



ARF970D

**RCBO with dangerous arc detection 20A C curve 6kA Type A 30mA**

**Technical properties**

**Electric current**

Rated current	20 A
Rated current -25°C	24.80 A
Rated current at -20°C	24.36 A
Rated current -15°C	23.92 A
Rated current -10°C	23.47 A
Rated current -5°C	23.04 A
Rated current at 0°C	22.60 A
Rated current 5°C	22.16 A
Rated current 10°C	21.73 A
Rated current 15°C	21.29 A
Rated current at 20°C	20.85 A
Rated current 25°C	20.41 A
Rated current 30°C	20 A
Rated current 35°C	19.53 A
Rated current at 40°C	19.10 A
Rated current at 45°C	18.66 A
Rated current at 50°C	18.20 A
Rated current 55°C	17.78 A
Rated current 60°C	17.34 A
Rated current 65°C	16.90 A
Rated current 70°C	16.46 A
Rated short-circuit breaking capacity $I_{cn}$ under 230 V AC according to IEC 61009-1	6 kA
Breaking and opening capacity $I_{dm}$	6 kA
Rated residual operating current $I_{dn}$	30 mA

**Architecture**

Curve	C
Type of pole	1P+N

**Installation, mounting**

Nominal tightening torque down terminal	2 - 2 Nm
Nominal tightening torque	2.10 - 2.10 Nm
Type of bottom connection for modular devices	biconnect, quickbusbar
Type of top connection for modular devices	quickconnect

**Main electrical attributes**

Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1	6 kA
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**Safety**

Residual current type	A
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**Voltage**

Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse withstand voltage U <sub>imp</sub>	4,000 V
Rated operational voltage U <sub>e</sub>	230 - 230 V

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**Power**

Total power loss under I <sub>N</sub>	6.08 W
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**Use conditions**

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

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**Endurance**

Number of mechanical operations	4,000
Electric endurance in number of cycles	2,000

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**Capacity**

Number of modules	3
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**Dimensions**

Height	83 mm
Width	53.20 mm
Depth	70 mm

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**Frequency**

Frequency	50 - 50 Hz
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