Product Datasheet
HNF991H

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Moulded Case Circuit Breaker h1600 4P 50kA 1600A LSI

Technical Features

Electric current	
Rated current	1600 A
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	100 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	60 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	9 kA
Architecture	
Number of poles	4
Control/operation element	Toggle
Device construction type	Fixed built-in
Capacity	
Number of modules	16
Tripping	
Response time when opening	10 ms
Settings	
Magnetic protection knob setting xIN	2.5 5 10
Range of magnetic adjustment	8960 A 11200 A 14000 A 17920 A 19200 A 19200 A 19200 A
Thermal protection knob setting xIN	0.4 0.5 0.63 0.8 0.9 0.95 1
Adjustment range short-term delayed short-circuit release	0 - 0 A
Frequency	
Frequency	50 - 60 Hz
Installation, mounting	
Nominal tightening torque	65 - 65 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
Main electrical attributes	
Magnetic protection trip time	100 - 200 ms
Power	
Total power loss under IN	168.90 W
Power loss per pole at In	56.30 W

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Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
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	3x 240 mm^2
Cross-section rigid conductor	3x 240 mm^2
Connector/plug type	Terminal
Controls and indicators	
Motor drive integrated	No
Compatibility	
Suitable for DIN Rail	No
Power supply	
Position power supply	Bidirectional