Product Datasheet
HMT050DR



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Moulded Case Circuit Breaker h3+ P250 TM ADJ 3P3D 50A 50kA FTC

Technical Features

Electric current	
Rated current IN	50 A
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	65 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 660 V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	6 kA
Rated current at 10°C according to IEC 60947	63.10 A
Rated current at 15°C according to IEC 60947	61.60 A
Rated current at 20°C according to IEC 60947	60.10 A
Rated current at 25°C according to IEC 60947	58.50 A
Rated current at 30°C according to IEC 60947	56.90 A
Rated current at 35°C according to IEC 60947	55.30 A
Rated current at 40°C according to IEC 60947	53.60 A
Rated current at 45°C according to IEC 60947	51.80 A
Rated current at 50°C according to IEC 60947	50 A
Rated current at 55°C according to IEC 60947	48.10 A
Rated current at 60°C according to IEC 60947	46.20 A
Rated current at 65°C according to IEC 60947	44.10 A
Rated current at 70°C according to IEC 60947	42 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
Voltage	
Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V
Functions	
Trip unit	TM A/A
Power	
Power dissipation at IN	15 W
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	40000
Safety	
Ingress Protection (IP) class	IP4X
Connection	
Cross-section flexible conductor	35 - 150 mm^2
Cross-section rigid conductor	35 - 185 mm^2
Cover, door	
Interlockable	Yes
Settings	
Thermal protection knob setting xIN	0.63 0.8 1

Cable

Cable material	Copper Aluminium

Compatibility

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

Dimensions

Dimensions	165 x 105 mm
Height	165 mm
Width	105 mm
Depth	97 mm
Downstream busbar: width, height, diameter screw (max.)	4 mm 8.5 mm 25 mm
Top stream busbar: width, height, diameter screw (max.)	4 mm 8.5 mm 25 mm

Installation, mounting

Mounting-/Connection Position	Front
Nominal tightening torque	12 - 12 Nm
Nominal tightening torque down terminal	12 - 12 Nm
Nominal tightening torque top terminal	12 - 12 Nm

Electrical protection

Instantaneous protection (Ii): dial setting coefficient	6 8 10 13

Sustainability

REACh-SVHC free	Yes
RoHS conform	Yes