LVTG1000CP

NH Disconnector vertical design LV size 3 1000A 185mm 3pole M12

Technical properties

Architecture

Number of poles	3 P
Type of pole	3 P

Configuration

Distance between rail centre, 40 mm	No
Distance between rail centre, 50 mm	No
Distance between rail centre, 60 mm	No
Distance between rail centre, 100 mm	No
Distance between rail centre, 185 mm	Yes

Main electrical features

Rated operational voltage Ue	0 / 690 V AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	1000 V
Rated impulse withstand voltage	12 kV

Electric current

Rated current for Ue=400V AC according to IEC 61439-1 5.3.2	1000 A
Rated current for Ue=500V AC according to IEC 61439-1 5.3.2	1000 A
Rated current for Ue=690V AC according to IEC 61439-1 5.3.2	1000 A
Rated current	1000 A
Rated short-time withstand current 1s	15 kA
Conventional free air thermal current with Trennmesser and std. cross section	1000 A
Acceptable current rating with AC22 category B	1000 A
Acceptable current rating with AC23 category B	1000 A

Electric current / temperature

Rating current 40°C	1000 A
Rating current 45°C	950 A
Rating current 50°C	900 A
Rating current 55°C	850 A
Rating current 60°C	800 A
Rating current 65°C	750 A

Rating current 70°C	700 A

Fuse

Fuse Size	NH3

Dimensions

Height of installed product	188 mm
Length	743 mm
Width of installed product	100 mm
Width of the busbars	5 / 10 mm
Busbar distance	185 mm

Power

Total power loss under IN	318 W
Dissipated energy in cable	366 W

Endurance

Electric endurance in number of cycles	100
Number of mechanical operations	500
Total service life (mechanical and electrical endurance) IEC 60947-3 Table 4	600

Materials

Copper weight of the product	3980 g
Silver weight of the product	4.57 g

Installation, mounting

Tightening torque	32Nm
Torque at mounting on busbar	32 Nm

Connection

Connection cross-sect. flexible conductor	2x 30mm x 5mm - 2x 60mm x 5mm
Connection cross-sect. rigid cable	2x 30mmx5mm - 2x60mmx5mm
Connector type	with permanently installed NH solid link 1000A
Type of connection	Screw connection

Standards

Rated duties according to IEC 60947-1 4.3.4	Continuous operation
Operation of switching devices according to IEC 60947-1 2.4	depending manual operation (of a mechanical switching device)
Utilisation category for Ue=400V AC according to IEC 60947-3 Table 5	AC-22B
Utilisation category for Ue=500V AC according to IEC 60947-3 Table 5	AC-21B
Utilisation category for Ue=690V AC according to IEC 60947-3 Table 5	AC-21B

Safety

REACH conform	Yes
RoHS conform	Yes

Use conditions

Operating temperature	-25…55 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Storage/transport temperature	-40…70 °C