<b>KEN</b>	SH-49 AC	
	STANDARD SERIES	
KENO	DESIGN: MODULAR	
	DEGREE OF PROTECTION: IP65	
	YEARS OF WARRANTY: 5	
	UV RESISTANCE: YES	
	READY TO CONNECT: YES	
	WEIGHT: 2.500 KG	
	5 <sup>1</sup> $AC$ $BC$ $CC$	

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 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

Overcurrent circuit breaker

#### 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   202.00   201.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
Protection class	11
Rated insulation voltage U <sub>i</sub>	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

Noark | T1/T2 Noark B32A 3F



### STANDARD SERIES

## 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 <sub>cn</sub> 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 <sub>i</sub>	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 Ex9UE	Noark Ex9UE1+2 12.5 3PN 275		
Connection	L-N/PE	N-PE		
Made in accordance with	EN	EN 61643-11		
Type of delimiter	Typee 1+2 (klasa I+II, B+C, T1+T2)			
Making the insert	MOV (Warys	MOV (Warystor)GDT (Iskiernik)		
Rated voltage U <sub>n</sub>	2	230 V AC		
Reference test voltage $U_{\text{REF}}$	2	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	15	156.25 kJ/Ω		

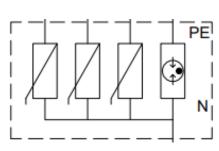


# SH-49 AC

## STANDARD SERIES

Maximum impulse current I <sub>imp</sub> (10/350 μs)	12.5 kA to the pole	50 kA to the pole
Maximum discharge current $I_{max}$ (8/20 $\mu$ s)	50 kA to the pole	
Voltage protection level $U_{\text{p}}$ for electricity $I_{\text{n}}$	1.5 kV	1.5 kV
Voltage protection level $U_{\text{p}}$ for electricity $I_{\text{max}}$	1.8 kV	1.5 kV
Voltage protection level $U_{p}$ dla 5 kA (8/20 $\mu s)$	1 kV	-
N-PE Follow current extinguishing capability $\mathbf{I}_{\mathrm{fi}}$	-	100 A
5 s	335 V	335 V
200 ms	335 V	1200 V
Residual current I <sub>PE</sub> by U <sub>REF</sub>	≤ 1 mA	-
Limiter voltage for current 1mA	387 - 473 V	
Response time	≤ 25 ns	≤ 100 ns
Maximum fuse protection	160 A gG	-
Ability to withstand short-circuit current	50kA	-
Short-circuit withstand I <sub>SCCR</sub>	10kA	-
Current factor k	1kA	-
- c		

Type of system LV



TN-S, TT (3+1)