Components for system solutions

MCB Miniature circuit breaker

8530/1-MCB-STA101-C20-500-2 Art. No. 293999



Isolation function in accordance with EN60947-2

- Energy limitation class 3
- Simple replacement or expansion of your system thanks to a modular circuit breaker design
- Simple installation it snaps onto the mounting rail in Ex e enclosures
- · Non-adjustable thermal and magnetic releases
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Padlocks (Accessories) provide protection against being switched on again during maintenance work

MY R. STAHL 8530A



R. STAHL 8530 series miniature circuit breakers are overcurrent devices that also provide good current limiting for short circuits and a high switching capacity of 10, 15 or 25 kA. This results in a low load on cables and a high selectivity for upstream fuses. The components have a modular design and are therefore available in 1- to 4-pole versions and for rated currents of 0.5-63 A. The maximum installation capacity is 4.5 subunits.

Technical Data

Explosion Protection	
Application range (zones)	1,2
Application range (Zone) note	For use in Zone 21/22 when protected by Ex tb/tc enclosure
IECEx gas certificate	IECEx FMG 19.0029U
IECEX gas certificate	IECEx FMG 19.0029U
IECEx gas explosion protection	Ex db eb IIC Gb
ATEX gas certificate	FM19ATEX0191U
ATEX gas certificate	FM19ATEX0191U
ATEX gas explosion protection	🐼 II 2 G Ex db eb IIC Gb
Certificates	ATEX (FM), Brazil (ULB), China (CQST), IECEx (FM)
Declaration of conformity	Certificate of conformity (ATEX)
Electrical Data	·
Rated operational voltage AC	230 V
Rated operational current	20 A
Frequency	50/60 Hz
Rated switching capacity	10 kA
Electrical service life	2 x 10 ⁴
Mechanical service life	2 x 10⁴
1st auxiliary function	Auxiliary contact 1 change-over contact + fault signal contact 1 change-over contact
1st auxiliary function for AC rated voltage	230 V
1st auxiliary function for rated current	2 A
max.	
2nd auxiliary function	without
2nd auxiliary function voltage max. DC	-
Tripping characteristic	C
No. of poles	1-pole



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Ambient	Conditions

Ambient temperature -13° F +131° F Ambient temperature note Deviating ambient temperatures based on current certificates available on request Mechanical Data Degree of protection (IP) (IEC 60529) Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section max. 25 mm² Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 max. 10 mm² Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 1 availiary 0.5 mm² contact AWG min. 18 AWG Connection cross-section of auxiliary 0.5 mm² contact AWG max. 4 mm³ Connection cross-section of auxiliary 14 contact AWG max. 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time):	Ambient Conditions	
Ambient temperature note Deviating ambient temperatures based on current certificates available on request Mechanical Data Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section max. 25 mm² Connection cross-section AWG min. 1.5 mm² Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 max. 10 mm² Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 MWG min. 16 AWG Connection cross-section 2 AWG max. 8 AWG Connection cross-section 3 AWG max. 8 AWG Connection cross-section of auxiliary 0.5 mm² Connection cross-section 3 AWG max. 8 AWG Connection cross-section of auxiliary 0.5 mm² Connection cross-section 3 AWG max. 8 AWG Connection cross-section of auxiliary 0.5 mm² Connection cross-section 3 AWG max. 8 AWG Connection cross-section of auxiliary 14 Connection cross-section of auxiliary 14 Connection cross-section of auxiliary 14 Connection cross-section of auxiliary 14 Max. tightening torque	Ambient temperature	-25 °C 55 °C
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Connection cross-section max. 25 mm² Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 max. 10 mm² Connection cross-section 2 AWG max. 10 mm² Connection cross-section 2 AWG max. 8 AWG Connection cross-section of auxiliary 0.5 mm² Connection cross-section of auxiliary 18 Connection cross-section of auxiliary 18 Connection cross-section of auxiliary 14 Connection cross-section of auxiliary 14 Connection cross-section note 2 Nm Max. tightening torque 2 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maxinum difference of one cross section may be clamped between the upper and lower chamber.) Width 65 mm Width 65 mm Length 155 mm Length in inches 5.44 in<	Enclosure material	Thermoplast
Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG max. 8 AWG Connection cross-section 1 auxiliary 0.5 mm² contact min. Max. aux. cont. conn. cr.sec. 4 mm² Connection cross-section of auxiliary 0.5 mm² 0.5 mm² contact AWG min. 18 0.5 mm² Connection cross-section of auxiliary 18 0.5 mm² contact AWG max. 14 0.5 mm² Connection cross-section of auxiliary 14 0.5 mm² contact AWG max. 14 0.5 mm² Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. 165 mm Width 65 mm 65 mm Width, inches 2.56 in 18 a mm Length 165 mm 18 a mm <td>Connection cross section min.</td> <td>1.5 mm²</td>	Connection cross section min.	1.5 mm ²
ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 max. 10 mm² Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG max. 8 AWG Connection cross-section 0 auxiliary contact min. 0.5 mm² Connection cross-section of auxiliary contact AWG min. 0.5 mm² Connection cross-section of auxiliary contact AWG max. 14 Connection cross-section of auxiliary contact AWG max. 14 Connection cross-section of auxiliary contact AWG max. 2 Nm Min. tightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. Width 65 mm Width, inches 2.56 in Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1 kg Weight 1 kg	Connection cross-section max.	25 mm ²
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Connection cross-section 2 AWG max. 8 AWG Connection cross-section of auxiliary contact min. 0.5 mm² Max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. 18 Connection cross-section of auxiliary contact AWG max. 14 Connection cross-section of auxiliary contact AWG max. 2 Nm Min. tightening torque 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. Width 65 mm Width, inches 2.56 in Length 165 mm Length 18.3 mm Mounting depth in inches 5.44 in Weight 1 kg Weight 1 kg Weight 1 kg Weight 1 kg Tightening torque 2 – 3 Nm Tightening torque bf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm <td>Connection cross-section 2 max.</td> <td>10 mm²</td>	Connection cross-section 2 max.	10 mm ²
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Connection cross-section of auxiliary contact AWG min. 18 Connection cross-section of auxiliary contact AWG max. 14 Min. tightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. Width 65 mm Width, inches 2.56 in Length 165 mm Length 165 mm Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1 kg Weight 1 kg Weight 1 kg Tightening torque 2 -3 Nm Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm		0.5 mm ²
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Max. tightening torque 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): - upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. Width 65 mm Width, inches 2.56 in Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1 kg Weight 2.205 lb Mounting / Installation 17.7 to 26.6 lbf-in Tightening torque 0.4 - 0.6 Nm	-	14
Connection cross-section note 2-conductor connection (upper and lower chamber at the same time): upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. Width 65 mm Width, inches 2.56 in Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1 kg Weight 2.205 lb Mounting / Installation 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Min. tightening torque	2 Nm
- upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.)The permitted combinations of connection cross-sections can be found in the operating instructions.Width65 mmWidth, inches2.56 inLength165 mmLength165 mmDepth of cut-out138.3 mmMounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting / InstallationTightening torque2 - 3 NmTightening torque auxiliary contact0.4 - 0.6 Nm	Max. tightening torque	3 Nm
Width, inches2.56 inLength165 mmLength in inches6.5 inDepth of cut-out138.3 mmMounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm	Connection cross-section note	 upper and lower chamber max. 16 / 10 mm² (A maximum difference of one cross section may be clamped between the upper and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating
Length165 mmLength in inches6.5 inDepth of cut-out138.3 mmMounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting / InstallationTightening torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm	Width	65 mm
Length165 mmLength in inches6.5 inDepth of cut-out138.3 mmMounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting torque2 - 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 - 0.6 Nm	Width, inches	
Length in inches6.5 inDepth of cut-out138.3 mmMounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting / InstallationTightening torque2 - 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 - 0.6 Nm		165 mm
Mounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting / Installation2 – 3 NmTightening torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm	Length in inches	6.5 in
Mounting depth in inches5.44 inWeight1 kgWeight2.205 lbMounting / Installation2 – 3 NmTightening torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm		
Weight1 kgWeight2.205 lbMounting / Installation2 – 3 NmTightening torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm	Mounting depth in inches	5.44 in
Weight 2.205 lb Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm		
Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm		-
Tightening torque2 – 3 NmTightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm		
Tightening torque lbf in17.7 to 26.6 lbf-inTightening torque auxiliary contact0.4 – 0.6 Nm		2 – 3 Nm
Tightening torque auxiliary contact 0.4 – 0.6 Nm		17.7 to 26.6 lbf-in
	Tightening torque auxiliary contact	0.4 – 0.6 Nm
	Tightening torque auxiliary contact lbf in	3.5 to 5.3 lbf in

STAHL

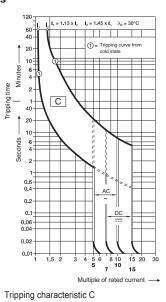
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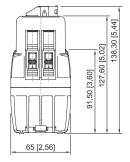
Technical Drawings – Subject to Alterations

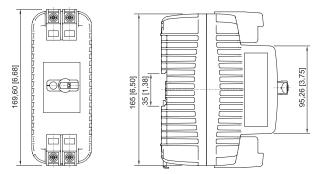


1-pole, auxiliary contact 1 change-over contact + fault signal contact 1 change-over contact



Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations





8530/1; 2 horizontal pitches

Accessories

4-way locking device		Art. No.
M.	A lock-out/tag-out hasp for individually locking the component using up to four cylinder locks.	227232

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Cylinder lock		Art. No.
	for closing (bracket Ø 3)	107115
Fastening set		Art. No.
	A fastening set for fastening the component on the mounting plate without a DIN rail	276618

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.