



HES125BC

MCCB h3+ P160 MAG 3x125A 70kA

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

Rated operational voltage Ue	220 / 690 V
Type of supply voltage	AC
Frequency	50/60 Hz

ZSI connection (communication)

Main electrical features



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 Icu under 110-138V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity lcu under 690V AC IEC 60947-2	6 kA
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	85 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	85 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	85 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	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2	70 kA
Rated short-circuit making capacity lcm under 110-138V AC according IEC 60947-2	187 kA
Rated short-circuit making capacity Icm under 220V AC according IEC 60947-2	187 kA
Rated short-circuit making capacity Icm under 230V AC according IEC 60947-2	187 kA
Rated short-circuit making capacity Icm under 240V AC according IEC 60947-2	187 kA
Rated short-circuit making capacity Icm under 380V AC according IEC 60947-2	154 kA
Rated short-circuit making capacity Icm under 400V AC according IEC 60947-2	154 kA
Rated short-circuit making capacity Icm under 415V AC according IEC 60947-2	154 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 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



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 99 mm Height of installed product 130 mm Width of installed product 99 mm Critical distance switching emission/earthed part ingith to Critical distance switching emission/earthed part ingith to Product 150 mm Interlockable 150	Frequency	
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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 130 mm Width of installed product 99 mm bottom Critical distance switching emission/earthed part bottom Critical distance switching emission/earthed part toght critical distance switching emission/earthed part toght (Critical dis	Power	
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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 90 mm Width of installed product 90 mm Critical distance switching emission/earthed part beful eft 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/learthed part Enstallation, mounting Tightening torque 6Nm DIN rail mounting with optional adaptator yes Suitable for front mounting center no Suitable for front mounting enter no Suitable for ground mounting yes Suitable for ground mounting no Connection Connection Connection cross-sect. flexible conductor 6 / 70mm² Connection cross-sect. rigid cable 6 / 95mm² Connection Front connection		
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Interlockable yes Dimensions Depth of installed product 97 mm Height of installed product 130 mm Width of installed product 90 mm Critical distance switching emission/earthed part left Critical distance switching emission/earthed part left Critical distance switching emission/earthed part right 50 mm Critical distance switching emission/earthed part right 50 mm Critical distance switching emission/earthed part right 50 mm Critical distance switching emission/earthed part top Critical distance switching emission/live part 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 ground mounting yes Suitable for ground mounting yes Suitable for intermediate mounting no Connection Connection Connection Front connection Front connection	Cover. door	
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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
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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	
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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 Front connection	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 (li): reference for current setting	li x In
Instantaneous protection (Ii): dial setting coefficient	6/8/10/12
Long Time overload protection (ltd)	no
Long Time protection (ltd): delay type	fixed
Neutral overload protection (NP)	no
Pre-Trip Alarm (PTA)	no
Short time protection (std)	no
Short time protection by I ² 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	A
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)
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