- Magnetic interrupting device to protect against short-circuit damage
- Isolation function in accordance with EN 60947-2
- Can be used globally thanks to international approvals
- Simple replacement or expansion of your system thanks to a modular design
- Padlocks provide lockout in both “ON” & “OFF” position
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Large clamping range for main terminals

MY R. STAHL **8550D**

R. STAHL Series 8550 short-circuit breakers provide exceptional current limiting for short circuits and a high switching capacity from 100 A to 10 kA. The short-circuit trigger threshold is 16 times the nominal current. 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 Class I			NEC® 506		
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•			

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•			

Selection Table

Product variant 1st auxiliary function 2nd auxiliary function 3rd auxiliary function	with auxiliary contacts Auxiliary contact 1 change-over contact Fault signal contact 1 change-over contact without				
Rated operational current	Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight
100 A	4 … 4/0 AWG	25 – 95 mm²	**8550/1-MCS-GLS3-MO-100-95-AS1-FS1-0000**	315919	4.3 kg
	8 ... 4 AWG	10 – 25 mm²	**8550/1-MCS-GLS3-MO-100-25-AS1-FS1-0000**	315920	4.3 kg
Product variant 1st auxiliary function 2nd auxiliary function 3rd auxiliary function	without auxiliary contacts without without without				
Rated operational current	Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight
100 A	4 … 4/0 AWG	25 – 95 mm²	**8550/1-MCS-GLS3-MO-100-95-000-000-0000**	315523	4.1 kg
	8 ... 4 AWG	10 – 25 mm²	**8550/1-MCS-GLS3-MO-100-25-000-000-0000**	315991	4.1 kg

Technical Data

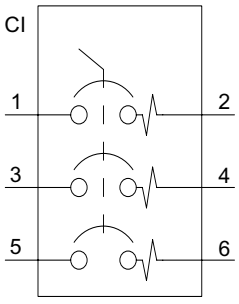
Variant	**8550/1-MCS-GLS3-MO-100-..-AS1-FS1-0000 with auxiliary contacts**	**8550/1-MCS-GLS3-MO-100-..-000-000-0000 without auxiliary contacts**
Explosion Protection		
Application range (Zone) note	For use in Zone 21/22 when protected by Ex tb/tc enclosure	For use in Zone 21/22 when protected by Ex tb/tc enclosure
FMus certificate	FM22US0011U	FM22US0011U

I

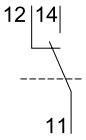
Technical Data

Variant	8550/1-MCS-GLS3-MO-100-..-AS1-FS1-0000 with auxiliary contacts	8550/1-MCS-GLS3-MO-100-..-000-000-0000 without auxiliary contacts
Explosion Protection		
cFM certificate	FM22CA0006U	FM22CA0006U
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Zone 1, AEx db eb IIC Gb;	Class I, Div. 2, Groups A,B,C,D; Zone 1, AEx db eb IIC Gb;
Marking cFM	Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D;	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
ATEX gas explosion protection	Ⓔx II 2 G Ex db eb IIC Gb	Ⓔx II 2 G 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)
Electrical Data		
Rated operational voltage AC (NEC)	12 – 480 V	12 – 480 V
Rated operational voltage AC	12 ... 415 V	12 ... 415 V
Electrical service life	8000	8000
Mechanical service life	10^4	10^4
Rated impulse voltage Uimp	8 kV	8 kV
Main contacts	3-pole (3 NO)	3-pole (3 NO)
1st auxiliary function	Auxiliary contact 1 change-over contact	without
1st auxiliary function for AC rated voltage	240 V	-
1st auxiliary function voltage max. DC	250 V	-
1st auxiliary function for rated current max.	6 A	-
2nd auxiliary function	Fault signal contact 1 change-over contact	without
2nd auxiliary function voltage AC	240 V	-
2nd auxiliary function voltage max. DC	250 V	-
2nd auxiliary function for rated current max.	6 A	0 A
3rd auxiliary function	without	without
Tripping time	0 – 10 ms	0 – 10 ms
Frequency range	50 – 60 Hz	50 – 60 Hz
Mechanical Data		
Degree of protection (IP)	IP20	IP20
Enclosure material	Thermoplast	Thermoplast

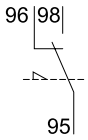
Technical Drawings – Subject to Alterations



Circuit diagram of the device



Auxiliary contact



Fault signal contact

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