



- Modular component for overload monitoring of motors up to 37 kW / 50 hp at 400/480 V
- The electronic relay is sensitive to a fluctuating ambient temperature
- Large clamping range for main terminals
- Tripping class E5, E10, E20 and E30 can be selected via type code
- Integrated earth protection
- Greater adjustment range of the overload trigger from 20 to 80 A
- Integrated reset button and electronic reset via 24 V DC control

E9

WebCode **8550B**



The electronic overload relay for R. STAHL's 8550 series is a component for load current monitoring 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 control powers up to 37 kW / 50 hp at 400 or 480 V (other powers available on request). Earth fault protection is also integrated, meaning 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			20	21	22
Zone	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 to 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 to 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, Div. 2, Groups A,B,C,D; Class I, Zone 1, Ex db eb IIC Gb
Certificates	ATEX (FM), 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)

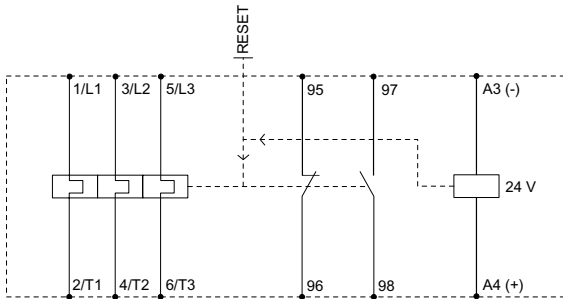
Ambient Conditions

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

