



ADC833F

**RCBO 1P+N 4.5kA C-25A 30mA AC Class 60Hz**

**Technical Features**

**Architecture**

Type of pole	1P+N
Curve	C

**Electric current**

Rated current	25 A
Rated residual operating current I <sub>dn</sub>	30 mA
Rated current -25°C	28.20 A
Rated current at -20°C	27.90 A
Rated current -15°C	27.60 A
Rated current -10°C	27.40 A
Rated current -5°C	27.10 A
Rated current at 0°C	26.80 A
Rated current 5°C	26.50 A
Rated current 10°C	26.20 A
Rated current 15°C	25.90 A
Rated current at 20°C	25.60 A
Rated current 25°C	25.30 A
Rated current 30°C	25 A
Rated current 35°C	24.80 A
Rated current at 40°C	24.50 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	AC
Ingress Protection (IP) class	IP20

**Main electrical attributes**

Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1	4.50 kA
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**Connectivity**

Type of connection	Screw terminal
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**Voltage**

Rated insulation voltage U <sub>i</sub>	500 V
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**Electric current**

Rated service breaking capacity I <sub>cs</sub> AC according to IEC 60898-1	4.50 kA
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**Voltage**

Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Max. operating voltage	240 V
Rated operational voltage U <sub>e</sub>	240 - 240 V
Type voltage supply	AC

**Power**

Total power loss under I <sub>N</sub>	9.30 W
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**Frequency**

Frequency	60 - 60 Hz
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**Use conditions**

Max. Altitude	2000 m
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**Installation, mounting**

Nominal tightening torque down terminal	2.10 - 2.10 Nm
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**Installation, mounting**

Nominal tightening torque top terminal	2.10 - 2.10 Nm
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**Use conditions**

Class of energy limitation I <sup>2</sup> t	3
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**Endurance**

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

**Connection**

Cross-section flexible conductor	1 - 16 mm <sup>2</sup>
Cross-section rigid conductor	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Installation, mounting**

Nominal tightening torque	2.10 - 2.10 Nm
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**Capacity**

Number of modules	2
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**Installation, mounting**

Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

**Dimensions**

Height	83 mm
Width	35 mm
Depth	68 mm

**Use conditions**

Operating temperature	-25 - 40 °C
Storage/transport temperature	-25 - 70 °C

**Connection**

Cross-section of input and output with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input and output with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates

**Sustainability**

RoHS conform	Yes
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