

Protection modules for scroll and reciprocating compressors

SE-B1/SE-B2/SE-B3



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SE-B1/SE-B2/SE-B3

Temperature monitoring

The SE-B1/SE-B2/SE-B3 opens the relay contact in the control circuit and locks out immediately if the allowable temperatures for motor or discharge gas (optional PTC sensor) are exceeded.

Reset

Interrupt supply voltage (L/N) for at least 5 seconds.



All Bitzer reciprocating and scroll compressors of the ESH7 and ESH9 series have as standard equipment the motor protection devices SE-B1, SE-B2 or SE-B3 (Signal Evaluation - Basic).



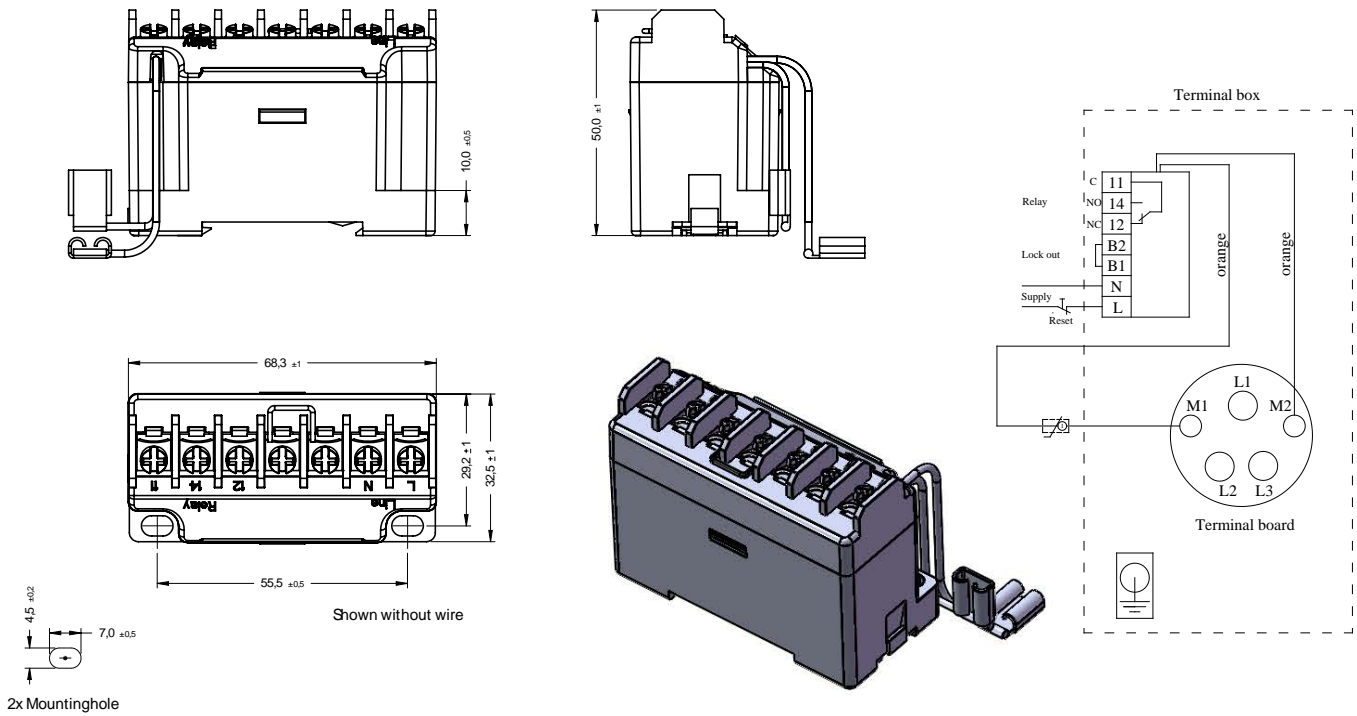
 **Lodam**
BY BITZER GROUP

Lodam electronics a/s
Kærvej 77
6400 Sønderborg
Denmark

Tel. +45 73 42 37 37
Fax +45 73 42 37 30

lodam@lodam.com
www.lodam.com

SE-B1/SE-B2/SE-B3 connection diagram



Technical specifications:

Description	SE-B1	SE-B2	SE-B3
Operation voltage	230 V; +10% ~ -15%, 50/60 Hz, 2VA		115 V-230 V; +10% ~ -15%, 50/60 Hz, 2VA
Permitted ambient temperature	-30 °C – +70 °C		-30 °C – +60 °C
PTC sensor cable length	120 mm	350 mm	
PTC sensor cable terminals	Flag terminal 250T (6,35*0,8)		
Relative humidity	5 %RH - 95 %RH, non-condensing		
Relay	Switch voltage 250 V ~ Continuous current max 2.5A Switching capacity 300 VA, C300.		
PTC measuring circuit	Sensor type: Thermistors according to DIN 44081/82, Thermistor type: 1..9 in series R total < 1,8 KΩ Switching point: Relay off > 4,5 KΩ +/- 5% Relay on < 2,7 KΩ +/- 5%		
Fuse required	4A, fast-blow		
Enclosure class	Terminals IP00		
Terminal torque rating	6 lb-in." / 0.7 Nm or equivalent.		
Terminal wire range	Cu 60°C only. 20-14 AWG / 0.5 mm ² - 2,0 mm ²		