



AD825J

RCBO 1P+N 4.5kA B-25A 30mA AC

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Concurrently switching N-neutral	yes
Curve	B

Main electrical features

Frequency	50 Hz
Rated short circuit breaking capacity Icn AC according IEC60898-1	4,5 kA
Rated operational voltage Ue	240 V

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	30 mA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	4,5 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	4,5 kA
Magnetic regulating current at 40° C	3/5 In
min/maxi threshold value of the AC thermal operation	1,13/1,45 In

Electric current / temperature

Rating current -15°C	27,6 A
Rating current -20°C	27,9 A
Rating current 0°C	26,8 A
Rating current 10°C	26,2 A
Rating current -10°C	27,4 A
Rating current 15°C	25,9 A
Rating current 20°C	25,6 A

Technical Properties

Rating current 25°C	25,3 A
Rating current -25°C	28,2 A
Rating current 30°C	25 A
Rating current 35°C	24,8 A
Rating current 40°C	24,5 A
Rating current 45°C	24,3 A
Rating current 5°C	26,5 A
Rating current -5°C	27,1 A
Rating current 50°C	24 A
Rating current 55°C	23,8 A
Rating current 60°C	23,5 A

Current correction factors

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

Selectivity

Minimal rating current of upstream aM fuse for selectivity on short-circuit	32 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	8 A

Power

Power loss per pole at I _n	5,9 W
Total power loss under I _N	9,3 W

Tripping

Protected against nuisance tripping	no
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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

Installation, mounting

Tightening torque	2,1Nm
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Connection

Connection cross-sect. rigid cable	1 / 25mm ²
Connection cross-sect. flexible cable	1 / 16mm ²
type of connection	with screw

Standards

Standard text	EN 61009-1
European directive RoHs	voluntary compliance
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 I ² t	3
Altitude	2000 m
Storage temperature	-25 to 70 °C
Air humidity protection	for all climates