



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 2
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 1.300 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	Dehn T2
Overcurrent circuit breaker	Noark B20A 1F
Residual current circuit breaker	1 x 300mA type 0

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)	120.00 201.00 202.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
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

-25°C - +60°C

Overcurrent circuit breaker used (MCB) (1)

Manufacturer / Model	Noark / Ex9BN 1P B20
Rated current	20A; 1-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	1
Frequency	50/60 Hz
Characteristic	B
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	A
Feed direction	Any (top or bottom)



Overvoltage limiter used AC (SPD)

Manufacturer / Model	Dehn DG M TN 275
Surge arrester according to PN-EN 61643-11	Type 2 / klasa II
Energy coordination with the terminal device (≤ 10 m)	Type 2 + Type 3

Rated voltage AC (U_n)	230 V (50 / 60 Hz)
The greatest voltage of permanent work AC (U_c)	275 V (50 / 60 Hz)
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Maximum discharge current (8/20 μ s) (I_{max})	40 kA
Voltage protection level [L-PE]/[N-PE] (U_p)	$\leq 1,5 / \leq 1,5$ kV
Voltage protection level [L-PE] / [N-PE] by 5 kA (U_p)	$\leq 1 / \leq 1$ kV
Response time (t_A)	≤ 25 ns
Maximum fuse protection	125 A gG
Short-circuit withstand at maximum fuse (I_{SCCR})	50 kArms
Occasional surges (TOV) (U_t) - characteristic	335 V / 5 s - durable
Occasional surges (TOV) (U_t) - characteristic	440 V / 120 min - safe damage

