



AFM440C

**RCBO 4P 6kA B-40A 300mA A Class**

**Technical Features**

**Architecture**

Type of pole	4P
Number of protected poles	4
Curve	B

**Electric current**

Rated current	40 A
Rated residual operating current I <sub>dn</sub>	300 mA
Rated current -25°C	49.80 A
Rated current at -20°C	49 A
Rated current -15°C	48.20 A
Rated current -10°C	47.30 A
Rated current -5°C	46.50 A
Rated current at 0°C	45.60 A
Rated current 5°C	44.70 A
Rated current 10°C	43.80 A
Rated current 15°C	42.90 A
Rated current at 20°C	42 A
Rated current 25°C	41 A
Rated current 30°C	40 A
Rated current 35°C	38.90 A
Rated current at 40°C	37.70 A
Rated current at 45°C	36.50 A
Rated current at 50°C	35.20 A
Rated current 55°C	33.90 A
Rated current 60°C	32.60 A
Correction factor of rating current for 2 devices placed side by side	0.80
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 I <sub>cn</sub> AC according to IEC 60898-1	6 kA
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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	6 kA
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**Voltage**

Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Rated operational voltage U <sub>e</sub>	230 - 400 V
Overvoltage category according to IEC 60947-1	3
Type voltage supply	AC
Dielectric strength value of power frequency	2 kV

**Power**

Total power loss under I <sub>N</sub>	17.70 W
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**Frequency**

Frequency	50 - 50 Hz
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**Use conditions**

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

Nominal tightening torque down terminal	2 - 2 Nm
Nominal tightening torque top terminal	2 - 2 Nm

**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	4000

**Connection**

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>

**Capacity**

Number of modules	4
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**Installation, mounting**

Type of bottom connection for modular devices	biconnect
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**Dimensions**

Height	84 mm
Width	71 mm
Depth	70 mm

**Use conditions**

Operating temperature	-25 - 40 °C
Storage/transport temperature	-55 - 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
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**Sustainability**

RoHS conform	Yes
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