



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 I _{cu} under 230 V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	65 kA
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 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 I _{cu} under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity I _{cs} under 220 V AC according to 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 240 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} 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

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
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Installation, mounting

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

Voltage

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

Functions

Trip unit	LSI
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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	10000
Number of mechanical operations	40000

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
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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 mm ²
Cross-section rigid conductor	35 - 185 mm ²
Connector/plug type	Terminal

Cover, door

Interlockable	Yes
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Cable

Cable material	Copper, Aluminium
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Dimensions

Height	165 mm
Width	105 mm
Depth	97 mm

Controls and indicators

Motor drive integrated	No
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Compatibility

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

Power supply

Position power supply	Bidirectional
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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 (li): dial setting coefficient	3, 4, 5, 6, 7, 8, 10, 12, 15