



AD190

RCBO 1M 1P 10kA C-32A 30mA AC

Technical properties

Architecture

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

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	1
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Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	10 kA
Rated operational voltage U_e	230 / 240 V
Frequency	50/60 Hz

Voltage

Rated insulation voltage	250 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	30 mA
Rated current	32 A
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 I_n
Magnetic regulating current	5 / 10 I_n
Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	10 kA

Electric current / temperature

Rating current -25°C	40.06 A
Rating current -20°C	39.39 A
Rating current -15°C	38.72 A
Rating current -10°C	38.03 A
Rating current -5°C	37.33 A
Rating current 0°C	36.62 A

Rating current 5°C	35.89 A
Rating current 10°C	35.14 A
Rating current 15°C	34.39 A
Rating current 20°C	33.61 A
Rating current 25°C	32.81 A
Rating current 30°C	32 A
Rating current 35°C	31.16 A
Rating current 40°C	30.31 A
Rating current 45°C	29.42 A
Rating current 50°C	28.51 A
Rating current 55°C	27.57 A
Rating current 60°C	26.6 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

Dimensions

Depth of installed product	70 mm
Height of installed product	115 mm
Width of installed product	17.5 mm

Frequency

Frequency	50 to 60 Hz
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Power

Total power loss under IN	9.63 W
Power loss per pole at In	5.53 W

Tripping

Protected against nuisance tripping	No
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Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	1000

Installation, mounting

Tightening torque	2,1Nm
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Connection

Connection cross-section at output with screw, for 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-section of the access with screws, with flexible conductor	1 / 16 mm²
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Standards

Standard text	IEC 61009-1 ; EN 61009-1
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Safety

Residual current type	AC
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Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	Execution II