

SH-212 AC

STANDARD SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 2.050 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

Noark | T2

Overcurrent circuit breaker

Noark B50A 3F

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)	144.00 319.00 259.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
Protection class	II
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



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Rated operational voltage U _e 230/415 V - 72 V DC to the pole (1P, - 48 V DC to the pole (3P, Minimum voltage 12 V AC, Rated impulse withstand voltage U _{imp} in accordance with IEC 60898-1 Rated impulse withstand voltage U _{imp} in accordance with IEC 60947-2 Rated short-circuit breaking capacity I _{cn} in accordance with IEC 60898-1 Rated short-circuit breaking capacity I _{cn} in accordance with IEC 60947-2 Rated voltage of the insulation U _i 690 V Number of poles	Overcurrent circuit breaker used (MCB) (1)				
Rated operational voltage Ue 230/415 V - 72 V DC to the pole (1P, - 48 V DC to the pole (1P, - 48 V DC to the pole (3P, Minimum voltage 12 V AC, Rated impulse withstand voltage U _{imp} in accordance with IEC 60898-1 Rated impulse withstand voltage U _{imp} in accordance with IEC 60947-2 Rated short-circuit breaking capacity I _{cn} in accordance with IEC 60898-1 Rated short-circuit breaking capacity I _{cn} in accordance with IEC 60947-2 Rated voltage of the insulation U _i 690 V Number of poles Frequency 50/60 Characteristic Design in accordance with IEC/EN 60898-1, IEC/EN 60984 Mechanical durability 20 000 connections of the content of th	N 3P B50				
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Number of poles Frequency 50/60 Characteristic Design in accordance with IEC/EN 60898-1, IEC/EN 6094 Mechanical durability 20 000 connections Electrical durability 10 000 connections	10 kA				
Frequency 50/60 Characteristic Design in accordance with IEC/EN 60898-1, IEC/EN 6094 Mechanical durability 20 000 connection Electrical durability 10 000 connection	590 V AC				
Characteristic Design in accordance with Mechanical durability Electrical durability 10 000 connections to the second	3				
Design in accordance with Mechanical durability Electrical durability 10 000 connections 10 000 connections	50/60 Hz				
Mechanical durability 20 000 connections and the second se	В				
Electrical durability 10 000 connection	60947-2				
	nections				
Energy limitation class	nections				
	3				
Category of use	Α				
Feed direction Any (top or botto	bottom)				

I used AC (SPD)		
Noark Ex9UE2 20 3PN 275		
L-N/PE	N-PE	
EN 61643-11		
Typee 2 (klasa II, C, T2)		
MOV (Warystor)	GDT (Iskiernik)	
230 / 400 V AC		
255 V AC		
275 V AC	255 V AC	
50/60 Hz		
20 kA to the pole	40 kA to the pole	
	L-N/PE EN 616 Typee 2 (kla MOV (Warystor) 230 / 40 255 V 275 V AC 50/6	



Type of system LV

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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 \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	-
Short-circuit withstand I _{SCCR}	10kA	-
Current factor k	1	kA

