



- Modular component for monitoring motor overload up to 37 kW/ 50 hp at 400/480 V
- The electronic relay is not affected by fluctuations in the ambient temperature
- Large cable dia. range of the main terminals
- Trigger class E5, E10, E20 and E30 can be selected via type code
- Integrated earth fault protection
- Wide adjustment range of the overload release from 20 to 80 A
- Integrated reset button and electronic reset via 24 V DC actuation

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MY R. STAHL 8550B



The R. STAHL Series 8550 electronic overload relay is a component for monitoring the load current of motors. It reliably reports an overload and safely shuts off the motor using a contactor. Together with the moulded case circuit breaker in the same series which is also available, these three components form a motor starter which reliably controls powers up to 37 kW/50 hp at 400 or 480 V (other powers available on request). Earth fault protection is also integrated. This means that Ex d and Ex e motors are safely protected at all points. The broad adjustment range of the overload current optimises the variety of versions. Resetting in case of error is either done manually on the unit on-site via the integrated reset button, or electrically via the control system.

	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	0	1	2	20	21	22
Ex interface						
Installation in		•	•			

* Restrictions, see certificate

Selection Table					
Trigger class	Class E10				
Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight	
4 ... 4/0 AWG	25 – 95 mm ²	8550/1-OL-GLS3-E10-80-95-11	283722	4 kg	
8 ... 4 AWG	10 – 25 mm ²	8550/1-OL-GLS3-E10-80-25-11	307564	4 kg	
Trigger class	Class E20				
Connection cross-section AWG	Connection cross-section	Product Type	Art. No.	Weight	
4 ... 4/0 AWG	25 – 95 mm ²	8550/1-OL-GLS3-E20-80-95-11	287845	4 kg	

Technical Data	
Explosion Protection	
Application range (Zone) note	For use in Zone 21/22 when protected by Ex tb/tc enclosure
FMus certificate	FM22US0011U
cFM certificate	FM22CA0006U
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 1, AEx IIC Gb;
Marking cFM	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
Certificates	ATEX (FM), Brazil (ULB), Canada (FM), IECEx (FM), USA (FM)

Technical Data

Electrical Data

Rated operational voltage	690 V
Rated operational current	20 – 80 A
Frequency	50 ... 60 Hz
Main contacts	3-pole
Auxiliary contacts	2 (1 NO + 1 NC)
1st auxiliary function for AC rated voltage	-
1st auxiliary function voltage max. DC	-
1st auxiliary function for rated current max.	-
2nd auxiliary function voltage AC	-
2nd auxiliary function voltage max. DC	-
2nd auxiliary function for rated current max.	-

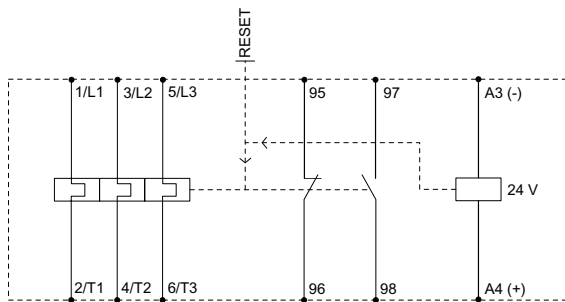
Ambient Conditions

Ambient temperature °F	-13 °F ... +140 °F
Ambient temperature °C	-25 °C ... +60 °C

Mechanical Data

Degree of protection (IP)	IP20
Enclosure material	Thermoplast

Technical Drawings – Subject to Alterations



Circuit diagram of the device

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

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