Product Datasheet
HMT040NR

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Moulded Case Circuit Breaker h3+ P250 Energy 3P3D 40A 50kA FTC

Technical Features

Electric current	
Rated current	40 A
Architecture	
Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral
Electric current	
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 ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity Ics under 220 V AC according to 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 240 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	40 A
Rated current 15°C according to IEC 60947	40 A
Rated current 20°C according to IEC 60947	40 A
Rated current 25°C according to IEC 60947	40 A
Rated current 30°C according to IEC 60947	40 A
Rated current at 35°C according to IEC 60947	40 A
Rated current at 40°C according to IEC 60947	40 A
Rated current 45°C according to IEC 60947	40 A
Rated current 50°C according to IEC 60947	40 A
Rated current 55°C according to IEC 60947	40 A
Rated current at 60°C according to IEC 60947	40 A
Rated current 65°C according to IEC 60947	40 A
Rated current 70°C according to IEC 60947	40 A
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
Power	
Total power loss under IN	1.14 W
Functions	
Trip unit	ENERGY
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	40000
Safety	
Ingress Protection (IP) class	IP4X
Installation, mounting	
Nominal tightening torque	12 - 12 Nm
Mounting-/Connection Position	Front

Connection	
Cross-section flexible conductor	35 - 150 mm²
Cross-section rigid conductor	35 - 185 mm²
Cover, door	
Interlockable	Yes
Cable	
Cable material	Copper Aluminium
Compatibility	
Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes
Dimensions	
Height	165 mm
Width	105 mm
Depth	97 mm
Settings	
Adjustment range short-term delayed short-circuit release	24 - 400 A
Electrical protection	
Long-time overload protection (ltd): delay (tr)	0.5 s 1.5 s 2.5 s 5 s 7.5 s 9 s 10 s 12 s 14 s 16 s
Short-time protection (std): current (lsd)	1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9 9.5 10

Electrical protection	
Short-time protection (std): delay (tsd)	50 ms 100 ms 200 ms 300 ms 400 ms
Instantaneous protection (Ii): dial setting coefficient	3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9 9.5 10 10.5 11 11.5 12 12.5 13 13.5 14 14.5 15