



HDA020Z

**Moulded Case Circuit Breaker X160 3P 18kA 20A**

**Technical Features**

**Electric current**

Rated current	20 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	4 kA
Rated current 10°C according to IEC 60947	24.90 A
Rated current 15°C according to IEC 60947	24.40 A
Rated current 20°C according to IEC 60947	23.80 A
Rated current 25°C according to IEC 60947	23.20 A
Rated current 30°C according to IEC 60947	22.60 A
Rated current at 35°C according to IEC 60947	22 A
Rated current at 40°C according to IEC 60947	21.30 A
Rated current 45°C according to IEC 60947	20.60 A
Rated current 50°C according to IEC 60947	20 A
Rated current 55°C according to IEC 60947	19.20 A
Rated current at 60°C according to IEC 60947	18.50 A
Rated current 65°C according to IEC 60947	17.70 A
Rated current 70°C according to IEC 60947	16.90 A

**Architecture**

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in

**Tripping**

Response time when opening	10 ms
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**Frequency**

Frequency	50 - 60 Hz
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**Voltage**

Rated impulse withstand voltage U <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	690 V
Rated operational voltage U <sub>e</sub>	220 - 415 V

**Functions**

Trip unit	TM F/F
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**Power**

Total power loss under I <sub>N</sub>	8.70 W
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**Endurance**

Electric endurance in number of cycles	10000
Number of mechanical operations	20000

**Safety**

Ingress Protection (IP) class	IP4X
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**Connection**

Cross-section flexible conductor	4 - 70 mm <sup>2</sup>
Cross-section rigid conductor	4 - 95 mm <sup>2</sup>

**Installation, mounting**

Nominal tightening torque	6 - 6 Nm
Mounting-/Connection Position	Front

**Connectivity**

Type of connection	Screw terminal
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**Settings**

Thermal protection knob setting xIN	1
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Adjustment range short-term delayed short-circuit release	0 - 0 A

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**Compatibility**

Suitable for DIN Rail	No
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**Main electrical attributes**

Magnetic protection trip time	0 - 0 ms
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