

BR1-27 INSTRUCTIONS FOR USE

Thank you for having chosen an LAE electronic product. Before installing the instrument, please read this instruction booklet carefully in order to ensure safe installation and optimum performance.

1. INSTALLATION

- The BR1-27 controller, size 71x97x61 mm (WxHxD), is to be secured to a DIN rail in such a position as to ensure that no liquid infiltrates causing serious damage and compromising safety.

2. DISPLAY INFO

Alarm h Room high temperature alarm
Thermostat output L Room low temperature alarm
Fan output h Condenser high temperature
Defrost output RL Generic alarm

In case of alarm, press any key to mute the buzzer sound.

Navigation diagrams showing menu flow between temperature displays, RTC modification, keypad lock, and TH/TLO/CND reset.

3. OPERATION

Setpoint I and II: display and modification. Standby (SB=YES) diagram showing sequence from setpoint to standby.

3.1 SELECTION OF SECOND PARAMETER GROUP

Manual (IISM=MAN), Automatic (IISM=ECO), Contact (IISM=Dl), Real time clock (IISM=RTC) selection icons and labels.

3.2 DEFOST START

Manual, Real time clock (DFM=RTC), Timed (DFM=TIM), Optimized (DFM=FRO), Remote (DxO=RDS) start methods and synchronized D2O=DSY diagram.

3.3 DEFOST TERMINATION

Time limit, Survey of 1 evaporator before time limit, Survey of 2 evaporators before time limit diagrams.

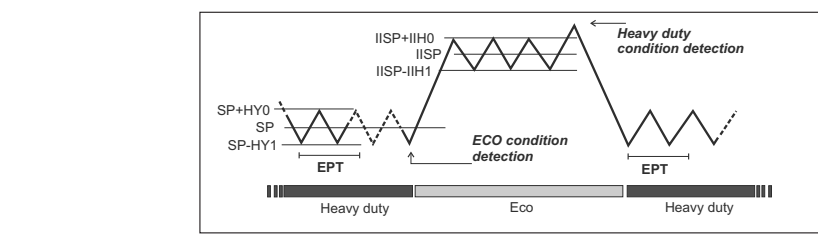
Resuming thermostatic cycle. When defrost is over, if DRN is greater than 0, all outputs will remain off for DRN minutes, in order for the ice to melt completely and the resulting water to drain.

4. CONFIGURATION PARAMETERS

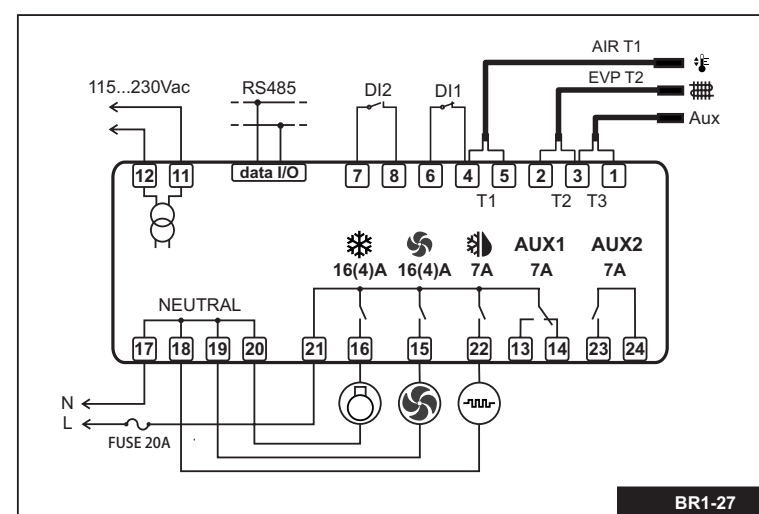
Access / Navigation / Modification diagrams and parameter table with columns PAR, RANGE, DESCRIPTION including SPL, SPH, SP, C-H, HY0, HY1, CRT.

Main parameter table with columns Parameter, Range, Description. Includes CT1, CT2, DFM, DFT, DFB, DH1, DH6, DLI, DTO, DTY, DSO, SOD, DPD, DRN, DDM, DDY, FID, FDD, FTO, FCM, FDT, FDH, FT1, FT2, FT3, ATM, ALA, AHA, ALR, AHR, ATI, ATD, ACC, IISM, IISL, IISH, IISP, IIH0, IIH1, IIDF, IIFC, ECS, EPT, SB, DSM, DAD.

Input/output and alarm parameters table. Includes CSD, D10, D1A, D20, D2A, LSM, LSA, STT, EDT, OA1, OA2, 2CD, OS1, T2, OS2, T3, OS3, AHM, AHT, TLD, TDS, AVG, SCL, SIM, ADR.



5. WIRING DIAGRAMS



6. TECHNICAL DATA

Power supply BR1-27...W 100-240Vac ±10%, 50/60Hz, 3W

Relay output max loads (240Vac)

Relay output max loads table with columns Output, Model, BR1-27...S..., BR1-27...Q...

Input NTC 10KΩ@25°C LAE Part No. SN4...

Measurement Range

-50...110°C, -58...230°F -50 / -9.9 ... 9.9 / 110°C

Measurement accuracy

<0.5°C within the measurement range

Real Time Clock battery

>150 hours; self-rechargeable

Operating conditions

-10 ... +50°C; 15%...80% r.H. Pollution degree 2

Approvals and Reference Norms

- RoHS 2011/65/UE - EN50082-1; EN55022 (Class B); - EN60730-1; EN60730-2-9;

