

# MOD: MD12/B5-R2

Production code: OI120PSVND97H

# Controllers for refrigerated cabinets, counters and islands







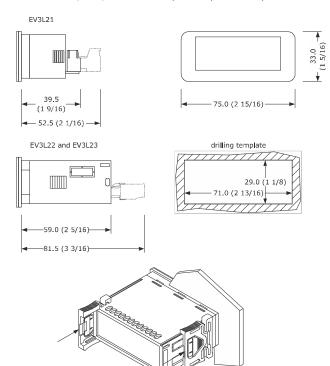
#### F FNGLISH

- Controllers for normal and low temperature units.
- Power supply 115 or 230 VAC (according to the model).
- Cabinet probe and evaporator probe (NTC).
- Door switch input.
- Compressor relay 16 A res. @ 250 VAC.

| Purchasing code | Relays | Probes (NTC) | Power supply |
|-----------------|--------|--------------|--------------|
| EV3L21N5        | 1      | 1            | 115 VAC      |
| EV3L21N7        | 1      | 1            | 230 VAC      |
| EV3L22N5        | 2      | 2            | 115 VAC      |
| EV3L22N7        | 2      | 2            | 230 VAC      |
| EV3L23N5        | 3      | 2            | 115 VAC      |
| EV3L23N7        | 3      | 2            | 230 VAC      |

#### 1 MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.



#### INSTALLATION PRECAUTIONS

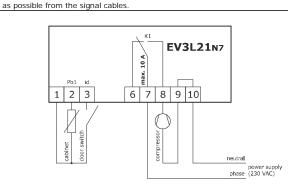
- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)
   Ensure that the working conditions are within the limits stated in the TECHNICAL
- SPECIFICATIONS section.

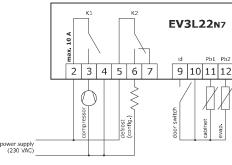
  Do not install the device close to heat sources, equipment with a strong magnetic field,
- in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

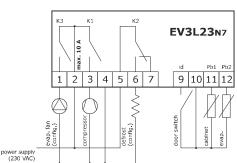
#### 2 ELECTRICAL CONNECTION



Use cables of an adequate section for the current running through them.
 To reduce any electromagnetic interference connect the power cables as far away







#### PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
  - If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the
  - Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS.
- Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

# FIRST-TIME Install following the instructions given in the section MEASUREMENTS AND INSTALLATION.

- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run.
- The test normally takes a few seconds, when it is finished the display will switch off.

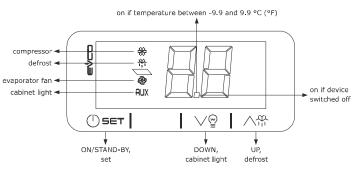
  Configure the device as shown in the section Setting configuration parameters.

| ı | Recommended configuration parameters for hirst-time use. |      |                                 |                          |  |  |
|---|--|------|---------------------------------|--------------------------|--|--|
| I | PAR.   | DEF. | PARAMETER                       | MIN MAX.                 |  |  |
| I | SP   | 0    | setpoint                        | r1 r2                    |  |  |
| I | P2   | 0    | temperature unit of measurement | 0 = °C 1 = °F            |  |  |
| I | d1   | 0    | defrost type                    | 0 = electric 1 = hot gas |  |  |

Then check that the remaining settings are appropriate; see the section CONFIGURA-TION PARAMETERS.

- . Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- Power up the device

#### USER INTERFACE AND MAIN FUNCTION:



#### .1 Switching the device on/off

1. Touch the ON/STAND-BY key for 3 s.

If the device is switched on, the display will show the cabinet temperature; if the display shows an alarm code, see the section *ALARMS*.

| LED | ON                | OFF                | FLASHING   |
|-----|-------------------|--------------------|--|
| *   | compressor on     | compressor off     | <ul><li>compressor protection active</li><li>setpoint setting active</li></ul> |
| *   | defrost active    | =                  | <ul><li>defrost delay active</li><li>dripping active</li></ul>                 |
| @   | evaporator fan on | evaporator fan off | evaporator fan stop active   |
| AUX | cabinet light on  | cabinet light off  | cabinet light on by digital input  |

If 30 s have elapsed without the keys being pressed, the display will show the " ${\bf Lo}^*$  label and the keypad will lock automatically.

# 4.2 Unlock keypad

Touch a key for 3 s: the display will show the label "Un".

# 4.3 Set the setpoint

- theck that the keypad is not locked.
- Touch the ON/STAND-BY key.

  Touch the UP or DOWN key within 30 s to set the value within the limits r1 and r2 (default "-40... 50")

  Touch the ON/STAND-BY key (or do not operate for 30 s).

# 4.4 Activate manual defrost

Check that the keypad is not locked.

Touch the UP key for 3 s.

If P4 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

# 4.5 Cabinet light on/off (if u1 or u2 = 2)

| ∨ହ | Touch the DOWN key. |
|----|---------------------|
|    |                     |

| Ш | 5                                    | 5 ADDITIONAL FUNCTIONS |   |  |  |
|---|--------------------------------------|------------------------|---|--|--|
| ļ | 5.1 View the evaporator temperature  |                        |   |  |  |
| , | Check that the keypad is not locked. |                        |   |  |  |
|   | 1.                                   | ∨₽                     | Touch the DOWN key for 4 s.   |  |  |
|   | 2.                                   | () SET                 | Touch the ON/STAND-BY key (or do not operate for 30 s) to exit the procedure. |  |  |
|   |                                      |                        |   |  |  |

# 6 SETTINGS 6.1 Setting configuration parameters

| 6.1 Setting configuration parameters                               |                 |   |  |  |  |
|--|-----------------|---|--|--|--|
| Check that the device is switched on and the keypad is not locked. |                 |   |  |  |  |
| 1.   | ⊕set            | Touch the ON/STAND-BY key for 6 s: once 3 s have elapsed the display will switch off, once 6 s have elapsed the display will show the label "PA". |  |  |  |
| 2.   | () SET          | Touch the ON/STAND-BY key again.  |  |  |  |
| 3.   |                 | Touch the UP or DOWN key within 30 s to set the PS value (default "-19").   |  |  |  |
| 4.   | () SET          | Touch the ON/STAND-BY key: the display will show the label "SP".  |  |  |  |
| 5.   |                 | Touch the UP or DOWN key to select a parameter.   |  |  |  |
| 6.   | ⊕set            | Touch the ON/STAND-BY key.  |  |  |  |
| 7.   | ₹ <del>**</del> | Touch the UP or DOWN key within 30 s to set the value.  |  |  |  |
| 8.   | () SET          | Touch the ON/STAND-BY key.  |  |  |  |
| 9.   | () SET          | Touch the ON/STAND-BY key for 3 s (or do not operate for 30 s) to exit the procedure.   |  |  |  |

#### 6.2 Restore the factory settings (default) and store customized settings as default

- Check that the factory settings are appropriate; see the section CONFIGURATION
 PARAMFIERS.

- the storing of customized settings overwrites the default

|   | Check that the device is switched on and the keypad is not locked. |                     |              |   |  |  |
|---|--|---------------------|--------------|---|--|--|
|   |  |                     |              | Touch the ON/STAND-BY key for 6 s: once 3 s have elapsed the    |  |  |
|   | 1.   | $\Pi \cup \Pi$      | SET          | display will switch off, once 6 s have elapsed the display will |  |  |
| ı |  | •                   |              | show the label "PA".  |  |  |
|   | 2.   | 9                   | SET          | Touch the ON/STAND-BY key again.                                |  |  |
|   | 3.   | <b>f</b>            |              | Touch the UP or DOWN key within 30 s to set "49".               |  |  |
|   | 4.   | La                  | сст І        | Touch the ON/STAND-BY key again: the display will show the la-  |  |  |
|   | 4.   SET   |                     | I            | bel "dF".   |  |  |
|   | 5.   | 5.   ( ) <b>SET</b> |              | Touch the ON/STAND-BY key again.                                |  |  |
|   | 6. <b>(</b>  |                     |              | Touch the UP or DOWN key within 30 s to set the value.          |  |  |
|   |  | VAL.                | DESCRIPTION  | NC  |  |  |
|   | 1 value to res   |                     | value to res | store the factory settings (default)                            |  |  |
|   | -2 value to sto  |                     | value to sto | ore customized settings as default                              |  |  |
|   | 7.   | 7. <b>ASET</b>      |              | Touch the SET key: the device will exit the procedure.          |  |  |
|   | 8.   | I ≙SET              |              | Touch the SET key 2 s before action 6. (or do not operate for   |  |  |
|   | 8.     = 5 = 1   |                     |              | 30 s) to exit the procedure beforehand.                         |  |  |
|   |  |                     |              |   |  |  |

| 6.              | 6. Touch the UP or DOWN key within 30 s to set the value. |                         |  |  |  |  |  |
|-----------------|---|-------------------------|--|--|--|--|--|
|                 | VAL. DESCRIPTION  |                         |  |  |  |  |  |
|                 | 1   | _                       |  | store the factory settings (default)                   |  |  |  |
|                 |   |                         |  | ore customized settings as default                     |  |  |  |
| 7               |   |                         |  | Touch the SET key: the device will exit the procedure. |  |  |  |
| 7.   ASET       |   |                         | -  |  |  |  |  |
| 8. <b>3 SET</b> |   | ·                       | Touch the SET key 2 s before action 6. (or do not operate for $30 \ s$ ) to exit the procedure beforehand. |  |  |  |  |
| 7               | CON   | FIGUR                   | ATION  | PARAMETERS   |  |  |  |
| Ω=              | N.  | PAR.                    | DEF.   | SETPOINT   | MIN MAX.   |  |  |
| ₽               | 1   | SP                      | 0  | setpoint   | r1 r2  |  |  |
|                 | N.  | PAR.                    | DEF.   | ANALOGUE INPUTS  | MIN MAX.   |  |  |
|                 | 2   | 01                      | 0  | cabinet probe offset                                   | -99 99 °C/°F                                     |  |  |
|                 | 3   | 02                      | 0  | evaporator probe offset                                | -99 99 °C/°F                                     |  |  |
|                 |   |                         |  | not available in EV3L21                                |  |  |  |
|                 | 4   | P2                      | 0  | temperature unit of measure-<br>ment                   | 0 = °C 1 = °F                                    |  |  |
| Q               | 5   | P4                      | 1  | enable evaporator probe                                | 0 = no 1 = yes                                   |  |  |
|                 | 6   | P8                      | 4  | not available in EV3L21 filter for cabinet temperature | 1 10   |  |  |
|                 |   |                         |  | display  | 1 = quick  |  |  |
|                 |   |                         |  |  | 4 = normal                                       |  |  |
|                 |   |                         |  |  | 7 = slow   |  |  |
| -               | N.  | PAR.                    | DEF.   | REGULATION   | 10= very slow                                    |  |  |
|                 | 7   | r0                      | -2   | setpoint differential                                  | -99 0 °C/°F symmetric                            |  |  |
| 32              | ′   | 10                      | -2   | setpoint differential                                  | 0 99 °C/°F asymmetric                            |  |  |
| 43              | 8   | r1                      | -40  | minimum setpoint                                       | -99 99 °C/°F                                     |  |  |
|                 | 9   | r2                      | 50   | maximum setpoint                                       | -99 99 °C/°F                                     |  |  |
| -               | N.  | PAR.                    | DEF.   | COMPRESSOR   | MIN MAX.   |  |  |
|                 | 10  | CO                      | 0  | compressor on delay after pow-                         | 0 99 s x 10                                      |  |  |
|                 | 10  | 0                       | "  | er-on  | O 44 S X 10                                      |  |  |
|                 | 11  | C1                      | 5  | delay between 2 compressor                             | 0 99 min   |  |  |
|                 |   |                         |  | switch-ons   |  |  |  |
|                 | 12  | C2                      | 3  | compressor off minimum time                            | 0 99 min   |  |  |
|                 | 13  | C4                      | 50   | percentage compressor on during                        | referred to the average time                     |  |  |
|                 |   |                         |  | cabinet probe alarm                                    | compressor on                                    |  |  |
|                 |   |                         |  |  | 0 On   |  |  |
|                 | N.  | DAD                     | DEE  | DEEDOCT  | On= 100 %  |  |  |
|                 | N.<br>14  | PAR.<br>d0              | DEF.   | DEFROST<br>automatic defrost interval                  | MIN MAX.   |  |  |
|                 | 14  | l do                    | °  | automatic demost interval                              | -99 1 min (for unit test)<br>1 99 h              |  |  |
|                 | 15  | d1                      | 0  | defrost type   | 0 = electric                                     |  |  |
|                 | 1/  | -10                     | 2  | not available in EV3L21                                | 1 = hot gas<br>-99 99 °C/°F                      |  |  |
|                 | 16  | d2                      | 2  | threshold for defrost end not available in EV3L21      | -99 99 °C/°F                                     |  |  |
|                 | 17  | d3                      | 30   | defrost duration                                       | 0 99 min   |  |  |
| ۵               | ' '   | l us                    | 30   | not available in EV3L21                                | if P4 = 1, maximum duration                      |  |  |
| •               | 18  | d7                      | 2  | dripping time  | 0 99 min   |  |  |
|                 |   |                         |  | not available in EV3L21                                |  |  |  |
|                 | 19  | d8                      | 0  | defrost relay status during drip-                      | 0 = not active                                   |  |  |
|                 |   |                         |  | ping   | 1 = active                                       |  |  |
|                 |   | not available in EV3L21 |  |  |  |  |  |
|                 | 20  | d9                      | 0  | compressor on consecutive time                         | 0 99 min   |  |  |
|                 |   |                         |  | for hot gas defrost                                    |  |  |  |
|                 |   | DAD                     | DEE  | not available in EV3L21                                | Adda Adday                                       |  |  |
|                 | N.<br>21  | PAR.                    | DEF.   | ALARMS   | MIN MAX.<br>-99 99 °C/°F                         |  |  |
|                 | 2   | A                       | -99  | threshold for low temperature alarm                    | -99 99 C/ F                                      |  |  |
|                 | 22  | A4                      | 99   | threshold for high temperature                         | -99 99 °C/°F                                     |  |  |
|                 |   | ***                     | ''   | alarm  | 77 77 67 1                                       |  |  |
| 80              | 23  | A5                      | -2   | high/low temperature alarms re-                        | -99 0 °C/°F absolute alarms                      |  |  |
|                 |   |                         |  | set differential                                       | 0 99 °C/°F alarms relative to                    |  |  |
|                 |   |                         |  |  | setpoint   |  |  |
|                 | 24  | A7                      | 2  | high/low temperature alarms de-                        | 0 99 min x 10                                    |  |  |
|                 |   |                         |  | lay  | 1 h after defrost                                |  |  |
|                 | N.  | PAR.                    | DEF.   | FANS not available in EV3L21                           | MIN MAX.   |  |  |
|                 | 25  | FO                      | 0  | evaporator fan mode during                             | 0 = on   |  |  |
|                 |   |                         |  | normal operation                                       | 1 = on if compressor on                          |  |  |
|                 |   |                         |  |  | 2 = thermoregulated (with                        |  |  |
|                 | -   |                         |  |  | F1   |  |  |
|                 | 26  | F1                      | -1   | threshold for evaporator fan op-                       | -99 99 °C/°F                                     |  |  |
| SQ              | 27  | F2                      | 0  | eration evaporator fan mode during                     | differential = 1 °C/2 °F<br>0 = off 1 = on       |  |  |
|                 | 27  | 12                      | "  | dripping   | 0 = 011 1 = 011                                  |  |  |
|                 | 28  | F3                      | 2  | evaporator fan off time                                | 0 99 min   |  |  |
|                 | 2   | F4                      | 30   | evaporator fan off time with                           | 0 99 s x 10                                      |  |  |
|                 |   |                         |  | compressor off   |  |  |  |
|                 | 30  | F5                      | 10   | evaporator fan on time with                            | 0 99 s x 10                                      |  |  |
|                 |   |                         |  | compressor off   |  |  |  |
|                 | N.  | PAR.                    | DEF.   | DIGITAL INPUTS   | MIN MAX.   |  |  |
|                 | 31  | iO                      | 0  | door switch input function                             | 0 = cabinet light on                             |  |  |
|                 |   |                         |  | options 0 and 2 not available                          | 1 = compressor + evapora-                        |  |  |
|                 |   |                         |  | in EV3L21  | tor fan off, cabinet light                       |  |  |
|                 |   |                         |  |  | on   |  |  |
|                 |   |                         |  |  | 2 = evaporator fan off, cabi-                    |  |  |
| •               | 22  | ;1                      | _  | door switch input activation                           | net light on                                     |  |  |
|                 | 32  | i1                      | 0  | door switch input activation                           | 0 = with contact closed<br>1 = with contact open |  |  |
|                 | 33  | i2                      | 30   | open door alarm delay; also reg-                       | -1 99 min  |  |  |
|                 |   |                         |  | ulation inhibition maximum time                        | -1 = disabled                                    |  |  |
|                 |   |                         |  | with door open   |  |  |  |
|                 | N.  | PAR.                    | DEF.   | DIGITAL OUTPUTS  | MIN MAX.   |  |  |
|                 | 34  | u1                      | 1  | auxiliary output 1 configuration                       | 0 = evaporator fan                               |  |  |
|                 |   |                         | '  | (relay K2)   | 1 = defrost                                      |  |  |
| 21              | L   | L                       | L  | not available in EV3L21                                | 2 = cabinet light                                |  |  |
|                 | 35  | u2                      | 0  | auxiliary output 2 configuration                       | 0 = evaporator fan                               |  |  |
|                 |   |                         |  | (relay K3)   | 1 = defrost                                      |  |  |
|                 |   |                         |  | not available in EV3L21 and                            | 2 = cabinet light                                |  |  |
|                 |   |                         |  | EV3L22   |  |  |  |
|                 | N.  | PAR.                    | DEF.   | SAFETIES   | MIN MAX.   |  |  |
| ~               | 36  | nS                      | 0  | compressor start-up number                             | 0 99 x 10,000                                    |  |  |
|                 | 37  | PS                      | -19  | password   | -99 99 min                                       |  |  |
| 1 -             | l   | I                       | I  | 1  | 0 = disabilitata                                 |  |  |

#### EVCO S.p.A. | EV3 L series | Instruction sheet ver. 1.0 | Code 1043L20I103 | Page 2 of 2 | PT 10/18 8 ALARMS COD. DESCRIPTION RESET REMEDIES P1 cabinet probe alarm automatic check probe integrity P2 evaporator probe alarm automatic - check electrical connection check A1 low temperature alarm automatic

| AH  | high temperatu                                  | re alarm        | automat     | ic  | check A4  |  |
|---|---|-----------------|-------------|---|---|--|
| id  | open door alarr                                 | m               | automatic   |   | check i0 e i1   |  |
|   |   |                 |             |   |   |  |
| 9   | TECHNICAL SP                                    | ECIFICATIO      | NS          |   |   |  |
|   | 6.0   |                 |             | ٠. ا  |   |  |
| Purpose of the control device  Construction of the control device |   |                 |             |   | ion controller  |  |
| Contai  |   | iti oi device   |             |   | in electronic device<br>, self-extinguishing            |  |
|   | ory of heat and fi                              | iro rosistanco  |             | Diack,  | , sell-extiliguishing                                   |  |
|   | rements   | ile resistance  |             | ם ו   |   |  |
|   | ixed screw termi                                | nal blocks: 75  | 0 x 33 0    | With r  | removable screw terminal blocks: 75.0 x                 |  |
|   | mm (2 15/16 x                                   |                 |             |   | x 52.5 mm (2 15/16 x 1 5/16 x 2 1/16                    |  |
|   | 1, 75.0 x 33.0 x                                |                 | ,           |   | r EV3L21, 75.0 x 33.0 x 81.5 mm (2                      |  |
|   | 2 5/16 in) other                                |                 |             | 15/16 x 1 5/16 x 3 3/16 in) otherwise                             |   |  |
|   | ing methods for                                 |                 | vice        | To be fitted to a panel, snap-in brackets pro-                    |   |  |
|   |   |                 |             | vided   |   |  |
| Degre   | e of protection p                               | provided by the | ne cover-   | IP65 (  | (front)   |  |
| ing   |   |                 |             |   |   |  |
|   | ction method                                    |                 |             |   |   |  |
| Fixed   | screw terminal                                  | blocks for wir  | es up to    | Remo  | vable screw terminal blocks for wires up                |  |
| 2,5 m   |   |                 |             |   | mm²; by request   |  |
|   | um permitted lei                                |                 | ection cabl |   |   |  |
|   | supply: 10 m (3                                 |                 |             |   | gue inputs: 10 m (32.8 ft)                              |  |
|   | inputs: 10 m (3                                 | -               |             |   | ll outputs: 10 m (32.8 ft)                              |  |
|   | ting temperature                                | !               |             |   | 0 to 55 °C (from 32 to 131 °F)                          |  |
|   | ge temperature                                  |                 |             |   | -25 to 70 °C (from -13 to 158 °F)                       |  |
| Opera   | ting humidity                                   |                 |             | 10 to   | ve humidity without condensate from                     |  |
| Polluti   | on status of the                                | control device  |             | 2   | 70 /0   |  |
| Confor  |   | control device  |             |   |   |  |
|   | 2011/65/CE                                      | WEE             | E 2012/19   | /FU   | REACH (EC) Regulation                                   |  |
| 110110  | 2011/00/02                                      | 11122           | 2012/1/     | , 20  | 1907/2006   |  |
| EMC 2   | 014/30/UE                                       |                 |             | LVD 2   | 2014/35/UE  |  |
| Power   | supply  |                 |             | 230 VAC (+10% -15%), 50/60 Hz (±3 Hz),                            |   |  |
|   |   |                 |             |   | 3 VA isolated   |  |
| Earthi  | ng methods for t                                | he control dev  | rice        | None  |   |  |
| Rated   | impulse-withstar                                | nd voltage      |             | 4 KV  |   |  |
| Over-v  | oltage category                                 |                 |             | Ш   |   |  |
| Softwa  | are class and stru                              | ucture          |             | А   |   |  |
| Analog  | gue inputs                                      |                 |             | - 1 in EV3L21 (cabinet probe)                                     |   |  |
|   |   |                 |             | - 2 in EV3L22 and EV3L23 (cabinet probe                           |   |  |
|   |   |                 |             | and evaporator probe)   |   |  |
| NITO  |   |                 |             | for NTC probes  |   |  |
| NTC p   | robes   | Sensor type     | + field     | B3435 (10 KΩ @ 25 °C, 77 °F)                                      |   |  |
|   |   | Measuremen      | rneid       | From -40 to 90 °C (from -40 to 194 °F)                            |   |  |
|   |   | Resolution      |             | - 0.1 °C (0.1 °F) between -9.9 and 9.9<br>- 1 °C (1 °F) otherwise |   |  |
| Digital   | inputs  |                 |             | 1 dry contact (door switch)                                       |   |  |
| Dry co  |   | Contact type    |             | 5 VDC, 1.5 mA   |   |  |
| ,   |   | Protection      |             | None  |   |  |
| Digital   | outputs   |                 |             | - 1 in EV3L21 (K1)  |   |  |
| , i   | ·   |                 |             | - 2 in EV3L22 (K1 and K2)   |   |  |
|   |   |                 |             | - 3 in EV3L23 (K1, K2 and K3)                                     |   |  |
|   |   |                 |             | electro-mechanical relays   |   |  |
|   |   |                 |             | The maximum current allowed on the                                |   |  |
|   |   |                 |             |   | s is 10 A   |  |
|   | Relay K1 (compressor):                          |                 |             |   | 16 A res. @ 250 VAC                                     |  |
|   | Relay K2 (auxiliary output 1, default defrost): |                 |             |   | , 8 A res. @ 250 VAC                                    |  |
|   | Relay K3 (auxiliary output 2, default evapo-    |                 |             |   | 5 A res. @ 250 VAC                                      |  |
|   | rator fan):                                     |                 |             | т   | 1   |  |
|   | or Type 2 Actio                                 |                 | 2           | Type 1  | 1   |  |
|   | Additional features of Type 1 or Type 2 ac-     |                 |             | С   |   |  |
| Displa  | Me  |                 |             | 2 414   | its custom display 17 mm (11/14 in)                     |  |
| Displa  | ys  |                 |             | _   | its custom display 17 mm (11/16 in) with function icons |  |
|   |   |                 |             | I mgm,  | with function leons                                     |  |
|   |   |                 |             |   |   |  |



N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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