



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP66
- YEARS OF WARRANTY: 2
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 16.040 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 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	Without miniature circuit breaker
Fuse disconnecter	50 A gG
Fuse switch disconnecter	RBK 160A

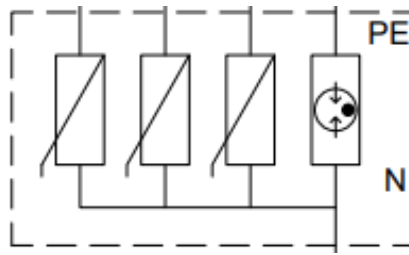
ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	BF-IP66 84
The number of modules	84
Dimensions of housing without chokes and MC4 (Length Width Height)	300.00 500.00 700.00
Design in accordance with	EN/IEC 62208, EN/IEC 61439-1-4, Dyrektywa RoHS 2011/65/EU Dyrektywa Niskonapięciowa 2006/95/EC (do 1500 VDC)
Level of security	IP66
Protection class	II
Rated insulation voltage U_i	1000 V AC, 1500 V DC
The incandescent rod test	960°C
Impact resistance	IK10 +35°C / IK08 -25°C

UV resistance	UL 508
Flammability class	UL 94-5VA / UL 94-V0
NEMA standard	NEMA 4, 4X, 12, 13
Temperature °C (short-term)	-40 ... 120°C
Temperature °C (continuous work)	-40 ... 80°C
Temperature °F (short-term)	-40 ... 250°F
Temperature °F (continuous work)	-40 ... 175°F

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	
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	156.25 kJ/Ω	
Maximum impulse current I_{imp} (10/350 μs)	12.5 kA to the pole	50 kA to the pole
Maximum discharge current I_{max} (8/20 μs)	50 kA to the pole	
Voltage protection level U_p for electricity I_n	1.5 kV	1.5 kV
Voltage protection level U_p for electricity I_{max}	1.8 kV	1.5 kV
Voltage protection level U_p dla 5 kA (8/20 μs)	1 kV	-
N-PE Follow current extinguishing capability I_{fi}	-	100 A
5 s	335 V	335 V
200 ms	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	160 A gG	-
Ability to withstand short-circuit current	50kA	-
Short-circuit withstand I_{SCCR}	10kA	-
Current factor k	1kA	-
Type of system LV	TN-S, TT (3+1)	



Fuse protection used gG AC

Model	D02 400V AC gG 50A
Characteristic	gG
Rated current	50A
Rated voltage	400V AC
Short-circuit breaking capacity	50kA

Used fuse switch disconnecter RBK

Model	RBK 00
Rated thermal current I_{th}	160 A
Rated voltage U_n	690 V
Category of use	AC-22B
Type of control voltage	AC
Rated switching current I_e	160 A
Switching voltage U_e	690 V
Rated current contractual short-circuit withstand:	
690 V	80 kA
500 V	-
400 V	100 kA
Rated short-circuit current:	
690 V	80 kA
500 V	-
400 V	100 kA
Rated insulation voltage U_i	1000 V
Rated surge voltage paused U_{imp}	8 kV
Rated frequency	50-60 Hz
Mechanical durability	1600 connections
Electrical durability	200 connections

Level of security IP

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