Product Datasheet
HMS160JC

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Moulded Case Circuit Breaker h3+ P160 LSI 3P3D 160A 50kA CTC

Technical Features

Electric current

Rated current	160 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	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 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	160 A
Rated current 15°C according to IEC 60947	160 A
Rated current 20°C according to IEC 60947	160 A
Rated current 25°C according to IEC 60947	160 A
Rated current 30°C according to IEC 60947	160 A
Rated current at 35°C according to IEC 60947	160 A
Rated current at 40°C according to IEC 60947	160 A
Rated current 45°C according to IEC 60947	160 A
Rated current 50°C according to IEC 60947	160 A
Rated current 55°C according to IEC 60947	160 A
Rated current at 60°C according to IEC 60947	159 A
Rated current 70°C according to IEC 60947	135 A
Rated current 65°C according to IEC 60947	145 A

Settings

Ir1 current dial setting	63 A 70 A 80 A 90 A 100 A 110 A 125 A 135 A 150 A 160 A
Adjustment range short-term delayed short-circuit release	86 - 1600 A

Frequency

Frequency	50 - 60 Hz

Installation, mounting

Nominal tightening torque	6 - 6 Nm
Mounting-/Connection Position	Front

Voltage

Rated impulse withstand voltage Uimp	8000 V

Voltage	
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V
Functions	
Trip unit	LSI
Power	
Total power loss under IN	27 W
Power loss per pole at In	9 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	6 - 70 mm^2
Cover, door	
Interlockable	Yes
Connection	
Cross-section rigid conductor	6 - 95 mm^2
Cable	
Cable material	Copper
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Dimensions	
Height	130 mm
Width	90 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
Connectivity	
Type of connection	Screw terminal

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 9 10 11

Sustainability

RoHS conform	Yes