



- 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

E9

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.

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

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

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

* Restrictions, see certificate

Selection Table					
Trigger class	Class E10				
Connection cross-section	Connection cross-section AWG		Product Type		Art. No. Weight
10 – 25 mm ²	8 ... 4 AWG		8550/1-OL-GLS3-E10-80-25-11		307564 4 kg
25 – 95 mm ²	4 ... 4/0 AWG		8550/1-OL-GLS3-E10-80-95-11		283722 4 kg
Trigger class	Class E20				
Connection cross-section	Connection cross-section AWG		Product Type		Art. No. Weight
25 – 95 mm ²	4 ... 4/0 AWG		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
IECEX gas explosion protection	Ex db eb IIC Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC Gb
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;
Certificates	ATEX (FM), Brazil (ULB), Canada (FM), IECEX (FM), USA (FM)
Electrical Data	
Rated operational voltage	690 V
Rated operational current	20 – 80 A

Technical Data

Electrical Data

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.	-

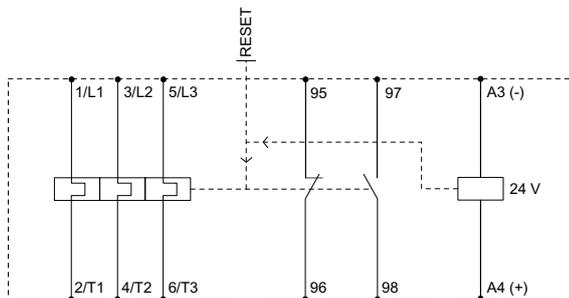
Ambient Conditions

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

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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