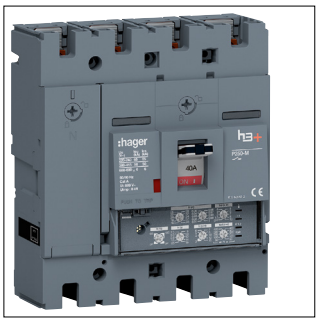
Product Datasheet
HMT041JR



HMT041JR

Moulded Case Circuit Breaker h3+ P250 LSI 4P4D N0-50-100% 40A 50kA FTC

Technical Features

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

Architecture

Number of poles	4
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Left

Electric current

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

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	8000 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	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
Use conditions	
Operating temperature	-25 - 70 °C
Connection	
Cross-section flexible conductor	35 - 150 mm^2
Cover, door	
Interlockable	Yes
Connection	
Cross-section rigid conductor	35 - 185 mm^2
Connector/plug type	Terminal
Cable	
Cable material	Copper Aluminium
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Dimensions	
Height	165 mm
Width	140 mm
Depth	97 mm
Controls and indicators	
Motor drive integrated	No
Compatibility	
Suitable for DIN Rail	No
Compatible with RDC AOB	Yes
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

Sustainability

RoHS conform	Yes