ADM420G

RCBO 4P 6kA B-20A 30mA A

Product Datasheet

Architecture

Neutral position	without neutral
Number of protected poles	4
Type of pole	4 P
Fixing mode	Din-Rail
Curve	B

Functions

Sealable	yes

Controls and indicators

Ground fault signalisation	yes
With Contact position indicator	yes
With fault indicator	yes

Connectivity

Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal

Main electrical features

Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Frequency	50 Hz

Voltage

Dielectric strength value of power frequency	2 kV
Rated insulation voltage	500 V
Rated impulse withstand voltage	4 kV

Electric current

Rated residual operating current	30 mA
Rated current	20 A
Withstand not tripping on 8-20 µs wave	3 kA
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 In
Magnetic regulating currrent	3 / 5 In
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA

Electric current / temperature

Rating current -25°C	23,8 A
Rating current -20°C	23,5 A
Rating current -15°C	23,2 A
Rating current -10°C	22,9 A
Rating current -5°C	22,5 A
Rating current 0°C	22,2 A
Rating current 5°C	21,8 A
Rating current 10°C	21,5 A
Rating current 15°C	21,1 A
Rating current 20°C	20,8 A
Rating current 25°C	20,4 A
Rating current 30°C	20 A
Rating current 35°C	19,6 A
Rating current 40°C	19,1 A
Rating current 45°C	18,6 A
Rating current 50°C	18,2 A
Rating current 55°C	17,7 A
Rating current 60°C	17,2 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	0,8
Correction factor of rating current for 3 devices placed side-by-side	0,8
Correction factor of rating current for 4 and 5 devices placed side-by-side	0,7
Correction factor of rating current for 6 devices placed side-by-side	0,6

Frequency

Frequency	50 Hz

Power

Total power loss under IN	11,7 W
Power loss per pole at In	3 W

Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	4000

Dimensions

Depth of installed product	70 mm
Height of installed product	84 mm
Width of installed product	71 mm

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2Nm
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	BIconnect
Top removability for modular devices	yes
Bottom removability for modular devices	yes
Suitable for flush-mounting	yes
360° product mounting position	yes

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
Cage clamp position	in line
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm²
Nominal tightening torque bottom terminal	2 Nm
Nominal tightening torque top terminal	2 Nm

Cable

Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm²) according to product standard	2,5 mm²

Equipment

Can be accessorized	yes
Accept terminal cover	no
With transparent product label holder	yes

Standards

Standard text	EN 61009-1
European directive WEEE	concerned

Safety

Protection index IP	IP20
Residual current type	A

Use conditions

Operating temperature	-25…40 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Storage/transport temperature	-55…70 °C

temperatur

Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	24,5 °C
Max. admissible temperature on accessible parts (intended to be touched)	71,4 °C
Max. admissible temperature on accessible parts (manual operating means)	53,1 °C
Max. admissible temperature on access. parts (not touched for normal operation)	95,7 °C
Max. admissible temperature on terminals	75,2 °C
Temp.-rise limits for access. parts (toggle) according to product standard	25 K
Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temp.rise limits for access. parts (to be touched) according to product standard	40 K
Temperature-rise limits for terminals according to the product standard	65 K
Temperature-rise measured on accessible parts at In (manual operating means)	13,1 K
Temperature-rise measured on access. parts at In (not touched normal operation)	55,7 K
Temperature-rise measured on accessible parts at In (intended to be touched)	31,4 K
Temperature-rise measured on terminals at In	35,2 K