



## HES101GC

## Moulded Case Circuit Breaker h3+ P160 LSnI 4P4D N0-50-100% 100A 70kA CTC

## **Technical properties**

Arc	h	it	:e	C	t	u	r	E
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Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/50/100%
Type of case	Fixed built-in
Functions	
Complete device with protection unit	Yes
Reversing switch	No
Version as main switch	Yes
Version as emergency stop installation	No
Version as safety switch	No
Version as maintenance-/service switch	Yes
Trip Unit	LSNI
Integrated earth fault protection	No
Concurrently switching N-neutral	Yes
Controls and indicators	
Motor drive integrated	No
Main electrical features	
Rated operational voltage Ue	220 / 690 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV
With under voltage release	No
Electric current	
Rated current	100 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Rated short-time withstand current Icw t=0.4S 220-240 V AC according IEC 60947-2	1.6 kA
Rated short-time withstand current Icw t=0.4S 380-415 V AC according IEC 60947-2	1.6 kA

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Breaking capacity on 1 pole for IT 400V NF 60947-2  2.5 kA  Breaking capacity on 1 pole for IT 415V NF 60947-2  2.5 kA  Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2  85 kA  Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2  85 kA  Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2  Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2  So kA  Power  Power  Total power loss under IN  10.5 W  Power loss per pole at In  3.5 W  Endurance		6 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2  2.5 kA  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated service breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Bethel ultimate short-circuit breakin		2.5 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Poimensions  Depth of installed product  Prequency  Frequency  Frequency  50 to 60 Hz  Power  Total power loss under IN  10.5 W  Power loss per pole at In  3.5 W  Endurance		2.5 kA
capacity Icu under 230V AC IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 70 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 70 kA Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 70 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA  Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm  Frequency Frequency Frequency Frequency Fower  Total power loss under IN 10.5 W Power Ioss per pole at In 3.5 W Endurance	9	2.5 kA
capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Binensions  Depth of installed product  Poimensions  Depth of installed product  120 mm  Frequency  Frequency  Footo 60 Hz  Power  Total power loss under IN  10.5 W  Endurance	Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
capacity Icu under 400V AC IEC 60947-2 70 kA  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 70 kA  Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 85 kA  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 85 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 6 kA   Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA   Dimensions  Depth of installed product 97 mm  Height of installed product 130 mm  Width of installed product 120 mm  Frequency  Frequency  Fower  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance		85 kA
capacity Icu under 415V AC IEC 60947-2 70 kA  Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 85 kA  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 85 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA  Poimensions  Depth of installed product 97 mm  Height of installed product 130 mm  Width of installed product 120 mm  Frequency  Frequency  Fower  Total power loss under IN 10.5 W  Endurance		70 kA
110-138V AC according IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 85 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA  Dimensions  Depth of installed product 97 mm  Height of installed product 130 mm  Width of installed product 120 mm  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance		70 kA
capacity Icu under 220V AC IEC 60947-2 85 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 70 kA  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA  Dimensions  Depth of installed product 97 mm  Height of installed product 130 mm  Width of installed product 120 mm  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance		85 kA
capacity Icu under 380V AC IEC 60947-2 70 kA  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA  Dimensions  Depth of installed product 97 mm  Height of installed product 130 mm  Width of installed product 120 mm  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance	3	85 kA
Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm  Frequency Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W Power loss per pole at In 3.5 W  Endurance		70 kA
Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm  Frequency Frequency 50 to 60 Hz  Power Total power loss under IN 10.5 W Power loss per pole at In 3.5 W  Endurance		6 kA
Height of installed product 130 mm Width of installed product 120 mm  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance	Dimensions	
Width of installed product 120 mm  Frequency  Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance	Depth of installed product	97 mm
Frequency  Frequency  50 to 60 Hz  Power  Total power loss under IN  10.5 W  Power loss per pole at In  3.5 W  Endurance	Height of installed product	130 mm
Frequency 50 to 60 Hz  Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance	Width of installed product	120 mm
Power  Total power loss under IN 10.5 W  Power loss per pole at In 3.5 W  Endurance	Frequency	
Total power loss under IN 10.5 W Power loss per pole at In 3.5 W Endurance	Frequency	50 to 60 Hz
Power loss per pole at In 3.5 W  Endurance	Power	
Endurance	Total power loss under IN	10.5 W
	Power loss per pole at In	3.5 W
	Endurance	
Electric endurance in number of cycles 10000	Electric endurance in number of cycles	10000

Number of mechanical operations	4000
Cover, door	
Interlockable	Ye
Installation, mounting	
Tightening torque	6Nr
DIN rail mounting with optional adaptator	Ye
Suitable for front mounting center	N
Suitable for front mounting	N
Suitable for ground mounting	Ye
Connection	
Connection cross-sect. flexible conductor	6 / 70mn
Connection cross-sect. rigid cable	6 / 95mm
Connection	Front connectio
Type of connection	with scre
Protection	
Instantaneous protection (Ii): type	fixe
Cable	
Cable Material	C
Equipment	
Number of auxiliary contacts as normally closed contact	
Number of auxiliary contacts as normally open contact	
Number of auxiliary contacts as change- over contact	
Motor drive optional	N
Can be accessorized	Ye
Use cases	
Category of use	
Use	
Vibrations and shocks withstand	IEC 68068-2-52 Test F
Standards	
Standard text	IEC 60947
Safety	
REACH conform	N
RoHS conform	Υe
Halogen free	N
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	
Altitude	2000 r

Air humidity protection

95%HR 55°C sev Kn (IEC 68-2-30/52)

temperatur

Temperature of calibration

50 °C