarrow PE, – \rightarrow PE+ \leftrightarrow -	1000 V
Maximum open circuit voltage UOC max	905 V
Frequency	DC
Nominal discharge current I_n (8/20 μ s)	20 kA
Maximum discharge current I _{max} (8/20 μs)	40 kA
Total discharge current I _{total} (8/20 μs)	40 kA
Voltage protection level U_p by $I_n + \rightarrow PE, - \rightarrow PE + \leftrightarrow -$	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



Manufacturer / Model Noark / Ex9BN 1P B10 Rated current 10A; 1-F Rated operational voltage U_e 230/415 V AC - 72 V DC to the pole (1P, 2P)

Overcurrent circuit breaker used (MCB) (1)



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-	48 V DC to the pole (3P, 4P)
Minimum voltage	12 V AC/DC
Rated impulse withstand 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	1
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)



Overvoltage limiter used AC (SPD)				
Manufacturer / Model	Noark Ex9UE2	Noark Ex9UE2 20 1PN 275		
Connection	L-N/PE	N-PE		
Made in accordance with	EN 61643-11			
Type of delimiter	Typee 2 (klasa II, C, T2)			
Making the insert	MOV (Warystor)	GDT (Iskiernik)		
Rated voltage U _n	230 / 400 V AC			
Reference test voltage U _{REF}	255 V AC			
Continuous working voltage U_{c}	275 V AC	255 V AC		
Frequency f	50/60 Hz			
Nominal discharge current I_n (8/20 μ s)	20 kA to the pole	40 kA to the pole		
Maximum impulse current I_{imp} (10/350 μ s)	-	40 kA to the pole		



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Maximum discharge current I _{max} (8/20 μs)	40 kA to the pole	
Voltage protection level U_p for electricity I_n	1.4 kV	1.5 kV
Voltage protection level U_p for electricity I_{max}	2 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
Occasional surges U _t (paused)	335 V	1200 V
Residual current I_{PE} by U_{REF}	≤ 1 mA	-
Limiter voltage for current 1mA	387 - 473 V	-
Response time	≤ 25 ns	≤ 100 ns
Maximum fuse protection	125 A gG	-
Ability to withstand short-circuit current	50kA	<u>-</u>
Short-circuit withstand I _{SCCR}	10kA	-
Current factor k	1	kA
Type of system LV TN-:		T (1+1)

