



### HMS126BC

### MCCB h3+ P160 MAG 4x125A 50kA

**Product Datasheet** 

### Architecture

Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D
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
Concurrently switching N-neutral	yes
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	125 A
Rated ultimate short-circuit breaking capacity lcu 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



Power loss under IN 32,1 W Power loss per pole at In 10,7 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 Height of installed product 120 mm Width of installed product 120 mm Width of installed product 150 mm Height of installed product 50 mm Height of installed instance switching emission/earthed part 50 mm Height of installed instance switching emission/earthed part 50 mm Height 50 mm	Frequency	
Total power loss under IN 32,1 W Power loss per pole at In 10,7 W Tripping  Short-time delayed tripping no Peturone delayed no Petur	Frequency	50 to 60 Hz
Power loss per pole at In 10,7 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 Height of installed product 120 mm Uidth of installed product 120 mm Uidth of installed product 50 mm bottom  Critical distance switching emission/earthed part lottical distance switching emission/earthed part toght Critical distance switching emission/earthed part toght Critical distance switching emission/earthed part lottical distance switchin	Power	
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 Height of installed product 130 mm Width of installed product 120 mm Critical distance switching emission/earthed part bottom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part top Critical distance switching emission/earthed part top Critical distance switching emission/earthed part top Critical distance switching emission/level part 75 mm  Installation, mounting Tightening torque 6Nm DIN rail mounting with optional adaptator yes Suitable for front mounting center no Suitable for fort mounting center no Suitable for fort mounting yes Suitable for ground mounting Suitable for ground mounting Suitable for ground mounting Suitable for intermediate mounting No Connection Connection Connection cross-sect. flexible conductor 6.770mm² Connection cross-sect. rigid cable 6.995mm² Connection Front connection	Total power loss under IN	32,1 W
Endurance  Electric endurance in number of cycles 10000 Number of mechanical operations 40000  Cover, door  Interlockable yes  Dimensions  Depth of installed product 130 mm Width of installed product 120 mm Width of installed product 120 mm Critical distance switching emission/earthed part before  Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/left part Cri	Power loss per pole at In	10,7 W
Endurance  Electric endurance in number of cycles 10000 Number of mechanical operations 40000  Cover, door  Interlockable yes  Dimensions  Depth of installed product 130 mm Width of installed product 120 mm Width of installed product 120 mm Critical distance switching emission/earthed part before  Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/left part Cri		
Electric endurance in number of cycles 10000 Number of mechanical operations 40000  Cover, door Interlockable yes  Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm Critical distance switching emission/earthed part bottom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/earthed part Top Critical distance switching emission/earthed part Top Critical distance switching emission/ive part  Installation, mounting Tightening torque Form DIN rail mounting with optional adaptator yes Suitable for front mounting center no Suitable for front mounting no Suitable for ground mounting no Connection Connection Connection Connection cross-sect. flexible conductor 6 / 70mm² Connection Front connection		
Electric endurance in number of cycles  Number of mechanical operations  Cover, door  Interlockable  Peth of installed product  Height of installed product  Height of installed product  Tritical distance switching emission/earthed part bottom  Critical distance switching emission/earthed part inght  Critical distance switching emission/live part  Type  Tightening torque  6Nm  DIN rail mounting  Tightening torque  6Nm  DIN rail mounting with optional adaptator  yes  Suitable for front mounting center  no  Suitable for front mounting center  suitable for ground mounting  pes  Suitable for ground mounting  pes  Suitable for ground mounting  pes  Suitable for intermediate mounting  no  Connection  Connection  Connection cross-sect. flexible conductor  6 / 70mm²  Connection cross-sect. rigid cable  6 / 95mm²  Connection  Front connection	Short-time delayed tripping	no
Number of mechanical operations  Cover, door  Interlockable yes  Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm Critical distance switching emission/earthed part bettom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/live part 75 mm  Installation, mounting  Installation, mounting  Tightening torque 6Nm DIN rail mounting with optional adaptator yes Suitable for front mounting center no Suitable for front mounting center no Suitable for front mounting Suitable for front mounting Suitable for ground mounting suitable for ground mounting no Connection  Connection  Connection  Connection Front connection Front connection	Endurance	
Cover, door Interlockable yes  Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm Critical distance switching emission/earthed part bottom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part roght Critical distance switching emission/earthed part roght Critical distance switching emission/earthed part roght Critical distance switching emission/live 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 fort mounting Suitable for fort mounting Suitable for front mounting Top Suitable for intermediate mounting Ton Connection Connection Connection Front connection Front connection	Electric endurance in number of cycles	10000
Interlockable yes  Dimensions  Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 120 mm Critical distance switching emission/earthed part bottom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part so mm Tright Critical distance switching emission/earthed part top Critical distance switching emission/live part 50 mm Top  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 ground mounting yes Suitable for ground mounting yes Suitable for intermediate mounting no Connection  Connection Connection Front connection Front connection	Number of mechanical operations	40000
Dimensions         Depth of installed product       97 mm         Height of installed product       130 mm         Width of installed product       120 mm         Critical distance switching emission/earthed part bottom       50 mm         Critical distance switching emission/earthed part left       50 mm         Critical distance switching emission/earthed part right       50 mm         Critical distance switching emission/earthed part top       50 mm         Critical distance switching emission/live part       75 mm         Installation, mounting       75 mm         Installation, mounting with optional adaptator       yes         Suitable for front mounting center       no         Suitable for distribution board installation       yes         Suitable for ground mounting       yes         Suitable for ground mounting       yes         Suitable for intermediate mounting       no         Connection       6 / 70mm²         Connection cross-sect. flexible conductor       6 / 95mm²         Connection cross-sect. rigid cable       6 / 95mm²         Connection       Front connection	Cover, door	
Dimensions  Depth of installed product 97 mm Height of installed product 120 mm Width of installed product 120 mm Width of installed product 50 mm Unitial distance switching emission/earthed part 50 mm bottom  Critical distance switching emission/earthed part 16ft  Critical distance switching emission/earthed part 17 mm Unitial distance switching emission/live part 75 mm Unitial distance switching emission/live part 75 mm Unitial mounting  Tightening torque 6Nm DIN rail mounting with optional adaptator yes Suitable for front mounting enter no Suitable for distribution board installation yes Suitable for ground mounting yes Suitable for intermediate mounting no Connection  Connection  Connection  Connection Front connection	·	yes
Depth of installed product     97 mm       Height of installed product     130 mm       Width of installed product     120 mm       Critical distance switching emission/earthed part bottom     50 mm       Critical distance switching emission/earthed part left     50 mm       Critical distance switching emission/earthed part right     50 mm       Critical distance switching emission/earthed part top     50 mm       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 ground mounting     no       Suitable for ground mounting     yes       Suitable for intermediate mounting     no       Connection     6 / 70 mm²       Connection cross-sect. flexible conductor     6 / 95 mm²       Connection cross-sect. rigid cable     6 / 95 mm²       Connection     Front connection		,
Height of installed product  Width of installed product  Critical distance switching emission/earthed part bottom  Critical distance switching emission/earthed part left  Critical distance switching emission/earthed part left  Critical distance switching emission/earthed part right  Critical distance switching emission/earthed part top  Critical distance switching emission/earthed part top  Critical distance switching emission/live part  Installation, mounting  Tightening torque  Form of the first mounting with optional adaptator  Suitable for front mounting center  Suitable for distribution board installation  Suitable for ground mounting  Suitable for ground mounting  Suitable for intermediate mounting  Connection  Connection  Connection  Front connection  Front connection	Dimensions	
Width of installed product     120 mm       Critical distance switching emission/earthed part bottom     50 mm       Critical distance switching emission/earthed part left     50 mm       Critical distance switching emission/earthed part right     50 mm       Critical distance switching emission/earthed part top     50 mm       Critical distance switching emission/live part     75 mm       Installation, mounting     75 mm       Installation, mounting     6Nm       DIN rail mounting with optional adaptator     yes       Suitable for front mounting center     no       Suitable for distribution board installation     yes       Suitable for ground mounting     no       Suitable for intermediate mounting     no       Connection     6 / 70mm²       Connection cross-sect. flexible conductor     6 / 95mm²       Connection cross-sect. rigid cable     6 / 95mm²       Connection     Front connection	Depth of installed product	97 mm
Critical distance switching emission/earthed part bottom  Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/earthed part top Critical distance switching emission/leverathed part top Critical distance switching emission/live part  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 ground mounting no Suitable for ground mounting yes Suitable for intermediate mounting no  Connection  Connection  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Height of installed product	130 mm
bottom Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right Critical distance switching emission/earthed part right Critical distance switching emission/earthed part top Critical distance switching emission/live part  Critical distance switching emission/live part  Installation, mounting  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 ground mounting no Suitable for ground mounting yes Suitable for intermediate mounting no Connection  Connection  Connection Front connection Front connection	Width of installed product	120 mm
left       Critical distance switching emission/earthed part right     50 mm       Critical distance switching emission/learthed part top     50 mm       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 ground mounting     no       Suitable for ground mounting     yes       Suitable for intermediate mounting     no       Connection     6 / 70mm²       Connection cross-sect. flexible conductor     6 / 95mm²       Connection cross-sect. rigid cable     6 / 95mm²       Connection     Front connection		50 mm
right Critical distance switching emission/earthed part 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 ground mounting no Suitable for ground mounting yes Suitable for intermediate mounting no Connection  Connection Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		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 ground mounting yes Suitable for ground mounting no Suitable for intermediate mounting yes Suitable for intermediate mounting no  Connection  Connection Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		50 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 no Suitable for ground mounting no Connection  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		50 mm
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  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Critical distance switching emission/live part	75 mm
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  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Installation, mounting	
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  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		6Nm
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  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		yes
Suitable for front mounting no Suitable for ground mounting yes Suitable for intermediate mounting no  Connection  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Suitable for front mounting center	no
Suitable for ground mounting yes Suitable for intermediate mounting no  Connection  Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Suitable for distribution board installation	yes
Connection       6 / 70mm²         Connection cross-sect. flexible conductor       6 / 70mm²         Connection cross-sect. rigid cable       6 / 95mm²         Connection       Front connection	Suitable for front mounting	no
Connection       Connection cross-sect. flexible conductor     6 / 70mm²       Connection cross-sect. rigid cable     6 / 95mm²       Connection     Front connection	Suitable for ground mounting	yes
Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Suitable for intermediate mounting	no
Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection	Connection	
Connection Front connection	Connection cross-sect. flexible conductor	6 / 70mm²
	Connection cross-sect. rigid cable	6 / 95mm²
Type of connection with screw	Connection	Front connection
	Type of connection	with screw



Protection	
Earth fault protection (GF)	no
Instantaneous protection (Ii)	yes
Instantaneous protection (Ii): deactivatable	no
Instantaneous protection (Ii): type	fixed
Instantaneous protection (Ii): reference for current setting	li x ln
Instantaneous protection (li): dial setting coefficient	6/8/10/12
Long Time overload protection (ltd)	no
Long Time protection (ltd): delay type	fixed
Neutral overload protection (NP)	yes
Neutral overload protection (NP): current (IN)	100 %
Pre-Trip Alarm (PTA)	no
Short time protection (std)	no
Short time protection by I <sup>2</sup> t curve	no
Cable	
Cable Material	Cu
Settings	
Range of the magnetic adjustment	750 / 1000 / 1250 / 1500 A
Magnetic protection nob setting xIN	6/8/10/12
Time adjustable	no
Equipment	
Motor drive optional	no
Can be accessorized	yes
Accept terminal cover	yes
With optional voltage release	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
Product categories described in the W3E directive 2012/19/EU	Category 5
Safety	
Protection index IP	IP4X



### 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)