# Product Data Sheet HMS100BC





HMS100BC

### MCCB h3+ P160 MAG 3x100A 50kA

Product Datasheet

Architecture	
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
Version as switch disconnector compact	yes
Isolation suitability	yes
Sealable	yes

### Compatibility

Compatible with DIN rail mounting	no
Compatible with RCD AOB	no

### **Controls and indicators**

Motor drive integrated	no
With Contact position indicator	yes
With fault indicator	yes

### Connectivity

ACP connection (communication)	no
CIP connection (communication)	no
MIP connection (communication)	no
OAC connection (communication)	no
PTA connection (communication)	no
ZSI connection (communication)	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 110-138V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 380V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 400V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 415V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 660V AC according IEC 60947-2	6 kA
Rated service breaking capacity Ics under 690V 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 short-circuit making capacity Icm under 110-138V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 220V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 230V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 240V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 380V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 400V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 415V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 660V AC according IEC 60947-2	9 kA
Rated short-circuit making capacity Icm under 690V AC according IEC 60947-2	9 kA
Rated service breaking capacity lcs 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

### Frequency 50 to 60 Hz Frequency Power Total power loss under IN 20,1 W Power loss per pole at In 6,7 W Tripping Short-time delayed tripping no Endurance Electric endurance in number of cycles 10000 Number of mechanical operations 40000 Cover, door Interlockable yes Dimensions Depth of installed product 97 mm 130 mm Height of installed product Width of installed product 90 mm Critical distance switching emission/earthed part 50 mm bottom Critical distance switching emission/earthed part 50 mm left Critical distance switching emission/earthed part 50 mm right Critical distance switching emission/earthed part 50 mm top Critical distance switching emission/live part 75 mm Installation, mounting **Tightening torque** 6Nm DIN rail mounting with optional adaptator yes Suitable for front mounting center no Suitable for distribution board installation yes Suitable for front mounting no Suitable for ground mounting yes Suitable for intermediate mounting no Connection 6 / 70mm<sup>2</sup> Connection cross-sect. flexible conductor 6 / 95mm<sup>2</sup> Connection cross-sect. rigid cable Connection Front connection Type of connection with screw

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IP4X

### Protection

no	Earth fault protection (GF)
yes	Instantaneous protection (li)
no	Instantaneous protection (li): deactivatable
fixed	Instantaneous protection (li): type
li x In	Instantaneous protection (Ii): reference for current setting
6/8/10/12	Instantaneous protection (li): dial setting coefficient
no	Long Time overload protection (ltd)
fixed	Long Time protection (ltd): delay type
no	Neutral overload protection (NP)
no	Pre-Trip Alarm (PTA)
no	Short time protection (std)
no	Short time protection by I <sup>2</sup> t curve

### Cable

Cable Material	Cu
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## Settings

Range of the magnetic adjustment	600 / 800 / 1000 / 1200 A
Magnetic protection nob setting xIN	6/8/10/12
Time adjustable	no
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### Equipment

Motor drive optional	no
Can be accessorized	yes
Accept terminal cover	yes
With optional voltage release	yes

### Use cases

Category of use

# Use

Vibrations and shocks withstand	IEC 68068-2-52 Test FC

### Standards

Standard text	IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5
Safaty	

# Safety

Protection index IP

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)