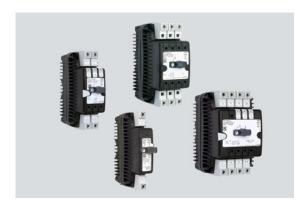
MCB Miniature circuit breaker



8530/1-MCB-STA103N-B50-100-4 Art. No. 293871



- 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	50 A
Frequency	50/60 Hz
Rated switching capacity	10 kA
Electrical service life	10⁴
Mechanical service life	2 x 10 ⁴
1st auxiliary function	Auxiliary 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	В
No. of poles	3-pole + N

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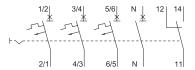
Ambient temperature note Deviating ambient temperatures based on current certificates available on request Mechanical Data Degree of protection (IP) (IEC 60529) IP2X Enclosure material Thermoplast Connection cross-section min. 1.5 mm² Connection cross-section AWG min. 16 AWG ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 1 AWG min. 1.5 mm² Connection cross-section 1 AWG min. 1.5 mm² Connection cross-section 1 AWG min. 1.5 mm² Connection cross-section of auxiliary contact 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 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 min. 1.5 mm² Connection cross-section of auxiliary contact AWG min. 1.5 mm² Connection cross-section for auxiliary contact AWG min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connection cross-section for auxiliary contact away min. 1.5 mm² Connectio	Ambient Conditions	
Ambient temperature note Mechanical Data Degree of protection (IP) (IEC 60529) Enclosure material Connection cross-section max. Connection cross-section max. Connection cross-section MWG min. Connection cross-section 2 min. Connection cross-section 1 min. Connection cross-section 6 auxiliary Connection cross-section 6 auxiliary Contact MWG min. Connection cross-section of auxiliary Contact AWG min. Connection cross-section note Width lightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note Connection cross-section note 10 mm Width, inches 4 33 in 16 mm Width, inches 4 33 in 17 mm Width, inches 4 33 in 18 minches Depth of cut-out 138.3 mm Mounting depth in inches 5 44 in Weight 1 18 kg Weight 1 18 kg Weight 1 18 kg Weight 1 17, To 26 6 lbf-in Tightening torque auxiliary contact 1 0,4 – 0.6 Nm	Ambient temperature	-25 °C 55 °C
Degree of protection (IP) (IEC 60529) IP2X Connection cross section min. Connection cross-section MVG min. ACROSS 4 AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 MVG min. 1.6 mWG Connection cross-section 2 MVG min. 1.6 mw² Connection cross-section 1 auxiliary contact min. 4 mm² 18 2 Nm Aux. aux. cont. conn. crsec. 4 mm² 2 Nm Mux. aux. cont. conn. crsec. 4 mm² 2 Nm Mux. aux. cont. conn. cr. section of auxiliary contact AVG min. Connection cross-section of auxiliary contact AVG max. Connection cross-section note The permitted combinations of connection cross-section of auxiliary contact AVG min. The permitted combinations of connection cross-sections can be found in the operating instructions. Width 110 mm Width, inches 4.33 in Length in inches 5.54 in Depth of cut-out Mounting depth in inches 5.54 in Weight 3.969 lb Mounting / Installation Tightening torque auxiliary contact 17.7 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. 1.5 mm² Connection cross-section 2 min. 10 mm² Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 10.5 mm² Connection cross-section 4 AWG min. 10.5 mm² Connection cross-section of auxiliary contact min. 11.5 mm² Connection cross-section of auxiliary contact AWG min. 12.5 mm² Connection cross-section of auxiliary contact AWG min. 14. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact awG min. The permitted combinations of connection chamber at the same time): - upper and lower chamber at the same time): - upper and lower chamber at the same time): - upper and lower chamber at the same time): - upper and lower chamber and lower chamber.) The permitted combinations of connection cross-sections can be found in the operating instructions. 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 3.969 lb Mounting / Installation Tightening torque 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 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. 16 AWG Connection cross-section of auxiliary contact min. 17 mm² Connection cross-section of auxiliary contact MWG min. 18 mm² Connection cross-section of auxiliary contact AWG min. 19 mm² Connection cross-section of auxiliary contact AWG min. 19 mm² Connection cross-section of auxiliary contact AWG min. 19 mm² Connection cross-section of auxiliary contact AWG min. 19 mm² Connection cross-section of auxiliary contact AWG max. 19 mm² Connection cross-section of auxiliary contact AWG min. 19 mm² Connection cross-section of auxiliary and public min to public m	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 of auxiliary contact min. 18 Max. aux. cont. conn. cr-sec. 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 - Connection cross-section note - Connect	Enclosure material	Thermoplast
Connection cross-section AWG min. ACROSS 4 AWG Connection cross-section 2 min. Connection cross-section 2 AWG min. Connection cross-section 2 AWG min. Connection cross-section 2 AWG min. Connection cross-section 1 auxiliary contact min. Max. aux. cont. conn. crsec. Connection cross-section of auxiliary contact AWG min. Connection cross-section of auxiliary contact of Wind min. Connection cross-section of auxiliary contact of Wind min. 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): - 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 Mounting depth in inches 5.44 in Weight 1.8 kg 3.969 lb Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque 2 – 3 Nm Tightening torque buf in 17. to 26.6 lbf-in Tightening torque auxiliary contact	Connection cross section min.	1.5 mm²
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. 8 AWG Connection cross-section of auxiliary contact min. 9 connection cross-section of auxiliary contact min. 18 connection cross-section of auxiliary contact AWG min. 19 cont	Connection cross-section max.	25 mm²
Connection cross-section 2 min. Connection cross-section 2 AWG min. Connection cross-section 2 AWG min. 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 MWG min. 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 1.8 kg Weight 1.8 kg Mounting / Installation Tightening torque 2 – 3 Nm Tightening torque 15 in Tightening torque 17.7 to 26.6 lbf-in Tightening torque 17.7 to 26.6 lbf-in Tightening torque 2 – 3 Nm Tightening torque 10 fin Tightening torque auxiliary contact	Connection cross-section AWG min.	16 AWG
Connection cross-section 2 max. 10 mm² 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 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 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 Weight 1.7 to 26.6 lbf-in Tightening torque lbf in 17.7 to 26.6 lbf-in Tightening torque auxiliary contact	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 max. Min. tightening torque 2 Nm Max. tightening torque 3 Nm Connection cross-section note	Connection cross-section 2 min.	1.5 mm²
Connection cross-section 2 AWG max. 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 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 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 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 min. Connection cross-section of auxiliary contact AWG max. Min. tightening torque 2 Nm 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 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 Weight 1.8 kg Weight Mounting / Installation Tightening torque 2 - 3 Nm Tightening torque auxiliary contact 0.4 - 0.6 Nm	Connection cross-section 2 AWG min.	16 AWG
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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 The permitted combinations of connection cross-sections can be found in the operating instructions. Width 110 mm Width, inches Length Length Length Length in inches O.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 17.7 to 26.6 lbf-in Tightening torque auxiliary contact 0.4 – 0.6 Nm	Max. aux. cont. conn. crsec.	4 mm²
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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 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 lbf in 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 blf in 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. 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 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 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
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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	-
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 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 auxiliary contact 0.4 – 0.6 Nm	<u> </u>	
Franciscus Colono duvinui y portugu pri ir i i popito U.O IDI III	Tightening torque auxiliary contact lbf in	3.5 to 5.3 lbf in

MCB Miniature circuit breaker

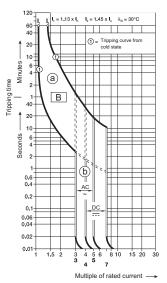


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Technical Drawings – Subject to Alterations

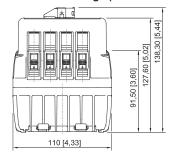


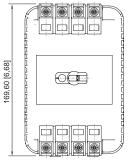
3-pole+N, auxiliary contact 1 change-over contact



Tripping characteristic B

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





35 (1.38)

8530/1; 4 horizontal pitches

Accessories

4-way locking device	ee	Art. No.
ASS.	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-STA103N-B50-100-4 Art. No. 293871

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.