## MCCB x160 3P 40kA 125A

## Architecture

Type of orderToggleType of caseFixed bullt-inNumber of poles3 PType of pole3P3DFunctionsComplete device with protection unityesTrip UnitTM P/PTrip UnitTM P/PIntegrated earth fault protectionnoCompatibilityCompatible with DIN rail mountingNotor drive integratednoMain electrical featuresFrequency50/60 HzRated operational woltage690 VRated operational woltage690 VRated insultation voltage690 VRated insultation voltage8000 VWith under voltage releasenoElectric currentRated service breaking capacity Icu40 kAunder 400V AC IEC 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kAUnder 416V AC IEC 60947-285 kAunder 416V AC IEC 60947-285 kARated ultimate short-circuit breaking capacity Icu40 kAunder 416V AC IEC 60947-251 kABreaking capacity Cuit Breaking capacity Icu40 kAunder 440V		Alcintectule	
Number of poles3 PType of pole3P3DFunctions3P3DComplete device with protection unityesTrip UnitTM P/FIntegrated earth fault protectionnoCompatibility0Compatible with DIN rail mountingnoControls and indicators0Mator drive integratednoMain electrical features50/60 HzFrequency50/60 HzRated operational voltage690 VRated operational voltage690 VRated insulfation voltage690 VRated insulfation voltage690 VRated service breaking capacity Icu40 KAunder 4000 XG IEC 60947-251 KABreaking capacity on 1 pole with 230 V NF 60947-251 KABreaking capacity on 1 pole with 200 V NF 60947-254 KAunder 230V AC IEC 60947-285 KAunder 240V AC IEC 60947-285 KAunder 415V AC IEC 60947-225 KAunder 415V AC IEC 60947-275 KAunder 415V AC IEC 60947-275 KA <t< td=""><td></td><td>Type of order</td><td>Toggle</td></t<>		Type of order	Toggle
Type of pole       3P3D         Functions       Complete device with protection unit       yes         Trip Unit       TM F/F         Integrated earth fault protection       no         Compatibility       Compatible with DIN rail mounting       no         Compatible with DIN rail mounting       no       Compatible with DIN rail mounting         Motor drive integrated       no       Motor drive integrated         Motor drive integrated       no       Main electrical features         Frequency       50/60 Hz       Rated operational voltage Ue       220/415 V         Voltage       Voltage       8000 V       With under voltage release       no         Rated insulation voltage       690 V       Rated insulation voltage       600 V         Rated insulation voltage release       no       0       0         With under voltage release       no       0       0         Rated ultimate short-circuit breaking capacity Icu       40 kA       0         under 400V AC IEC 60947-2       51 kA       0         Breaking capacity on 1 pole with 230 V NF 60947-2       51 kA       0         Breaking capacity on 1 pole with 230 V NF 60947-2       51 kA       0         Breaking capacity on 1 pole with 230 V NF 60947-2       51 kA		Type of case	Fixed built-in
Functions         Complete device with protection unit       yes         Trip Unit       TM F/F         Integrated earth fault protection       no         Compatibility       Compatible with DIN rail mounting       no         Compatible with DIN rail mounting       no       Controls and indicators         Motor drive integrated       no       Main electrical features         Frequency       50/60 Hz       Rated operational voltage Ue       220/415 V         Voltage       Rated insulfation voltage       690 V       Rated insulfation voltage       690 V         Rated insulfation voltage       690 V       Rated insulfation voltage       690 V       Rated insulfation voltage       690 V         Rated insulfation voltage       690 V       Rated insulfation voltage       690 V       Rated voltage release       no         Electric current       Rated voltage release       no       10 kA       10 kA       10 kA         Rated service breaking capacity los AC according IEC       50 %       60947-2       51 kA       18 kA         Breaking capacity on 1 pole with 230 V NF 60947-2       51 kA       18 kA       10 kA		Number of poles	3 P
Complete device with protection unityesTrip UnitTM F/EIntegrated earth fault protectionnoCompatibilitynoCompatible with DIN rail mountingnoControls and indicatorsnoMotor drive integratednoMain electrical featuresFrequencyFrequency50/60 HzRated operational voltage Ue220/415 VVoltageVoltageRated insulation voltage690 VRated insulation voltage690 VRated impulse withstand voltage8000 VWith under voltage releasenoElectric current40 kARated addition collage capacity Ics AC according IEC50 %60947-2Breaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 400 V VTF 60947-258 kAunder 230V AC IEC 60947-285 kARated ultimate short-circuit breaking capacity Icu40 kAunder 2400 V AC IEC 60947-285 kARated ultimate short-circuit breaking capacity Icu40 kAunder 240 V AC IEC 60947-285 kAunder 415V AC IEC 60947-285 kARated ultimate short-circuit breaking capacity Icu40 kAunder 440V AC IEC 60947-272Rated ultimate short-circuit breaking capacity Icu40 kAunder 440V AC IEC 60947-272Rated ultimate short-circuit breaking capacity Icu40 kAunder 440V AC IEC 60947-272Rated ultimate shor		Type of pole	3P3D
Trip UnitTM F/FIntegrated earth fault protectionnoCompatibility		Functions	AF
Integrated earth fault protection po Compatibility Compatible with DIN rail mounting no Controls and indicators Controls and indicators Motor drive integrated no Controls and indicators Frequency 50/60 Hz Rated operational voltage 00 V Rated insulation voltage 690 V Rated insulation voltage 690 V Rated insulation voltage 8000 V With under voltage release no Electric current Rated service breaking capacity Icu 40 kA under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated Ultimate short-ci		Complete device with protection unit	yes
CompatibilityCompatible with DIN rail mountingnoControls and indicatorsMotor drive integratednoMain electrical featuresFrequency50/60 HzRated operational woltage Ue220/415 VVoltageRated insulation voltage690 VRated impulse withstand voltage8000 VWith under voltage releasenoElectric currentRated altimate short-circuit breaking capacity Icu40 kAunder 400V AC IEC 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kARated ultimate short-circuit breaking capacity Icu85 kAunder 430V AC IEC 60947-240 kAunder 440V AC IEC 60947-225 kARated ultimate short-circuit breaking capacity Icu40 kAunder 440V AC IEC 60947-225 kARated ultimate short-circuit breaking capacity Icu6 kAunder 500V AC IEC 60947-285 kARated ultimate		Trip Unit	TM F/F
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Controls and indicatorsMotor drive integratednoMain electrical featuresFrequency50/60 HzRated operational voltage Ue220/415 VVoltageRated insulation voltage690 VRated insulation voltage690 VRated insulation voltage releasenoWith under voltage releasenoElectric currentRated ultimate short-circuit breaking capacity Icu40 kAunder 400V AC IEC 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-29 kARated ultimate short-circuit breaking capacity Icu85 kAunder 230 V AC IEC 60947-285 kAunder 230 V AC IEC 60947-285 kAunder 230 V AC IEC 60947-285 kAunder 415V AC IEC 60947-285 kAunder 415V AC IEC 60947-285 kAunder 415V AC IEC 60947-225 kARated ultimate short-circuit breaking capacity Icu40 kAunder 415V AC IEC 60947-285 kAunder 415V AC IEC 60947-225 kARated ultimate short-circuit breaking capacity Icu40 kAunder 415V AC IEC 60947-225 kAunder 415V AC IEC 60947-225 kAunder 400V AC IEC 60947-225 kAunder 400V AC IEC 60947-225 kAunder 690V AC IEC 60947-26 kA		Compatibility	2
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Main electrical featuresFrequency50/60 HzRated operational voltage Ue220/415 VVoltageRated insulation voltage690 VRated insulation voltage8000 VWith under voltage releasenoElectric current100 kARated service breaking capacity Icu40 kAunder 400V AC IEC 60947-251 kABreaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-29 kARated ultimate short-circuit breaking capacity Icu85 kAunder 230V AC IEC 60947-285 kAunder 240V AC IEC 60947-240 kAunder 415V AC IEC 60947-240 kAunder 415V AC IEC 60947-225 kAunder 415V AC IEC 60947-225 kARated ultimate short-circuit breaking capacity Icu25 kAunder 400V AC IEC 60947-27Rated ultimate short-circuit breaking capacity Icu25 kAunder 440V AC IEC 60947-225 kAunder 440V AC IEC 60947-26 kAunder 690V AC IEC 60947-26 kA		Controls and indicators	
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Rated impulse withstand voltage8000 VWith under voltage releasenoFlectric currentRated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-240 kARated service breaking capacity Ics AC according IEC 60947-250 %Breaking capacity on 1 pole with 230 V NF 60947-251 kABreaking capacity on 1 pole with 400 V NF 60947-29 kARated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-285 kAunder 230V AC IEC 60947-285 kAunder 240V AC IEC 60947-285 kAunder 240V AC IEC 60947-240 kAunder 415V AC IEC 60947-240 kAunder 415V AC IEC 60947-225 kAunder 415V AC IEC 60947-225 kAunder 440V AC IEC 60947-225 kAunder 440V AC IEC 60947-272Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-26 kAunder 440V AC IEC 60947-285 kAunder 440V AC IEC 60947-285 kA		Voltage	
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Rated ultimate short-circuit breaking capacity Icu 85 kA under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 25 kA under 440V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 6 kA under 690V AC IEC 60947-2	. A	Electric current	
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Rated ultimate short-circuit breaking capacity Icu 85 kA under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 40 kA under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 25 kA under 440V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 6 kA under 440V AC IEC 60947-2	0	Breaking capacity on 1 pole with 400 V NF 60947-2	9 kA
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under 440V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu 6 kA under 690V AC IEC 60947-2			40 kA
Rated ultimate short-circuit breaking capacity Icu 6 kA under 690V AC IEC 60947-2			25 kA
		Rated ultimate short-circuit breaking capacity Icu	6 kA
		Thermal protection nob setting xIN	1

## **Current correction factors**

	Current correction factors	
	Correction factor of rating current for 2 devices pl side-by-side	laced 1
	Correction factor of rating current for 3 devices pl side-by-side	laced 1
	Correction factor of rating current for 4 and 5 devi	ices 1
	placed side-by-side	
	Correction factor of rating current for 6 devices pl	laced 1
	side-by-side	
	Power	, Le
	Power loss per pole at In	11 W 🔊
	Total power loss under IN	33 W
	Tripping	FL
	Tripmode	ТМ
	Time of response when opening	10 ms
	Endurance	
	Electric endurance in number of cycles	1000
	Number of mechanical operations	4000
	Installation, mounting	
	Tightening torque	6Nm
	DIN rail mounting with optional adaptator	yes
	Connection	
	Connection cross-sect. rigid cable	4 / 95mm²
	Connection cross-sect. flexible conductor	4 / 70mm²
	Connection	Front connection
	Type of connection	with screw
0,0	Settings	
En la	Setting type In or Ith	IN
AV'	Range of the magnetic adjustment	1500 A
Supplied b ,	Equipment	
~ 19×	Motor drive optional	no
5	Use cases	
	Category of use	А
	Standards	
	Standard text	IEC 60947-2
	European directive WEEE	concerned
	Safety	
	Protection index IP	IP4X

## Use conditions

Altitude	2000 m
Storage temperature	-35 to 70 °C
Air humidity protection	for all climates

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