



- 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 molded 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.

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface						
Installation in		•*				

	CE Code Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•			

	IECEX / ATEX					
	Zone					
Zone	0	1	2	20	21	22
Ex interface						
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 AWG	Connection cross-section	Product Type	Art. No.	Weight lb	
100 A	4 ... 4/0 AWG	25 – 95 mm²	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-S05S	283727	9.48 lb	
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 AWG	Connection cross-section	Product Type	Art. No.	Weight lb	
30 A	4 ... 4/0 AWG	25 – 95 mm²	8550/1-MCCB-GLS3-TM-030-95-AS1-FS1-0000	313502	9.48 lb	
	8 ... 4 AWG	10 – 25 mm²	8550/1-MCCB-GLS3-TM-030-25-AS1-FS1-0000	313501	9.48 lb	
	14 ... 8 AWG	2.5 – 10 mm²	8550/1-MCCB-GLS3-TM-030-10-AS1-FS1-0000	313490	9.48 lb	
40 A	8 ... 4 AWG	10 – 25 mm²	8550/1-MCCB-GLS3-TM-040-25-AS1-FS1-0000	313015	9.48 lb	
60 A	8 ... 4 AWG	10 – 25 mm²	8550/1-MCCB-GLS3-TM-060-25-AS1-FS1-0000	307515	9.48 lb	

Selection Table

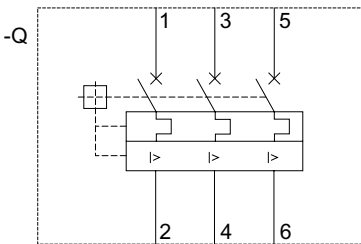
Product variant		with auxiliary contacts			
1st auxiliary function		Auxiliary contact 1 change-over contact			
2nd auxiliary function		Fault signal contact 1 change-over contact			
3rd auxiliary function		without			
Rated operational current	Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight lb
63 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-063-95-AS1-FS1-0000	313654	9.48 lb
	8 ... 4 AWG	10 – 25 mm ²	8550/1-MCCB-GLS3-TM-063-25-AS1-FS1-0000	313016	9.48 lb
100 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-0000	307517	9.48 lb
125 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-125-95-AS1-FS1-0000	307518	9.48 lb
Product variant		without auxiliary contacts			
1st auxiliary function		without			
2nd auxiliary function		without			
3rd auxiliary function		without			
Rated operational current	Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight lb
20 A	14 ... 8 AWG	2.5 – 10 mm ²	8550/1-MCCB-GLS3-TM-020-10-000-000-0000	313421	9.48 lb
30 A	14 ... 8 AWG	2.5 – 10 mm ²	8550/1-MCCB-GLS3-TM-030-10-000-000-0000	287847	9.48 lb
50 A	8 ... 4 AWG	10 – 25 mm ²	8550/1-MCCB-GLS3-TM-050-25-000-000-0000	313390	9.48 lb
60 A	8 ... 4 AWG	10 – 25 mm ²	8550/1-MCCB-GLS3-TM-060-25-000-000-0000	287848	9.48 lb
80 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-080-95-000-000-0000	313388	9.48 lb
100 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-100-95-000-000-0000	307516	9.48 lb
110 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-110-95-000-000-0000	313389	9.48 lb
125 A	4 ... 4/0 AWG	25 – 95 mm ²	8550/1-MCCB-GLS3-TM-125-95-000-000-0000	287846	9.48 lb

Technical Data

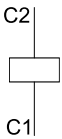
Variant	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-S05S with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-AS1-FS1-0000 with auxiliary contacts	8550/1-MCCB-GLS3-TM-...-000-000-0000 without auxiliary contacts
Explosion Protection			
Application range (Zone) note	For use in Zone 21/22 when protected by Ex tb/tc enclosure	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
FMus certificate	FM22US0011U	FM22US0011U	FM22US0011U
cFM certificate	FM22CA0006U	FM22CA0006U	FM22CA0006U
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;
IECEX gas explosion protection	Ex db eb IIC Gb	Ex db eb IIC Gb	Ex db eb IIC Gb
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			
AC rated operat. voltage (NEC)	12 ... 600Y/347 V	12 ... 600Y/347 V	12 ... 600Y/347 V
Rated operational voltage AC	12 ... 690 V	12 ... 690 V	12 ... 690 V
Rated operational voltage DC (NEC)	12 ... 250 V	12 ... 250 V	12 ... 250 V
Rated operational voltage DC	12 ... 250 V	12 ... 250 V	12 ... 250 V
Electrical service life	8000	8000	8000

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			
Mechanical service life	10 ⁴	10 ⁴	10 ⁴
Rated impulse voltage U _{imp}	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	-
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 °F	-13 °F ... +158 °F	-13 °F ... +158 °F	-13 °F ... +158 °F
Ambient temperature °C	-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
Mechanical Data			
Degree of protection (IP)	IP20	IP20	IP20
Enclosure material	Thermoplast	Thermoplast	Thermoplast

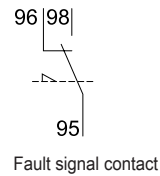
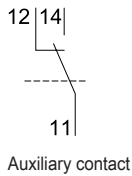
Technical Drawings – Subject to Alterations



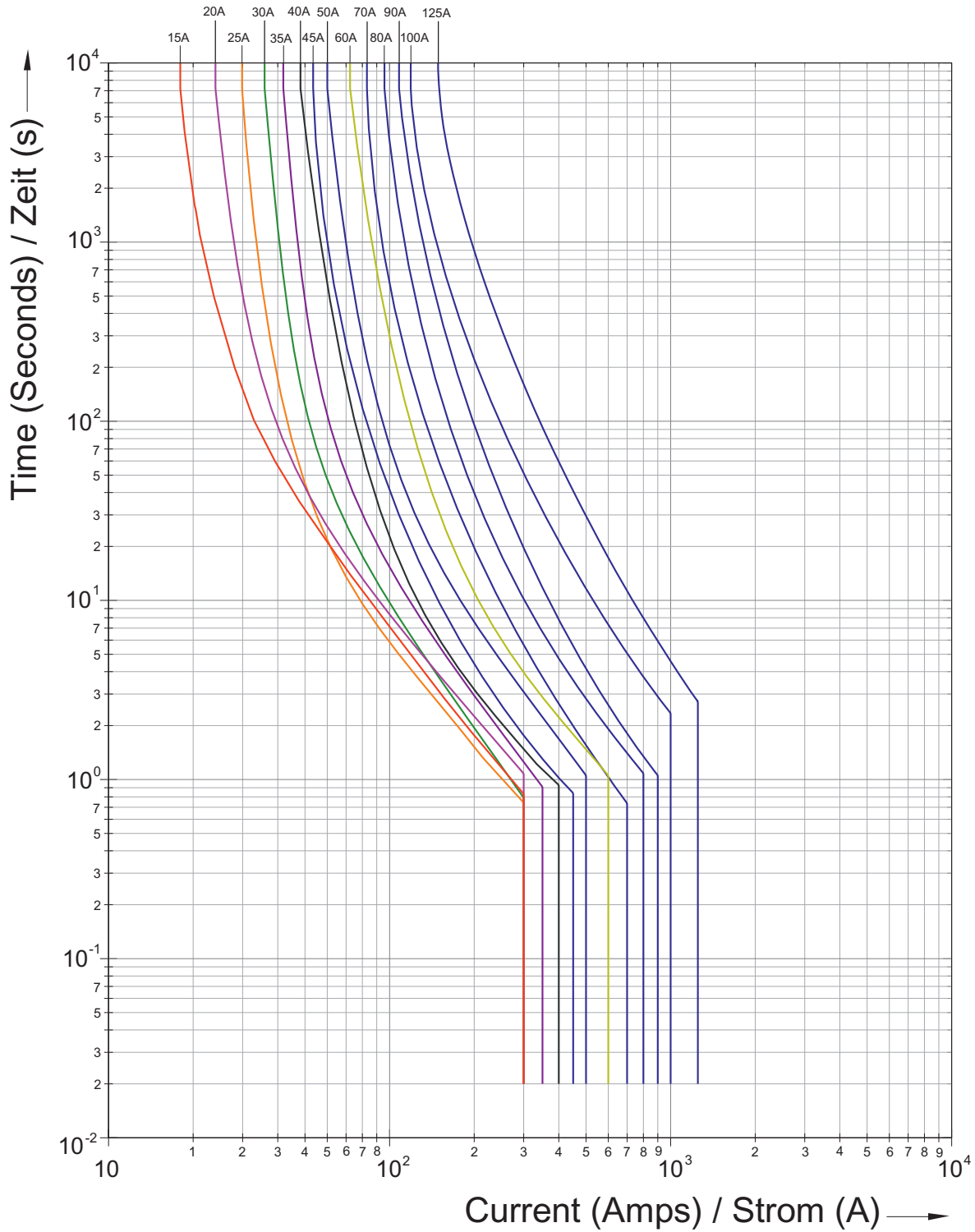
Circuit diagram of the device



Shunt release



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Tripping characteristic curves

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

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