



HMS040BC

## Moulded Case Circuit Breaker h3+ P160 MAG 3P3D 40A 50kA CTC

## **Technical properties**

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Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Fixing mode	fixing plate
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	MAG (ICB)
Integrated earth fault protection	No
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	40 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Rated service breaking capacity lcs 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	65 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	50 kA
Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	50 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	90 mm
Frances	
Frequency	50 to 60 Hz
Frequency	50 to 60 Hz
Power	
Total power loss under IN	27.9 W
Power loss per pole at In	9.3 W
Tripping	
Short-time delayed tripping	No
Endurance	
Electric endurance in number of cycles	10000
	10000
Number of mechanical operations	40000
Number of mechanical operations	40000
	40000
Number of mechanical operations  Cover, door  Interlockable	40000 Yes
Cover, door	
Cover, door Interlockable	
Cover, door Interlockable Installation, mounting	Yes
Cover, door Interlockable Installation, mounting Tightening torque	Yes 6Nm
Cover, door Interlockable Installation, mounting Tightening torque DIN rail mounting with optional adaptator	Yes 6Nm Yes
Cover, door Interlockable Installation, mounting Tightening torque DIN rail mounting with optional adaptator Suitable for front mounting center	Yes 6Nm Yes No
Cover, door Interlockable Installation, mounting Tightening torque DIN rail mounting with optional adaptator Suitable for front mounting center Suitable for front mounting	Yes  6Nm  Yes  No
Cover, door Interlockable Installation, mounting Tightening torque DIN rail mounting with optional adaptator Suitable for front mounting center Suitable for ground mounting Suitable for ground mounting	Yes  6Nm  Yes  No

Connection cross-sect. rigid cable	6 / 95mm²
Connection	Front connection
Type of connection	with screw
Protection	
Instantaneous protection (Ii): type	fixed
Cable	
Cable Material	Cu
Settings	
Range of the magnetic adjustment	240 / 320 / 400 / 480 A
Magnetic protection nob setting xIN	6 / 8 / 10 / 12
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change- over contact	0
Motor drive optional	No
Can be accessorized	Yes
Use cases	
Category of use	А
Use	
Vibrations and shocks withstand	IEC 68068-2-52 Test FC
Standards	
Standard text	IEC 60947-2
European directive WEEE	concerned
Safety	
Protection index IP	IP4X
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)