



- Non-adjustable thermal and magnetic releases
- Isolating function in accordance with EN 60947-2
- International approvals for worldwide use
- Simple replacement or expansion of your system thanks to a modular circuit breaker design
- Padlocks provide protection against being switched on again during maintenance work
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Large cable dia. range of the main terminals

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MY R. STAHL 8550A



R. STAHL Series 8550 moulded case circuit breakers boast a broad range of rated operating currents from 15 to 125 A, as well as excellent current limiting for short circuits and a high switching capacity of up to 10 kA, depending on the switched voltage. The short-circuit release threshold is ten times the nominal current. DC currents can also be switched at voltages up to 250 V DC. The components are designed to be modular and are therefore ideal for combining with the contactor, also available in this series, and overload relay to form a motor starter. Other applications are in power distribution boards.

Zone	IECEX / ATEX					
	0	1	2	20	21	22
Installation in		•	•			

Division	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Installation in		•*				

Zone	CE Code Section 18					
	NEC® 505 Class I			NEC® 506		
Installation in		•	•			

* Restrictions, see certificate

Selection Table						
Product variant	with auxiliary contacts					
1st auxiliary function	Auxiliary contact 1 change-over contact					
2nd auxiliary function	Fault signal contact 1 change-over contact					
3rd auxiliary function	Shunt release					
Rated operational current	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight	
100 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-S05S	283727	4.3 kg	
Product variant	with auxiliary contacts					
1st auxiliary function	Auxiliary contact 1 change-over contact					
2nd auxiliary function	Fault signal contact 1 change-over contact					
3rd auxiliary function	without					
Rated operational current	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight	
30 A	2.5 – 10 mm ²	14 ... 8 AWG	8550/1-MCCB-GLS3-TM-030-10-AS1-FS1-0000	313490	4.3 kg	
	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-030-25-AS1-FS1-0000	313501	4.3 kg	
	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-030-95-AS1-FS1-0000	313502	4.3 kg	
40 A	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-040-25-AS1-FS1-0000	313015	4.3 kg	
60 A	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-060-25-AS1-FS1-0000	307515	4.3 kg	
63 A	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-063-25-AS1-FS1-0000	313016	4.3 kg	
	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-063-95-AS1-FS1-0000	313654	4.3 kg	

Selection Table

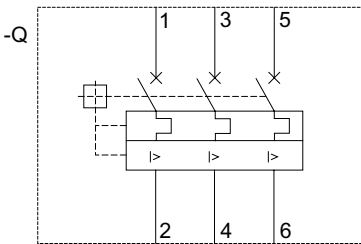
Product variant		with auxiliary contacts			
1st auxiliary function		Auxiliary contact 1 change-over contact			
2nd auxiliary function		Fault signal contact 1 change-over contact			
3rd auxiliary function		without			
Rated operational current	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight
100 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-0000	307517	4.3 kg
125 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-125-95-AS1-FS1-0000	307518	4.3 kg
Product variant		without auxiliary contacts			
1st auxiliary function		without			
2nd auxiliary function		without			
3rd auxiliary function		without			
Rated operational current	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight
20 A	2.5 – 10 mm ²	14 ... 8 AWG	8550/1-MCCB-GLS3-TM-020-10-000-000-0000	313421	4.3 kg
30 A	2.5 – 10 mm ²	14 ... 8 AWG	8550/1-MCCB-GLS3-TM-030-10-000-000-0000	287847	4.3 kg
50 A	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-050-25-000-000-0000	313390	4.3 kg
60 A	10 – 25 mm ²	8 ... 4 AWG	8550/1-MCCB-GLS3-TM-060-25-000-000-0000	287848	4.3 kg
80 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-080-95-000-000-0000	313388	4.3 kg
100 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-100-95-000-000-0000	307516	4.3 kg
110 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-110-95-000-000-0000	313389	4.3 kg
125 A	25 – 95 mm ²	4 ... 4/0 AWG	8550/1-MCCB-GLS3-TM-125-95-000-000-0000	287846	4.3 kg

Technical Data

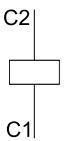
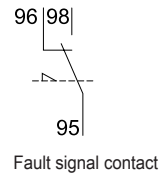
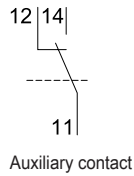
Variant	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-S05S with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-AS1-FS1-0000 with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-000-000-0000 without auxiliary contacts
Explosion Protection			
Application range (Zone) note	For use in Zone 21/22 when protected by Ex tb/tc enclosure	For use in Zone 21/22 when protected by Ex tb/tc enclosure	For use in Zone 21/22 when protected by Ex tb/tc enclosure
IECEx gas explosion protection	Ex db eb IIC Gb	Ex db eb IIC Gb	Ex db eb IIC Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC Gb	Ⓔ II 2 G Ex db eb IIC Gb	Ⓔ II 2 G Ex db eb IIC Gb
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 1, AEx db eb IIC Gb;	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 1, AEx db eb IIC Gb;	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 1, AEx db eb IIC Gb;
Marking cFM	Class I, Zone 1, Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D;	Class I, Zone 1, Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D;	Class I, Zone 1, Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D;
Certificates	ATEX (FM), Brazil (ULB), Canada (FM), IECEx (FM), USA (FM)	ATEX (FM), Brazil (ULB), Canada (FM), IECEx (FM), USA (FM)	ATEX (FM), Brazil (ULB), Canada (FM), IECEx (FM), USA (FM)
Electrical Data			
Rated operational voltage AC	12 ... 690 V	12 ... 690 V	12 ... 690 V
Rated operational voltage AC (NEC)	12 ... 600Y/347 V	12 ... 600Y/347 V	12 ... 600Y/347 V
Rated operational voltage DC	12 ... 250 V	12 ... 250 V	12 ... 250 V
Rated operational voltage DC (NEC)	12 ... 250 V	12 ... 250 V	12 ... 250 V
Electrical service life	8000	8000	8000
Mechanical service life	10 ⁴	10 ⁴	10 ⁴
Rated impulse voltage Uimp	8 kV	8 kV	8 kV
Main contacts	3-pole (3 NO)	3-pole (3 NO)	3-pole (3 NO)
1st auxiliary function	Auxiliary contact 1 change-over contact	Auxiliary contact 1 change-over contact	without
1st auxiliary function for AC rated voltage	240 V	240 V	-
1st auxiliary function voltage max. DC	250 V	250 V	-

Technical Data			
Variant	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-S05S with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-AS1-FS1-0000 with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-000-000-0000 without auxiliary contacts
Electrical Data			
1st auxiliary function for rated current max.	6 A	6 A	-
2nd auxiliary function	Fault signal contact 1 change-over contact	Fault signal contact 1 change-over contact	without
2nd auxiliary function voltage AC	240 V	240 V	-
2nd auxiliary function voltage max. DC	250 V	250 V	-
2nd auxiliary function for rated current max.	6 A	6 A	0 A
3rd auxiliary function	Shunt release	without	without
3rd auxiliary function voltage AC	208 ... 277 V		
3rd aux. function voltage DC	220 ... 250 V		
Tripping time	0 – 10 ms	0 – 10 ms	0 – 10 ms
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
Ambient Conditions			
Ambient temperature	-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
Ambient temperature	-13 °F ... +158 °F	-13 °F ... +158 °F	-13 °F ... +158 °F
Mechanical Data			
Degree of protection (IP)	IP20	IP20	IP20
Enclosure material	Thermoplast	Thermoplast	Thermoplast

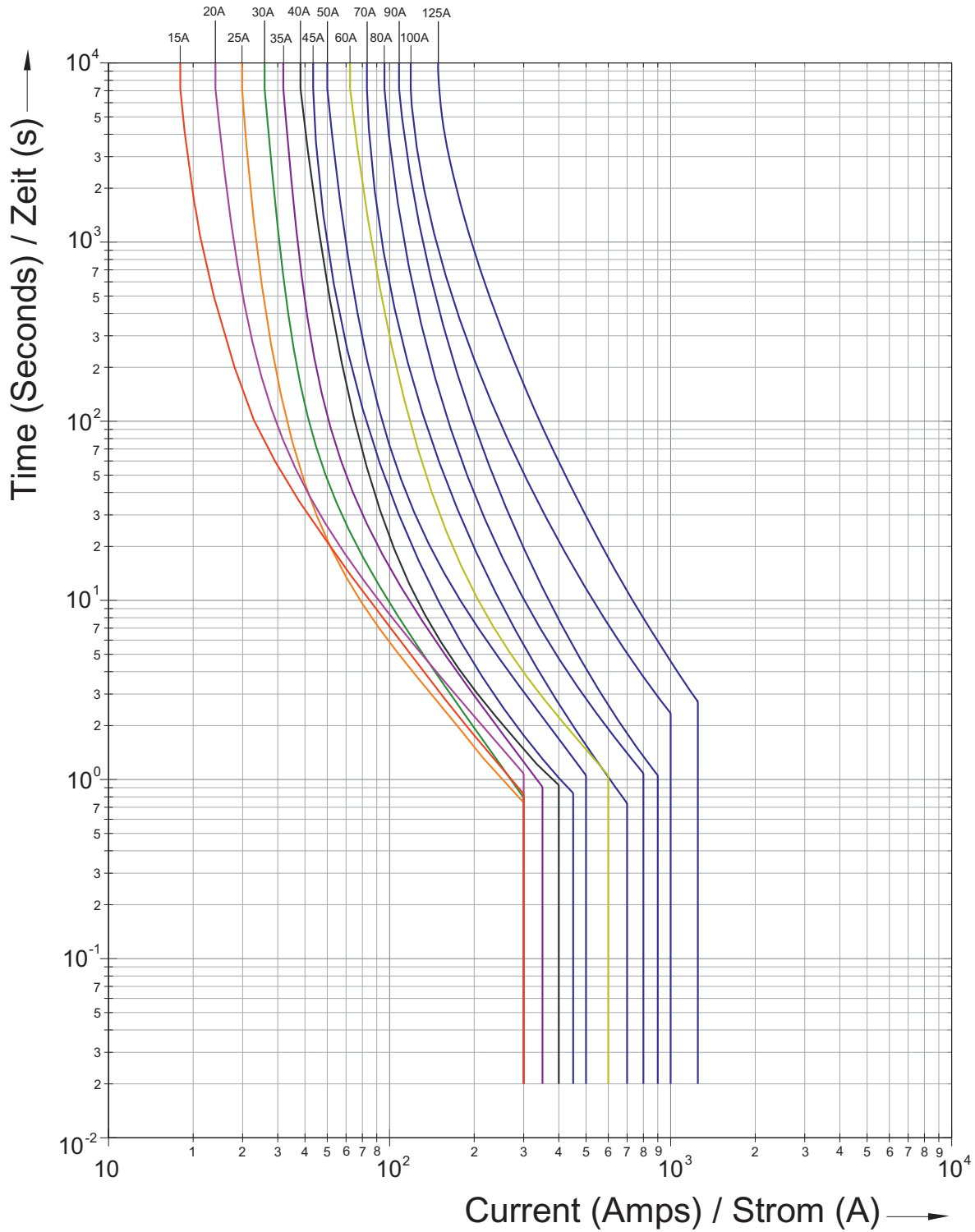
Technical Drawings – Subject to Alterations



Circuit diagram of the device



Shunt release



Tripping characteristic curves

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

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