



HNF990H

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

Technical Features

Electric current

Rated current	1600 A
Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	100 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	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 xI _N	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 xI _N	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 U _{imp}	8000 V
Rated insulation voltage U _i	800 V
Rated operational voltage U _e	220 - 690 V

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 I _N	168.90 W
Power loss per pole at I _n	56.30 W

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
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Use conditions

Operating temperature	-25 - 70 °C
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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
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Compatibility

Suitable for DIN Rail	No
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Power supply

Position power supply	Bidirectional
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Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes