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**ESB 12 PF 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 arrestor (part no. 951 400) and integrated 3P fuse holder (part no. 29214) including 3 x 22 x 58mm 100A gL / gG cylinder fuses (part no. 18063).

- 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<sub>rms</sub>
- Discharge capacity  $I_{imp}$  up to 100 kA (10/350  $\mu$ s)
- Design and specification giving enhanced SPD performance as outlined in BSEN 62305
- Operating state/fault indication by mark in the inspection window
- Fuse holder with 100 A gG cylinder fuses
- Enclosure with transparent cover, degree of protection: IP 65

**DSP 12 PF 415**

SPD Features	:
SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Nominal a.c. voltage [U <sub>N</sub> ]	230 / 400 V
Power supply system	TN-(C)-S system
Max. continuous operating a.c. voltage [U <sub>C</sub> ]	255 V
Lightning impulse current (10/350 $\mu$ s) [L1+L2+L3+N-PE] [I <sub>imp</sub> ]	100 kA
Lightning impulse current (10/350 $\mu$ s) [L,N-PE] [I <sub>imp</sub> ]	25 kA
Lightning impulse current (10/350 $\mu$ s) [I <sub>imp</sub> ]	25 / 100 kA
Nominal discharge current (8/20 $\mu$ s) [I <sub>n</sub> ]	25 / 100 kA
Voltage protection level [L-PE] [U <sub>p</sub> ]	$\leq$ 1.5 kV
Voltage protection level [N-PE] [U <sub>p</sub> ]	$\leq$ 1.5 kV
Voltage protection level [U <sub>p</sub> ]	$\leq$ 1.5 kV
Follow current extinguishing capability a.c. [I <sub>fi</sub> ]	50 kA <sub>rms</sub>
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time [t <sub>A</sub> ]	$\leq$ 100 ns
Max. backup fuse (L) up to I <sub>K</sub> = 50 kA <sub>rms</sub>	315 A gL/gG
Max. backup fuse (L) for I <sub>K</sub> > 50 kA <sub>rms</sub>	200 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) [U <sub>TOV</sub> ]	440 V / 5 sec.
TOV characteristics	withstand
Operating state/Fault indication	green / red

<b>Cross-sectional area (L1, L1', L2, L2', L3, L3', N, N', PE, <math>\pm</math>)</b>	10 mm <sup>2</sup> solid/flexible
<b>Cross-sectional area (L1, L2, L3, N, PE)</b>	50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
<b>Cross-sectional area (L1', L2', L3', N', <math>\pm</math>)</b>	35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible
<b>SPD material</b>	red thermoplastic, UL 94 V-0
<b>MAINS CONNECTION BOX Features</b>	:
<b>Ambient temperature range [T<sub>U</sub>]</b>	-25°C...+40°C
<b>Enclosure material</b>	polystyrene
<b>Impact strength according to DIN EN 50102</b>	IK 07 (2 Joule loads)
<b>Degree of protection acc. to EN 60529</b>	IP 65
<b>Cover type</b>	transparent cover
<b>Colour of enclosure</b>	grey
<b>Number of cable entries</b>	10 elastic cable entry
<b>Capacity</b>	14 mods.
<b>Dimension (W x H x D)</b>	300 x 300 x 142 mm
<b>FUSE Features</b>	:
<b>Rated current / Utilisation category</b>	100 A gG
<b>Fuse size</b>	22 x 58 mm
<b>Cylinder fuse module</b>	3-pole

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.