RCBO 1P+N 6kA C-20A 300mA AC

Technische Merkmale

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	C

Main electrical features

Frequency	50 Hz
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	240 V

Voltage

Rated insulation voltage	500 V
Max operating voltage	240 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	300 mA
Withstand not tripping on 8-20 µs wave	250 A
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	6 kA
Breaking and opening capacity	6 kA
Magnetic regulating currrent at 40° C	5/10 In
min/maxi threshold value of the AC thermal operation	1,13/1,45 In

Electric current / temperature

Rating current -15°C	22,2 A
Rating current -20°C	22,5 A
Rating current 0°C	21,5 A
Rating current 10°C	21 A
Rating current -10°C	22 A
Rating current 15°C	20,8 A
Rating current 20°C	20,5 A
Rating current 25°C	20,3 A
Rating current -25°C	22,7 A
Rating current 30°C	20 A
Rating current 35°C	19,8 A
Rating current 40°C	19,6 A
Rating current 45°C	19,4 A
Rating current 5°C	21,3 A
Rating current -5°C	21,8 A
Rating current 50°C	19,2 A
Rating current 55°C	19 A
Rating current 60°C	18,8 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0,95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0,9
Correction factor of rating current for 6 devices placed side-by-side	0,85

Selectivity

Minimal rating current of upstream aM fuse for selectivity on short-circuit	25 A
Minimal rating current of upstream gL fuse for selectivity on short-circuit	32 A
Maximal rating current of downstream aM fuse for selectivity on short-circuit	4 A
Maximal rating current of downstream gL fuse for selectivity on short-circuit	12 A

Power

Power loss per pole at In	4 W
Total power loss under IN	5,2 W

Tripping

Protected against nuisance tripping	no

Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	2000

Dimensions

Depth of installed product	68 mm
Height of installed product	83 mm
Width of installed product	35 mm

Connection

Connection cross-section at output with screw, for flexible conductor	1/16 mm²
Connection cross-section of the access with screws, with flexible conductor	1/16 mm²
Connection cross-section at output with screw, for massive conductor	1/25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1/25 mm²
Connection cross-sect. rigid cable	1 / 25mm²
Connection cross-sect. flexible conductor	1 / 16mm²
Type of connection	with screw

Standards

Standard text	IEC 61009-1
European directive WEEE	concerned

Safety

Protection index IP	IP20
Residual current type	AC

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Storage temperature	-25 to 70 °C
Air humidity protection	for all climates

temperatur

Temperature of calibration	30 °C