



HMS080DC

**Moulded Case Circuit Breaker h3+ P160 TM ADJ 3P3D 80A 50kA CTC**

**Technical Features**

**Electric current**

Rated current	80 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 660 V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	102.30 A
Rated current 15°C according to IEC 60947	99.80 A
Rated current 20°C according to IEC 60947	97.20 A
Rated current 25°C according to IEC 60947	94.60 A
Rated current 30°C according to IEC 60947	91.80 A
Rated current at 35°C according to IEC 60947	89 A
Rated current at 40°C according to IEC 60947	86.10 A
Rated current 45°C according to IEC 60947	83.10 A
Rated current 50°C according to IEC 60947	80 A
Rated current 55°C according to IEC 60947	76.80 A
Rated current at 60°C according to IEC 60947	73.40 A
Rated current 65°C according to IEC 60947	69.80 A
Rated current 70°C according to IEC 60947	66.10 A

**Architecture**

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

**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>	800 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

**Functions**

Trip unit	TM A/A
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**Power**

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

Electric endurance in number of cycles	10000
Number of mechanical operations	40000

**Safety**

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

Cross-section flexible conductor	6 - 70 mm <sup>2</sup>
Cross-section rigid conductor	6 - 95 mm <sup>2</sup>

**Connectivity**

Type of connection	Screw terminal
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**Cover, door**

Interlockable	Yes
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**Settings**

Thermal protection knob setting xIN	0.63 0.8 1
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**Cable**

Cable material	Copper
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**Compatibility**

Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes

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**Dimensions**

Dimensions	130 x 90 mm
Height	130 mm
Width	90 mm
Depth	97 mm

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**Installation, mounting**

Mounting-/Connection Position	Front
Nominal tightening torque	6 - 6 Nm
Nominal tightening torque down terminal	6 - 6 Nm
Nominal tightening torque top terminal	6 - 6 Nm

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**Electrical protection**

Instantaneous protection (li): dial setting coefficient	6 8 10 12
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**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes

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