

No



HES063DC

# Moulded Case Circuit Breaker h3+ P160 TM ADJ 3P3D 63A 70kA CTC

# **Technical characteristics**

Neutral position	without neutra
Number of protected poles	without neutra
Number of protected poles	3
Number of poles	3 F
Type of pole	3P3E
Type of case	Fixed built-ir
Functions	
Complete device with protection unit	Yes
Reversing switch	No
Version as main switch	Ye
Version as emergency stop installation	No
Version as safety switch	No
Version as maintenance-/service switch	Ye
Trip Unit	TM A/A

## **Controls and indicators**

Motor drive integrated

#### 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	63 A
Rated ultimate short-circuit breaking	
capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	87.1 A
Rating current 15°C according to IEC 60947	84.5 A
Rating current 20°C according to IEC 60947	81.7 A
Rating current 25°C according to IEC 60947	78.9 A

Rating current 30°C according to IEC 60947	76 A
Rating current 35°C according to IEC 60947	73 A
Rating current 40°C according to IEC 60947	69.8 A
Rating current 45°C according to IEC 60947	66.5 A
Rating current 50°C according to IEC 60947	63 A
Rating current 55°C according to IEC 60947	59.3 A
Rating current 60°C according to IEC 60947	55.4 A
Rating current 65°C according to IEC 60947	51.1 A
Rating current 70°C according to IEC 60947	46.5 A
Rated service breaking capacity Ics under 660V AC according IEC 60947-2	6 kA
Breaking capacity on 1 pole for IT 230V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 690V NF 60947-2	2.5 kA
Rated ultimate short-circuit breaking 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
Range of the thermal adjustment	40 / 50 / 63 A
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
Dimensions	
Depth of installed product	97 mm
Height of installed product Width of installed product	130 mm 
-	
Frequency	50 1 60 11
Frequency	50 to 60 Hz
Power	1 / 1 1
Power loss per pole at 0.63*In	1.43 W
Power loss per pole at 0.8*In	2.24 W
Total power loss at 0.63*In	4.3 W
Total nower loss at 0.9*12	
Total power loss at 0.8*In Total power loss under IN	6.72 W 10.5 W

Tripping

Endurance	
Electric endurance in number of cycles	10
Number of mechanical operations	40
Cover, door	
Interlockable	
Installation, mounting	
Tightening torque	(
DIN rail mounting with optional adaptator	
Suitable for front mounting center	
Suitable for front mounting	
Suitable for ground mounting	
Connection	
Connection cross-sect. flexible conductor	6 / 70r
Connection cross-sect. rigid cable	6 / 95r
Connection	Front connec
Type of connection	with so
Protection	
Instantaneous protection (Ii): type	f
Cable	
Cable Material	
Settings	
Range of the magnetic adjustment	378 / 504 / 630 / 7
Magnetic protection nob setting xIN	6 / 8 / 10
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	
Number of auxiliary contacts as change-	
Number of auxiliary contacts as change- over contact	
Number of auxiliary contacts as change- over contact Motor drive optional	
Number of auxiliary contacts as change- over contact Motor drive optional Can be accessorized <b>Use cases</b>	
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REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

Air humidity protection

95%HR 55°C sev Kn (IEC 68-2-30/52)

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Temperature of calibration

50 °C