

# SH-50 AC

## STANDARD SERIES



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 2.500 KG



### BASIC PARAMETERS AC SIDE

AC Surge Protector   Type	Noark   T1/T2
Overcurrent circuit breaker	Noark B40A 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)	144.00   319.00   259.00
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

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### Overcurrent circuit breaker used (MCB) (1)

Manufacturer / Model	Noark / Ex9BN 3P B40
Rated current	40A; 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 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	

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Maximum impulse current $I_{imp}$ (10/350 $\mu$ s)	12.5 kA to the pole	50 kA to the pole
Maximum discharge current $I_{max}$ (8/20 $\mu$ s)	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 $\mu$ s)	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 $U_{REF}$	$\leq 1$ mA	-
Limiter voltage for current 1mA	387 - 473 V	
Response time	$\leq 25$ ns	$\leq 100$ 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)

