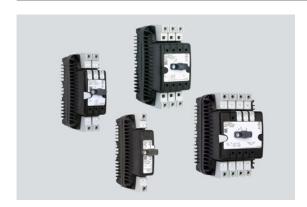
MCB Miniature circuit breaker



8530/1-MCB-STA103-C20-500-4 Art. No. 293901



- 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	
Certificates	ATEX (FM), Brazil (ULB), China (CQST), IECEx (FM)
Declaration of conformity	Certificate of conformity (ATEX)
Electrical Data	
Rated operational voltage AC	230/400 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	С
No. of poles	3-pole

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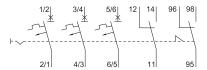
Ambient temperature note Deviating ambient temperatures based on current certificates available on request Mochanical Data Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section min. 1.5 mm² Connection cross-section max. 25 mm² Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 MWG min. 1.5 mm² Connection cross-section 2 MWG min. 1.5 mm² Connection cross-section 1 availiary contact min. 1.5 mm² Connection cross-section of auxiliary contact a MWG min. 1.5 mm² Connection cross-section of auxiliary contact AWG min. 1.5 mm² Connection cross-section of auxiliary contact AWG min. 1.5 mm² Connection cross-section of auxiliary contact AWG min. 1.5 mm² Connection cross-section of auxiliary contact AWG max. 1.5 mm² Connection cross-section of auxiliary contact AWG max. 1.5 mm² Length 110 mm Width 110 mm Mounting depth in inches 1.5 mm Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 1.8 kg Weight 1.8 kg Mounting Installation Tightening torque Bif in 17.7 to 26.8 lb-fin Tightening torque auxiliary contact 0.4 - 0.8 lbm	Ambient Conditions	
Ambient temperature note Mochanical Data Degree of protection (IP) (IEC 60529) Enclosure material Connection cross-section max. Z5 mm² Connection cross-section Max. AWG Connection cross-section AWG min. ACROSS 4 AWG Connection cross-section 2 min. Connection cross-section 2 min. Connection cross-section 2 min. Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 min. Connection cross-section 2 min. Connection cross-section 2 min. Connection cross-section 2 min. Connection cross-section 3 min. Connection cross-section 4 william and a min and a mi	Ambient temperature	-25 °C 55 °C
Degree of protection (IP) (IEC 60529) IP2X Connection cross section min. Connection cross-section max. Connection cross-section AWG min. ACROSS Connection cross-section 2 min. Connection cross-section 2 MWG min. Connection cross-section 2 AWG min. Connection cross-section 3 AWG Connection cross-section 4 MWG Connection cross-section 4 MWG Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque 2 Nm Max. tightening torque 2 Connection cross-section note Width, inches 4.33 in Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 1.8 kg Weight 1.7.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Ambient temperature	-13°F +131°F
Degree of protection (IP) (IEC 60529) Enclosure material Connection cross-section min. 1.5 mm² Connection cross-section max. 25 mm² Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 min. Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 min. Connection cross-section 2 min. 1.5 mm² 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 4 auxiliary contact min. Max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. The permitted contained min contained the same time): - 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 110 mm Width, inches 4.33 in Length inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 1.8 kg Weight 2.9 a Nm Tightening torque bir in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Ambient temperature note	Deviating ambient temperatures based on current certificates available on request
Enclosure material Thermoplast Connection cross section min. 1.5 mm² Connection cross-section May 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 min. 16 AWG Connection cross-section 2 AWG max. 16 AWG Connection cross-section 10 AWG min. 17 A Max. 2 min. 18 AWG Connection cross-section 10 AWG min. 18 AWG Connection cross-section 10 AWG min. 18 AWG Connection cross-section of auxiliary contact MWG min. 19 AWG Connection cross-section of auxiliary contact AWG min. 19 AWG Connection cross-section of auxiliary contact AWG min. 19 AWG Connection cross-section of auxiliary contact AWG min. 19 AWG Connection cross-section of auxiliary 2 AWG Min. tightening torque 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 110 mm Width, inches 4.33 in Length inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque bif in 17.7 to 26.6 lbF-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Mechanical Data	
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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 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section of auxiliary contact min. 16 AWG Connection cross-section of auxiliary contact MWG min. 18 Connection cross-section of auxiliary contact AWG min. 19 Connection cross-section of auxiliary contact AWG min. 19 Connection cross-section of auxiliary contact AWG max. 19 Max. aux. cont. conn. cr. sec. 2 Mm Max. tightening torque 3 Nm Connection cross-section note 2 Nm Max. tightening torque 3 Nm Connection cross-section note 2 Nm Max. tightening torque 3 Nm Connection cross-section note 3 Nm Connection cross-section note 4 Nm Min. tightening torque 3 Nm Connection cross-section note 5 Nm Max. tightening torque 6 Nm Max. tightening torque 7 Nm Max. tightening torque 8 Nm Max. tightening torque 9 Nm Max. tightening torque 10 Nm Midth 110 mm Midth 110 mm Midth 110 mm Midth, inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque bit in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	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 of auxiliary contact min. 16 AWG Connection cross-section of auxiliary contact min. 18 Max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. 18 Connection cross-section of auxiliary contact AWG min. 19 Connection cross-section of auxiliary contact AWG max. 19 Max. 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 110 mm Width, inches 4.33 in Length 165 mm Length 165 mm Length 165 mm Length 165 mm Length 110 mm Wounting depth in inches 5.44 in Weight 3.969 lb Mounting depth in inches 5.44 in Weight 3.969 lb Mounting / Installation Tightening torque 17.7 to 26.6 lbf-in Tightening torque 17.7 to 26.6 lbf-in Tightening torque buxiliary contact 0.4 – 0.6 Nm	Connection cross section min.	1.5 mm ²
ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 AWG min. 10 mm² Connection cross-section 2 AWG min. 6 AWG Connection cross-section 2 AWG max. 8 AWG Connection cross-section 2 AWG max. 8 AWG Connection cross-section of auxiliary contact min. 4 mm² Connection cross-section of auxiliary contact min. 8 max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. 18 Connection cross-section of auxiliary contact AWG min. 19 Connection cross-section of auxiliary contact AWG max. 19 Max. 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. 19 Width 110 mm Width, inches 4.33 in Length 165 mm Length 16c ut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque 15 in 17.7 to 26.6 lbf-in Tightening torque bt in 17.7 to 26.6 lbf-in Tightening torque busiliary contact 0.4 – 0.6 Nm	Connection cross-section max.	25 mm²
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Connection cross-section 2 max. Connection cross-section 2 AWG min. Connection cross-section of auxiliary contact min. Max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. 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 110 mm Width, inches 4.33 in Length inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque bf in 17.7 to 26.6 lbf-in Tightening torque building auxiliary contact 0.4 – 0.6 Nm	ACROSS	4 AWG
Connection cross-section 2 AWG min. Connection cross-section 2 AWG max. Connection cross-section of auxiliary contact min. Max. aux. cont. conn. crsec. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note	Connection cross-section 2 min.	1.5 mm ²
Connection cross-section 2 AWG max. Connection cross-section of auxiliary contact min. Max. aux. cont. conn. crsec. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. 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 Width Width, inches 4.33 in Length Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 1.8 kg Weight 1.8 kg Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Connection cross-section 2 max.	10 mm²
Connection cross-section of auxiliary contact min. Max. aux. cont. conn. crsec. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque Ax. tightening torque Connection cross-section note Connection cross-section note 2 Nm Max. tightening torque 3 Nm Connection cross-section note 2-conductor connection (upper and lower chamber at the same time):	Connection cross-section 2 AWG min.	16 AWG
contact min. Max. aux. cont. conn. crsec. 4 mm² Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note	Connection cross-section 2 AWG max.	8 AWG
Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact AWG max. 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 110 mm Width, inches 4.33 in Length Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 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	-	0.5 mm ²
contact AWG min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque Ax. tightening torque Connection cross-section note Connection cross-section may be clamped between the 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 110 mm Width, inches 4.33 in Length Length inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 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	Max. aux. cont. conn. crsec.	4 mm²
contact AWG max. Min. tightening torque 2 Nm Max. tightening torque 3 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 instructions. Width 110 mm Width, inches 4.33 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 1.8 kg Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque 2 - 3 Nm Tightening torque auxiliary contact 0.4 - 0.6 Nm	-	18
Max. tightening torque 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 110 mm Width, inches 4.33 in Length 165 mm Length 165 mm Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Connection cross-section of auxiliary contact AWG max.	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 110 mm Width, inches 4.33 in Length 165 mm Length 165 mm Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque 2 - 3 Nm 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. Width 110 mm Width, inches 4.33 in Length 165 mm Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 lb Mounting / Installation Tightening torque 2 - 3 Nm Tightening torque auxiliary contact 0.4 - 0.6 Nm	Max. tightening torque	3 Nm
Width, inches 4.33 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 1.8 kg Weight 3.969 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	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
Length 165 mm Length in inches 6.5 in Depth of cut-out 138.3 mm Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 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	Width	110 mm
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Mounting depth in inches 5.44 in Weight 1.8 kg Weight 3.969 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		
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Weight 3.969 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	Weight	1.8 kg
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 torque 2 – 3 Nm Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm		1
Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm		2 – 3 Nm
Tightening torque auxiliary contact 0.4 – 0.6 Nm		
	<u> </u>	
	Tightening torque auxiliary contact lbf in	

MCB Miniature circuit breaker

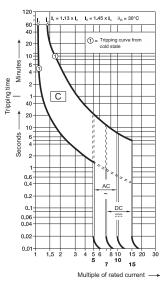


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Technical Drawings - Subject to Alterations

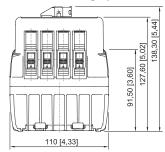


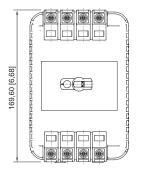
3-pole, auxiliary contact 1 change-over contact + fault signal contact 1 change-over contact

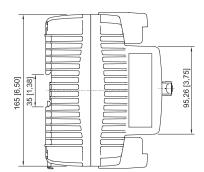


Tripping characteristic C

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







8530/1; 4 horizontal pitches

Accessories

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

MCB Miniature circuit breaker



8530/1-MCB-STA103-C20-500-4 Art. No. 293901

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.