



ARC590U

### MCB with dangerous arc detection 1P+N 10kA C-40A 2M

#### Technical Features

##### Electric current

Rated current	40 A
Rated current -25°C	46.88 A
Rated current at -20°C	46.26 A
Rated current -15°C	45.63 A
Rated current -10°C	45.01 A
Rated current -5°C	44.38 A
Rated current at 0°C	43.76 A
Rated current 5°C	43.14 A
Rated current 10°C	42.51 A
Rated current 15°C	41.89 A
Rated current at 20°C	41.26 A
Rated current 25°C	40.64 A
Rated current 30°C	40 A
Rated current 35°C	39.40 A
Rated current at 40°C	38.78 A
Rated current at 45°C	38.16 A
Rated current at 50°C	37.53 A
Rated current 55°C	36.88 A
Rated current 60°C	36.23 A

##### Architecture

Curve	C
Type of pole	1P+N

##### Main electrical attributes

Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1	10 kA
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##### Installation, mounting

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

##### Voltage

Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Rated operational voltage U <sub>e</sub>	230 - 230 V

##### Power

Total power loss under I <sub>N</sub>	11.98 W
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##### Use conditions

Class of energy limitation I <sup>2</sup> t	3
Operating temperature	-25 - 60 °C
Storage/transport temperature	-40 - 70 °C

##### Endurance

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

##### Installation, mounting

Nominal tightening torque	2 - 2 Nm
Type of bottom connection for modular devices	biconnect
Type of top connection for modular devices	Screw terminal

##### Capacity

Number of modules	2
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**Dimensions**

Height	85 mm
Width	35.50 mm
Depth	70 mm

**Frequency**

Frequency	50 - 50 Hz
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**Sustainability**

RoHS conform	Yes
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