

STANDARD SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 3.400 KG











The connection panel from the Polish manufacturer KENO is intended for supplying power to photovoltaic inverters., protects against the effects of short circuits and overloads, It also ensures protection against the effects on the alternating and direct current sides. The distribution board should be used in grounded and isolated photovoltaic installations. 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 DC SIDE	
Number of inputs PV string outputs	2 2
Quantity Type of DC surge arrester Type	2 Phoenix T2
Connection type	Array MC4 Stäubli

BASIC FARAMETERS AC SIDE	
AC Surge Protector Type	Noark T2
Overcurrent circuit breaker	Noark B20A 1F
Residual current circuit breaker	1 x 100mA type A

DACIC DADAMETERS AC SIDE

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING	
Model	PHS 24 T
Number of fields	24
Dimensions of housing without chokes and MC4 (Length Width Height)	120.00 128.00 201.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65



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Protection class	II
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
Working temperature	-25ºC - +60ºC

DC surge arrester used (SPD)

Overcurrent circuit breaker used (MCB) (1)

Manufacturer / Model	Noark / Ex9BN 1P B20	
Rated current	20A; 1-F	
Rated operational voltage $U_{\rm e}$	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	1	
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)



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Manufacturer / Model	Noark Ex9UE2 20 1PN 275

Connection L-N/PE N-PE

Made 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 U_c 275 V AC 255 V AC

Frequency f 50/60 Hz

Nominal discharge current I_n (8/20 μs) 20 kA to the pole 40 kA to the pole

Maximum impulse current I_{imp} (10/350 µs) 40 kA to the pole

40 kA to the pole Maximum discharge current I_{max} (8/20 µs)

Voltage protection level U_p for electricity I_n 1.4 kV 1.5 kV

Voltage protection level Up for electricity Imax 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_{fi} 100 A

335 V 1200 V Occasional surges Ut (paused)

≤ 1 mA

Residual current I_{PE} by U_{REF} Limiter voltage for current 1mA 387 - 473 V

Response time ≤ 25 ns ≤ 100 ns

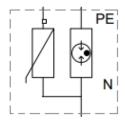
Maximum fuse protection 125 A gG

50kA Ability to withstand short-circuit current

Short-circuit withstand I_{SCCR} 10kA

Current factor k 1kA

Type of system LV TN-S, TT (1+1)



Residual current circuit breaker used (RCD)

Noark / Ex9L-N 100mA Manufacturer / Model

Made in accordance with EN 61008

Number of fields 2/4



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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 I _{nc}	6 kA
Rated residual current l∆n	100mA
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
$I_{n} = 63 \text{ A}$	50 A gG
Maximum fuse protection against short-circuit effects	
$I_n = 40 \text{ A}$	63 A gG
I _n = 63 A	63 A gG
Rated making and breaking capacity $\operatorname{Im} I_{\operatorname{m}}$	
$I_n = 40 A$	500 A
$I_{n} = 63 \text{ A}$	630 A
Feed direction	Any (top or bottom)

