



ESB 12 P 415:

Mains connection box set for 3-phase 240 / 415V TN-(C-)S systems with IP65 enclosure.

Premounted with DEHNventil modular combined lightning current and surge arrester (part no. 951 400).

- Ready-to-install equipment for use acc. to the lightning protection zones concept as required in BSEN 62305-4
- Quick and easy installation as premounted with spark-gap-based combined lightning current and surge arrester
- Maximum system availability due to RADAX-Flow follow current limitation
- No tripping of 20 A gL/gG fuses up to short-circuit currents of 50 kA_{rms}
- Discharge capacity I_{imp} up to 100 kA (10/350 μs)
- Design and specification giving enhanced SPD performance as outlined in BSEN 62305
- Operating state/fault indication by mark in the inspection window
- Enclosure with transparent cover, degree of protection: IP 65

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SPD Features	:
SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Nominal a.c. voltage [U_N]	240 / 415 V
Power supply system	TN-(C-)S system
Max. continuous operating a.c. voltage [U_C]	255 V
Lightning impulse current (10/350 μs) [L1+L2+L3+N-PE] [I_{imp}]	100 kA
Lightning impulse current (10/350 μs) [L,N-PE] [I_{imp}]	25 kA
Lightning impulse current (10/350 μs) [I_{imp}]	25 / 100 kA
Nominal discharge current (8/20 μs) [I_n]	25 / 100 kA
Voltage protection level [L-PE] [U_p]	≤ 1.5 kV
Voltage protection level [N-PE] [U_p]	≤ 1.5 kV
Voltage protection level [U_p]	≤ 1.5 kV
Follow current extinguishing capability a.c. [I_{ff}]	50 kA _{rms}
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 kA _{rms} (prosp.)
Response time [t_A]	≤ 100 ns
Max. backup fuse (L) up to I_K = 50 kA_{rms}	315 A gL/gG
Max. backup fuse (L) for I_K > 50 kA_{rms}	200 A gL/gG
Max. backup fuse (L-L)	125 A gL/gG
Temporary overvoltage (TOV) [U_{TOV}]	440 V / 5 sec.
TOV characteristics	withstand
Operating state/Fault indication	green / red
Cross-sectional area (L1, L1', L2, L2', L3, L3', N, N', PE, ÷)	10 mm ² solid/flexible

Cross-sectional area (L1, L2, L3, N, PE)	50 mm ² stranded/35 mm ² flexible
Cross-sectional area (L1', L2', L3', N', ±)	35 mm ² stranded/25 mm ² flexible
SPD material	red thermoplastic, UL 94 V-0
MAINS CONNECTION BOX Features	:
Enclosure material	ABS with polycarbonate lid
Degree of protection acc. to EN 60529	IP 65
Cover type	transparent cover
Colour of enclosure	grey
Number of cable entries	10 cable entries
Capacity	9 modules
Dimension	Height: 210 x Width: 215 x Depth: 100mm

Change in form and technology, with masses, weights and materials we reserve ourselves in the sense of the progress of the technology. The illustrations are noncommittal.