



HNS161GC

### Moulded Case Circuit Breaker h3+ P160 LSnl 4P4D N0-50-100% 160A 40kA CTC

#### Technical Features

##### Electric current

Rated current	160 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> 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	4
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Left

##### Electric current

Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	40 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 65°C according to IEC 60947	145 A
Rated current 70°C according to IEC 60947	135 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 U <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	800 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

##### Functions

Trip unit	LSNI
-----------	------

#### Power

Total power loss under I <sub>N</sub>	27 W
Power loss per pole at I <sub>N</sub>	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 <sup>2</sup>
Cross-section rigid conductor	6 - 95 mm <sup>2</sup>

#### Cable

Cable material	Copper
----------------	--------

#### Dimensions

Height	130 mm
Width	120 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
-----------------------	---------------

#### Electrical protection

Long-time overload protection (ltd): delay (tr)	5 s
Short-time protection (std): current (I <sub>sd</sub> )	1.5
	2
	3
	4
	5
	6
	7
	8
	10
Short-time protection (std): delay (tsd)	100 ms
Instantaneous protection (li): dial setting coefficient	11