KEN	SH-1142 AC
	STANDARD SERIES
4	DESIGN: MODULAR
	DEGREE OF PROTECTION: IP65
	YEARS OF WARRANTY: 5
	UV RESISTANCE: YES
	READY TO CONNECT: YES
	WEIGHT: 3.000 KG
	$5^{\circ} \qquad \textcircled{1500} \qquad \boxed{1500} \qquad \boxed{150} \qquad $

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	Noark T1/T2
Overcurrent circuit breaker	Noark B20A 3F
Residual current circuit breaker	1 x 300mA type A
Phase signaling	YES

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	Ш
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

Working temperature

SH-1142 AC

STANDARD SERIES

bezhalogenowy

-25ºC - +60ºC

Overcurrent circuit breaker 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 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)

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
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

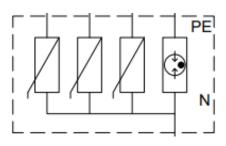


SH-1142 AC

STANDARD SERIES

Cor	ntinuous working voltage U _c	275 V AC	255 V AC
Fre	equency f	25 kA to the pole	50 kA to the pole
Spe	ecific energy W/R	156.25 kJ/Ω	
Ma	ximum impulse current I _{imp} (10/350 μs)	12.5 kA to the pole	50 kA to the pole
Ma	ximum discharge current I _{max} (8/20 μs)	50 kA to the pole	
Vol	ltage protection level U_p for electricity I_n	1.5 kV	1.5 kV
Vol	ltage protection level U_p for electricity I_{max}	1.8 kV	1.5 kV
Vol	ltage protection level U_p dla 5 kA (8/20 μ s)	1 kV	-
N-P	PE Follow current extinguishing capability I_{fi}	-	100 A
5 s		335 V	335 V
200	0 ms	335 V	1200 V
Res	sidual current I_{PE} by U_{REF}	≤ 1 mA	-
Lim	niter voltage for current 1mA	387 - 4	173 V
Res	sponse time	≤ 25 ns	≤ 100 ns
Ma	ximum fuse protection	160 A gG	-
Abi	ility to withstand short-circuit current	50kA	-
Sho	ort-circuit withstand I _{SCCR}	10kA	-
Cur	rrent factor k	1kA	-

Type of system LV



TN-S, TT (3+1)

Residual current circuit breaker used (RCD)

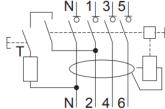
Manufacturer / Model	Noark / Ex9L-N 300mA
Made in accordance with	EN 61008
Number of fields	2 / 4
Characteristic	А
Rated operational voltage U_e	240/415 V AC
Rated current	40 / 63 A
Minimum voltage for the RCD function	Independence from tension
Voltage range for text button	150 — 440 V
Frequency f	50 Hz



SH-1142 AC

STANDARD SERIES

Rated voltage of the insulation U _i	500 V
Conditional rated short-circuit current Inc	6 kA
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 A	32 A gG
$I_{n} = 63 \text{ A}$	50 A gG
Maximum fuse protection against short-circuit effects	
$I_{n} = 40 \text{ A}$	63 A gG
$I_{n} = 63 \text{ A}$	63 A gG
Rated making and breaking capacity ${\rm Im}~{\rm I_m}$	
$I_{n} = 40 \text{ A}$	500 A
I _n = 63 A	630 A
Feed direction	Any (top or bottom)
N 1 3	5



Phase indicator used	
Model	Ex9PDe
Made in accordance with	EN 60947-5-1
Rated operational voltage U_e	24/48 DC 240 V AC
Rated current le	≤20mA / LED
Conventional thermal current in open space I_n	20 mA
Frequency f	50 Hz
Rated voltage of the insulation U _i	500V
Rated voltage impact resistance U _{imp}	4kV
Electrical durability	≥30 000 work hours



SH-1142 AC

STANDARD SERIES

 \geq 40 cd/m2

Diode luminance

