



HMS080DR

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

Technical Features

Electric current

Rated current	80 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 660 V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I _{cu} 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 _{imp}	8000 V
Rated insulation voltage U _i	800 V
Rated operational voltage U _e	220 - 690 V

Functions

Trip unit	TM A/A
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Power

Total power loss under I _N	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 ²
Cross-section rigid conductor	6 - 95 mm ²

Cover, door

Interlockable	Yes
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Settings

Thermal protection knob setting xI _N	0.63
	0.8
	1

Product Datasheet

HMS080DR

Cable	
Cable material	Copper Aluminium
Compatibility	
Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes
Dimensions	
Dimensions	130 x 90 mm
Height	130 mm
Width	90 mm
Depth	97 mm
Installation, mounting	
Mounting-/Connection Position	Front
Nominal tightening torque	6 - 6 Nm
Electrical protection	
Instantaneous protection (li): dial setting coefficient	6 8 10 12
Sustainability	
REACH-SVHC free	Yes
RoHS conform	Yes