

STANDARD SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 2.700 KG











The connection switchgear from Polish producer KENO 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 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

Overcurrent circuit breaker

Noark B32A 3F

Residual current circuit breaker

1 x 300mA type A

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

1	Model	PHS 12 T
- 1	Number of fields	12
	Dimensions of housing without chokes and MC4 (Length Width Height)	144.00 319.00 259.00
1	Design in accordance with	EN 60670-1, EN 62208
1	Level of security	IP65
1	Protection class	II
1	Rated insulation voltage U _i	400 V AC, 1500 V DC
-	The incandescent rod test	650°C
ļ	Impact resistance	IK08
ĺ	UV resistance	YES
	Recyclable plastic	bezhalogenowy



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Working temperature $-25^{\circ}\text{C} - +60^{\circ}\text{C}$

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 $U_{\rm i}$	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)

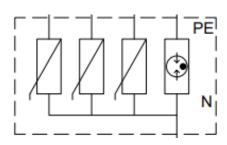
Overvoltage limiter used AC (SPD)			
Manufacturer / Model	Noark Ex9UE2 20 3PN 275		
Connection	L-N/PE	N-PE	
Made in accordance with	ide in accordance with EN 61643-11		
Type of delimiter	Typee 2 (klasa II, C, T2)		
Making the insert	MOV (Warystor)	GDT (Iskiernik)	
Rated voltage U _n	230 / 400) V AC	
Reference test voltage U _{REF}	255 V	AC	
Continuous working voltage $\mathrm{U_{c}}$	275 V AC	255 V AC	



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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)	-	12 kA to the pole
Maximum discharge current I_{max} (8/20 μ s)	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 $I_{\rm fi}$	-	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	-
Short-circuit withstand I _{SCCR}	10kA	-
Current factor k	1k	A
Type of system LV	TN-S, TT	(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 $U_{\rm e}$	240/415 V AC
	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 $U_{\rm i}$	500 V
	Conditional rated short-circuit current Inc	6 kA



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Rated residual current I∆n	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	
$I_n = 40 \text{ A}$	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 $\mbox{Im}\ \mbox{I}_{\mbox{\scriptsize m}}$	
$I_n = 40 \text{ A}$	500 A
I _n = 63 A	630 A
Feed direction	Any (top or bottom)

