SH-101 DCAC

STANDARD SERIES

- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 1.400 KG

The connection panel from the Polish manufacturer KENO is intended for supplying power to photovoltaic inverters., Protections against short circuits and overloads., It also ensures protection against the effects on the 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	1 | 1
Quantity | Type of DC surge arrester | Type	1 | Phoenix | T2
Connection type	Array MC4 Stäubli

BASIC PARAMETERS AC SIDE	
AC Surge Protector | Type	0 | -
Overcurrent circuit breaker	Noark B16A 1F

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 | 202.00 | 201.00
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	-25ºC – +60ºC

DC surge arrester used (SPD)

Manufacturer / Model	Phoenix / VAL-MS 1000DC-PV/2+V
Surge protection	T2
Idle voltage U_{OCSTC}	≤ 975 V DC
Maximum discharge current I_{max} (8/20) µs	40 kA
Response time t_A	≤ 25 ns
Total current discharged I_{total} (8/20) µs	40 kA
Insulation resistance R_{iso}	> 5 GΩ (by 500 V DC)
Nominal discharge current I_n (8/20) µs	15 kA
Rated load current I_L	80 A
Long-term operating current I_{CPV}	< 20 µA
Maximum permanent voltage U_{CPV}	1170 V DC
Short circuit resistant I_{SCPV}	2000 A
Residual voltage U_{res}	≤ 3,7 kV (by I_n)
-	≤ 3,1 kV (by 5 kA)
-	≤ 3,5 kV (by 10 kA)
-	≤ 4 kV (by 20 kA)
-	≤ 4,6 kV (by 30 kA)
-	≤ 5 kV (by 40 kA)
Current of the protective conductor I_{PE}	≤ 20 µA DC
-	≤ 250 µA AC
Protection level U_p	≤ 3,7 kV
Power consumption in standby mode P_C	≤ 25 mVA
Connection configuration	Configuration Y

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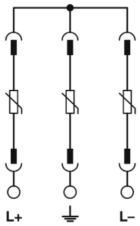

Overcurrent circuit breaker used (MCB) (1)	
Manufacturer / Model	Noark / Ex9BN 1P B16
Rated current	16A; 1-F
Rated operational voltage U_e	230/415 V AC
-	72 V DC to the pole (1P, 2P)
-	48 V DC to the pole (3P, 4P)
Minimum voltage	12 V AC/DC
Rated impulse withstand voltage U_{imp} in accordance with IEC 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)