



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 1.600 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 | Noark T2 |
| Overcurrent circuit breaker | Noark B10A 3F |

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

| | |
|---|--------------------------|
| Model | PHS 12 T |
| Number of fields | 12 |
| 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 | -25°C - +60°C |

Overcurrent circuit breaker used (MCB) (1)

| | |
|---|--------------------------------|
| Manufacturer / Model | Noark / Ex9BN 3P B10 |
| Rated current | 10A; 3-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 | 3 |
| 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 | Noark Ex9UE2 20 3PN 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 μ s) | 20 kA to the pole | 40 kA to the pole |

Maximum impulse current I_{imp} (10/350 μ s) - 12 kA to the pole

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

Voltage protection level U_p for electricity I_n 1.4 kV 1.5 kV

Voltage protection level U_p for electricity I_{max} 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

Occasional surges U_t (paused) 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 125 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)

