



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 1.800 KG



The connection distribution board from the Polish manufacturer KENO provides protection against the consequences of both indirect and direct lightning discharges on the alternating current side. The connection distribution board is intended for use 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 AC SIDE

AC Surge Protector | Type

Phoenix | T1/T2

Overcurrent circuit breaker

Without miniature 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)	120.00 201.00 202.00
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

Overvoltage limiter used AC (SPD)

Manufacturer / Model	Phoenix / VAL-MS-T1/T2 335/12.5/3+1
Made in accordance with	EN 61643-11 / IEC 61643-11
Test class IEC	I / II, T1 / T2
Type EN	T1 / T2
Power system IEC	TT, TN-S
Number of poles	4
Protective tracks	L-N, L-PE, N-PE
Direction of action	3L-N & N-PE
Rated voltage U_n	240/415 V AC (TN-S)
	240/415 V AC (TT)
Rated frequency fN	50 Hz (60 Hz)
The highest working voltage U_c (L-N)	335 V AC
Maximum permanent voltage U_c (L-PE)	335 V AC
The highest working voltage U_c (N-PE)	264 V AC
Rated load current I_L	80 A
Current of the protective conductor I_{PE}	$\leq 5 \mu A$
Power consumption in standby mode P_c	$\leq 810 \text{ mVA}$
Nominal discharge current I_n (8/20) μs (L-N)	12,5 kA
Nominal discharge current I_n (8/20) μs (L-PE)	12,5 kA
Nominal discharge current I_n (8/20) μs (N-PE)	50 kA
Maximum discharge current I_{max} (8/20) μs	50 kA
Testing lightning current (10/350) μs (L-N), ładunek	6,25 As
Testing lightning current (10/350) μs (L-N), Specific energy	39 kJ/ Ω
Testing lightning current (10/350) μs , (L-N) wartość szczytowa prądu I_{imp}	12,5 kA
Testing lightning current (10/350) μs (L-PE), ładunek	6,25 As
Testing lightning current (10/350) μs (L-PE), Specific energy	39 kJ/ Ω
Testing lightning current (10/350) μs , (L-PE) wartość szczytowa prądu I_{imp}	12,5 kA
Testing lightning current (10/350) μs (N-PE), ładunek	25 As
Testing lightning current (10/350) μs (N-PE), Specific energy	625 kJ/ Ω
Testing lightning current (10/350) μs , (N-PE) wartość szczytowa prądu I_{imp}	50 kA
Total current discharged I_{total} (8/20) μs	50 kA
Total current discharged I_{total} (10/350) μs	50 kA

Follow current extinguishing capability I_{fi} (N-PE)	100 A
Short circuit resistant I_{SCCR}	25 kA
Protection level U_p (L-N)	$\leq 1,2$ kV
	$\leq 1,6$ kV (30 kA - 8/20 μ s)
Protection level U_p (L-PE)	≤ 2 kV
Protection level U_p (N-PE)	$\leq 1,7$ kV
Residual voltage U_{res} (L-N)	$\leq 1,2$ kV (by I_n)
	$\leq 1,1$ kV (by 10 kA)
	≤ 1 kV (by 5 kA)
	$\leq 0,9$ kV (by 3 kA)
Residual voltage U_{res} (L-PE)	≤ 2 kV (by I_n)
	$\leq 1,5$ kV (by 10 kA)
	$\leq 1,2$ kV (by 5 kA)
	$\leq 1,1$ kV (by 3 kA)
Residual voltage U_{res} (N-PE)	$\leq 0,6$ kV (by I_n)
	$\leq 0,5$ kV (by 10 kA)
	$\leq 0,5$ kV (by 5 kA)
	$\leq 0,4$ kV (by 3 kA)
TOV behavior for U_t (L-N)	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior for U_t (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 ns
Maximum pre-fuse in through-flow installations V	80 A (gG - 16 mm ²)
Maximum fuse value for radial installations	160 A (gG)
Maximum discharge current I_{max} (8/20) μ s	65 kA

