emiternet	EM-357N AC
	STANDARD SERIES
	DESIGN: MODULAR
NOAIK	DEGREE OF PROTECTION: IP65
	YEARS OF WARRANTY: 5
	UV RESISTANCE: YES
	READY TO CONNECT: YES
	WEIGHT: 3.43 KG
@ emiternet	5 ¹ (P65) (AC) (DC) (CE)

The connection switchgear from Polish producer EMITER is designed to power photovoltaic inverters in grounded and isolated photovoltaic installations. It realizes protection against the effects of short circuits and overloads, as well as protection against the effects of direct and indirect discharges on the AC side. 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 AC SIDE

AC Surge Protector Type	Noark T1/T2
Overcurrent circuit breaker	Noark B32A 3F
Residual current circuit breaker	1 x 300mA type A

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 12 T
Number of fields	12
Dimensions of housing without chokes and MC4 (Length Width Height)	144.00 259.00 325.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
Protection class	П
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



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Working temperature

-25ºC - +60ºC

Overcurrent circuit breaker	used (MCB) (1)
Manufacturer / Model	Noark / Ex9BN 3P B32
Rated current	32A; 3-F
Rated operational voltage U _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 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 _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)
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Overvoltage limiter use	ed AC (SPD)
Manufacturer / Model	Noark Ex9UE1+2 12.5 3PN 275
Connection	L-N/PE N-PE
Made in accordance with	EN 61643-11

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Type of delimiter		Typee 1+2 (klasa	I+II, B+C, T1+T2)
Making the insert		MOV (Warystor)GDT (Iskiernik)	
Rated voltage U _n		230 \	V AC
Reference test voltage U_{REF}		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		156.2	5 kJ/Ω
Maximum impulse current I _{imp} (10/350 μs)	12.5 kA to the pole	50 kA to the pole
Maximum discharge current I _{ma}	_x (8/20 μs)	50 kA to	the pole
Voltage protection level $U_{\rm p}$ for ϵ	electricity In	1.5 kV	1.5 kV
Voltage protection level U_p for θ	electricity I _{max}	1.8 kV	1.5 kV
Voltage protection level U_p dla	5 kA (8/20 μs)	1 kV	-
N-PE Follow current extinguishi	ng capability 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	ι.	387 -	473 V
Response time		≤ 25 ns	≤ 100 ns
Maximum fuse protection		160 A gG	-
Ability to withstand short-circui	t current	50kA	-
Short-circuit withstand I_{SCCR}		10kA	-
Current factor k		1kA	-
Type of system LV			Γ(3+1)
Residual current circuit breaker used (RCD)			

Manufacturer / Model	Noark / Ex9L-N 300mA
Made in accordance with	EN 61008
Number of fields	2 / 4
Characteristic	А
Rated operational voltage U_e	240/415 V AC



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Rated current	40 / 63 A
Minimum voltage for the RCD function	Independence from tension
Voltage range for text button	150 — 440 V
Frequency f	50 Hz
Rated voltage of the insulation U _i	500 V
Conditional rated short-circuit current Inc	6 kA
Rated residual current IΔn	300mA
Tenderness	sensitive to residual sinusoidal current, rectified pulsed and smooth, high frequency (1 kHz)
Response time	immediate
Rated impulse withstand voltage U_{imp}	6 kV
Shock resistance	3000 A
Mechanical durability	20 000 connections
Electrical durability	4 000 connections
Maximum fuse protection against overload	
I _n = 40 A	32 A gG
I _n = 63 A	50 A gG
Maximum fuse protection against short-circuit effects	
I _n = 40 A	63 A gG
I _n = 63 A	63 A gG
Rated making and breaking capacity $\mbox{Im}\ \mbox{I}_{m}$	
I _n = 40 A	500 A
I _n = 63 A	630 A
Feed direction	Any (top or bottom)

