



HNF990H

Moulded Case Circuit Breaker h1600 3P 50kA 1600A LSI

Technical characteristics

Electric current

Rated current	1,600 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	3
Control/operation element	Toggle
Device construction type	Fixed built-in

Capacity

Number of modules	12
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Tripping

Response time when opening	10 ms
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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
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Installation, mounting

Nominal tightening torque	65 - 65 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
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Functions

Trip unit	LSI
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Main electrical attributes

Magnetic protection trip time	100 - 200 ms
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Power

Total power loss under IN	168.90 W
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Power loss per pole at In	56.30 W
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Endurance

Electric endurance in number of cycles	1,000
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Number of mechanical operations	4,000
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Equipment

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

Ingress Protection (IP) class	IP4X
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Use conditions

Operating temperature	-25 - 70 °C
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Connection

Cross-section flexible conductor	3x 240 mm ²
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Cross-section rigid conductor	3x 240 mm ²
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Connector/plug type	Terminal
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Controls and indicators

Motor drive integrated	No
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Compatibility

Suitable for DIN Rail	No
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Power supply

Position power supply	Bidirectional
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