

Product Datasheet

HNS100GC



HNS100GC

Moulded Case Circuit Breaker h3+ P160 LSnl 3P3D 100A 40kA CTC

Technical Features

Electric current

Rated current	100 A
Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415 V AC IEC 60947-2	40 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 service breaking capacity I _{cs} under 230 V AC according to IEC 60947	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947	40 kA
Rated current 10°C according to IEC 60947	100 A
Rated current 15°C according to IEC 60947	100 A
Rated current 20°C according to IEC 60947	100 A
Rated current 25°C according to IEC 60947	100 A
Rated current 30°C according to IEC 60947	100 A
Rated current at 35°C according to IEC 60947	100 A
Rated current at 40°C according to IEC 60947	100 A
Rated current 45°C according to IEC 60947	100 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	100 A
Rated current at 60°C according to IEC 60947	100 A
Rated current 65°C according to IEC 60947	100 A
Rated current 70°C according to IEC 60947	100 A

Settings

Ir1 current dial setting	40 A
	45 A
	50 A
	57 A
	63 A
	72 A
	80 A
	87 A
	93 A
	100 A
Adjustment range short-term delayed short-circuit release	54.6 - 1000.0 A

Frequency

Frequency	50 - 60 Hz
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Installation, mounting

Nominal tightening torque	6 - 6 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	LSNI
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Power

Total power loss under I _N	10.50 W
Power loss per pole at I _N	3.50 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
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Use conditions

Operating temperature	-25 - 70 °C
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Connection

Cross-section flexible conductor	6 - 70 mm ²
Cross-section rigid conductor	6 - 95 mm ²

Cable

Cable material	Copper
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Dimensions

Height	130 mm
Width	90 mm
Depth	97 mm

Controls and indicators

Motor drive integrated	No
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Compatibility

Suitable for DIN Rail	No
Compatible with RDC AOB	No
Suitable for distribution board	Yes

Power supply

Position power supply	Bidirectional
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Electrical protection

Long-time overload protection (ltd): delay (tr)	5 s
Short-time protection (std): current (Isd)	1.5
	2
	3
	4
	5
	6
	7
	8
	10
Short-time protection (std): delay (tsd)	100 ms
Instantaneous protection (li): dial setting coefficient	15

Sustainability

RoHS conform	Yes
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