emiternet	EM-307N AC
	STANDARD SERIES
	DESIGN: MODULAR
NOATK THE NEW YORK	DEGREE OF PROTECTION: IP65
	YEARS OF WARRANTY: 5
	UV RESISTANCE: YES
	READY TO CONNECT: YES
•	WEIGHT: 3.43 KG
emiternet	5 ¹ (P_{65}) (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 B20A 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



EM-307N AC

STANDARD SERIES

Working temperature

-25ºC - +60ºC

Overcurrent circuit bre	eaker used (MCB) (1)	
Manufacturer / Model	Noark / Ex9BN 3P B20	
Rated current	20A; 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 ${\rm I_{cn}}$ in accordance with IEC 60898-1	6 kA	
Rated short-circuit breaking capacity ${\rm I}_{\rm cn}$ 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)	
$ \begin{array}{c} 1 \\ $	<u>k</u> 5 <u>×</u> 6	
Overvoltage limiter used AC (SPD)		
Manufacturer / Model	Noark Ex9UE1+2 12.5 3PN 275	
Connection	L-N/PE N-PE	
Made in accordance with	EN 61643-11	

emiternet

EM-307N AC

STANDARD SERIES

Type of delimiter		Typee 1+2 (klasa l	+II, B+C, T1+T2)	
Making the insert		MOV (Warystor)	MOV (Warystor)GDT (Iskiernik)	
Rated voltage U_n		230 \	230 V AC	
Reference test voltage U_{REF}		255 \	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	5 kJ/Ω	
Maximum impulse current l _{ir}	_{mp} (10/350 μs)	12.5 kA to the pole	50 kA to the pole	
Maximum discharge current	I _{max} (8/20 μs)	50 kA to 1	the pole	
Voltage protection level U_p f	or electricity I _n	1.5 kV	1.5 kV	
Voltage protection level U_p f	or electricity I _{max}	1.8 kV	1.5 kV	
Voltage protection level U_p c	lla 5 kA (8/20 μs)	1 kV	-	
N-PE Follow current extingui	shing 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 1	mA	387 - 4	173 V	
Response time		≤ 25 ns	≤ 100 ns	
Maximum fuse protection		160 A gG	-	
Ability to withstand short-cir	cuit current	50kA	-	
Short-circuit withstand I_{SCCR}		10kA	-	
Current factor k		1kA	-	
Type of system LV			-(3+1)	
Residual current circuit breaker used (RCD)				
Manufacturer / Medel			Noark / Ex0L N 200mA	

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



STANDARD SERIES

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)

