



HMS100GC

### Moulded Case Circuit Breaker h3+ P160 LSnl 3P3D 100A 50kA CTC

#### Technical Features

##### Architecture

Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral
Number of poles	3

##### Cable

Cable material	Copper
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##### Compatibility

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

##### Connection

Cross-section flexible conductor	6 - 70 mm <sup>2</sup>
Cross-section rigid conductor	6 - 95 mm <sup>2</sup>

##### Controls and indicators

Motor drive integrated	No
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##### Dimensions

Depth	97 mm
Height	130 mm
Width	90 mm

##### Electrical protection

Instantaneous protection (li): dial setting coefficient	15
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

##### Electric current

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
Rated current	100 A
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 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 65°C according to IEC 60947	100 A
Rated current 70°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 at 60°C according to IEC 60947	100 A
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	65 kA

#### Electric current

Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	65 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

#### 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

#### Frequency

Frequency	50 - 60 Hz
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#### Functions

Trip unit	LSNI
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#### Installation, mounting

Mounting-/Connection Position	Front
Nominal tightening torque	6 - 6 Nm

#### Power

Power loss per pole at In	3.50 W
Total power loss under IN	10.50 W

#### Power supply

Position power supply	Bidirectional
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#### Safety

Ingress Protection (IP) class	IP4X
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#### Settings

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

#### Use conditions

Operating temperature	-25 - 70 °C
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#### Voltage

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

#### Sustainability

RoHS conform	Yes
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