Product Datasheet
ADA166U



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RCBO Electronic 1P 10kA C Curve-16A, 30mA Type A(AC & Pulsating DC Sensitive)1M

Technical Features

Architecture	
Type of pole	1P
Curve	C
Electric current	
Rated current	16 A
Rated residual operating current Idn	30 mA
Rated current -25°C	22.23 A
Rated current at -20°C	21.74 A
Rated current -15°C	21.23 A
Rated current -10°C	20.72 A
Rated current -5°C	20.19 A
Rated current at 0°C	19.64 A
Rated current 5°C	19.08 A
Rated current 10°C	18.51 A
Rated current 15°C	17.91 A
Rated current at 20°C	17.30 A
Rated current 25°C	16.66 A
Rated current 30°C	16 A
Rated current 35°C	15.38 A
Rated current at 40°C	14.75 A
Rated current at 50°C	13.50 A
Rated current 55°C	12.88 A
Rated current 60°C	12.25 A
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	0.90
Correction factor of rating current for 6 devices placed side by side	0.85
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A
Safety	
Residual current type	A
Ingress Protection (IP) class	IP20
Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
Voltage	
Rated insulation voltage Ui	250 V
Rated impulse withstand voltage Uimp	4000 V
Max. operating voltage	253 V
Rated operational voltage Ue	230 - 240 V
Overvoltage category according to IEC 60947-1	3
Power	
Total power loss under IN	4.74 W
Frequency	
Frequency	50 - 50 Hz
Use conditions	
Max. altitude	2000 m
Class of energy limitation I^2t	3
Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	1000

Connection	
Cross-section of input with screws, for flexible conductors	1 - 16 mm²
Cross-section of input with screws, for massive conductors	1 - 25 mm²
Installation, mounting	
Nominal tightening torque	2.10 - 2.10 Nm
Capacity	
Number of modules	1
Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
Dimensions	
Height	115 mm
Width	17.80 mm
Depth	70 mm
Use conditions	
Operating temperature	-5 - 60 °C
Storage/transport temperature	-25 - 60 °C
Connection	
Cross-section of input and output with screws, for flexible conductors	1 - 16 mm²
Cross-section of input and output with screws, for massive conductors	1 - 25 mm²
Sustainability	
RoHS conform	Yes