HMT040JR

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

Technical properties

Electric current

Rated current	40 A
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	65 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 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	50 kA
Breaking capacity on 1-pole for AC 230 V IEC 60947-2	2.50 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	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 70°C according to IEC 60947	40 A

Rated current 65°C according to IEC 60947	40 A

Architecture

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

Settings

Ir1 current dial setting	16 A, 18 A, 20 A, 22 A, 25 A, 28 A, 32 A, 34 A, 37 A, 40 A
Adjustment range short-term delayed short-circuit release	21.9 - 400.0 A

Frequency

Frequency	50 - 60 Hz

Installation, mounting

Nominal tightening torque	12 - 12 Nm
Mounting-/Connection Position	Front

Voltage

Rated impulse withstand voltage Uimp	8,000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

Functions

Trip unit	LSI

Power

Total power loss under IN	1.14 W
Power loss per pole at In	0.38 W

Endurance

Electric endurance in number of cycles	10,000
Number of mechanical operations	40,000

Equipment

Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0

Safety

Ingress Protection (IP) class	IP4X

Use conditions

Operating temperature	-25 - 70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3

Connection

Cross-section flexible conductor	35 - 150 mm²
Cross-section rigid conductor	35 - 185 mm²
Connector/plug type	Terminal

Cover, door

Interlockable	Yes

Cable

Cable material	Copper, Aluminium

Dimensions

Height	165 mm
Width	105 mm
Depth	97 mm

Controls and indicators

Motor drive integrated	No

Compatibility

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

Power supply

Position power supply	Bidirectional

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 (Isd)	1.5, 2, 3, 4, 5, 6, 7, 8, 10
Short-time protection (std): delay (tsd)	50 ms, 100 ms, 200 ms, 300 ms, 400 ms
Instantaneous protection (Ii): dial setting coefficient	3, 4, 5, 6, 7, 8, 10, 12, 15