



HES041NC

## Moulded Case Circuit Breaker h3+ P160 Energy 4P4D N0-50-100% 40A 70kA CTC

## **Technical properties**

	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	ENERGY
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
Rated operational voltage Ue Type of supply voltage	
	AC
Type of supply voltage	AC
Type of supply voltage Frequency	AC 50/60 Hz
Type of supply voltage Frequency <b>Voltage</b>	AC 50/60 Hz 800 V
Type of supply voltage Frequency <b>Voltage</b> Rated insulation voltage	220 / 690 V AC 50/60 Hz 800 V 8 kV
Type of supply voltage Frequency <b>Voltage</b> Rated insulation voltage Rated impulse withstand voltage	AC 50/60 Hz 800 V 8 kV
Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release	AC 50/60 Hz 800 V 8 kV
Type of supply voltage Frequency Voltage Rated insulation voltage With under voltage release Electric current	AC 50/60 Hz 800 V 8 kV No 40 A
Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking	AC 50/60 Hz 800 V 8 kV No

Rated short-time withstand current Icw t=0.4S 660-690 V AC according IEC 60947-2	1.6 kA
Rating current 10°C according to IEC 60947	40 A
Rating current 15°C according to IEC 60947	40 A
Rating current 20°C according to IEC 60947	40 /
Rating current 25°C according to IEC 60947	40 A
Rating current 30°C according to IEC 60947	40 A
Rating current 35°C according to IEC 60947	40 A
Rating current 40°C according to IEC 60947	40 /
Rating current 45°C according to IEC 60947	40 /
Rating current 50°C according to IEC 60947	40 /
Rating current 55°C according to IEC 60947	40 /
Rating current 60°C according to IEC 60947	40 /
Rating current 65°C according to IEC 60947	40 /
Rating current 70°C according to IEC 60947	40 4
Rated service breaking capacity Ics under 660V AC according IEC 60947-2	6 k/
Breaking capacity on 1 pole for IT 230V NF 60947-2	2.5 k/
Breaking capacity on 1 pole for IT 400V NF 60947-2	2.5 k/
Breaking capacity on 1 pole for IT 415V NF 60947-2	2.5 k
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 ki
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 k/
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	70 k
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	70 k/
Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2	85 k/
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	85 k/
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	70 k/
Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2	6 k/
Dimensions	
Depth of installed product	97 mr
Height of installed product	130 mn
Width of installed product	120 mn
Frequency	
Frequency	50 to 60 H
Power	
Total power loss under IN	1.68 V
Power loss per pole at In	0.56 V
Endurance	
Electric endurance in number of cycles	1000

Electric endurance in number of cycles

Number of mechanical operations	4000
Cover, door	
Interlockable	Ye
Installation, mounting	
Tightening torque	6Ni
DIN rail mounting with optional adaptator	Ye
Suitable for front mounting center	Ν
Suitable for front mounting	Ν
Suitable for ground mounting	Ye
Connection	
Connection cross-sect. flexible conductor	6 / 70mm
Connection cross-sect. rigid cable	6 / 95mn
Connection	Front connectio
Type of connection	with scre
Protection	
Instantaneous protection (li): type	adjustab
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	Ν
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	Ν
RoHS conform	Ye
Halogen free	Ν
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	
Altitude	2000

Air humidity protection