EAGLE Controller

MOUNTING INSTRUCTIONS

0A: INFO!

EAGLE CONTROLLER MOUNTING INSTRUCTIONS (MU1Z-0970GE51)

FOR MORE INFO, SEE:
EAGLE CONTROLLER
INSTALLATION & COMMISSIONING INSTRUCTIONS (EN1Z-0970GE51),
EAGLE CONTROLLER
3rd-PARTY SOFTWARE LICENSES
(EN2Z-0991GE51), AND
CLEAHMI21 External HMI
MOUNTING INSTRUCTIONS (MU1Z-0988GE51).

0B: DIMENSIONS CLEA20xBxx (WITHOUT COVER)

DIMENSIONS
CLEA20xBxx
(WITHOUT COVER MVC-80-AC1)
0C: DIMENSIONS CLEA20xxBxx (WITH COVER)

DIMENSIONS
(WITH MVC-80-AC1)
1A. DIN RAIL MOUNTING

1B. DIN RAIL DISMOUNTING

ALTERNATIVE "A"

ALTERNATIVE "B"

2. WALL MOUNTING

3. MOUNTING STRAIN RELIEF

MVC-40-AC3

CLICK!

HEAD SCREW

max. 12W

max. 9 mm
4. MOUNTING/DISMOUNTING COVERS

5A. PANEL/DOOR MOUNTING

5B. PANEL/DOOR DISMOUNTING

6A. WIRING
6B. WIRING

WARNING! Terminals 5...18 (BO1...BO8) may be connected to low voltage or line voltage, but it is NOT permitted to combine low voltage and line voltage within the same block (BO1...BO4 and BO5...BO8, respectively).

RISK OF ELECTRIC SHOCK OR EQUIPMENT DAMAGE!
EAGLE CONTROLLER - MOUNTING INSTRUCTIONS

SPECIFICATIONS OF CONTROLLER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>19 … 29 VAC, 50/60 Hz, or 20 … 30 VDC</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>typically dc: 5 W, max. 6 W; typically ac: 9 VA, max. 11 VA</td>
</tr>
<tr>
<td><strong>Current consumption</strong></td>
<td>typically dc: 210 mA, max. 240 mA; typically ac: 370 mA, max. 410 mA</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>0 … 40 °C (wall-mounting) 0 … 50 °C (cabinet/door mounting)</td>
</tr>
<tr>
<td><strong>Storage temp.</strong></td>
<td>-20 … +70 °C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>5 … 95% r.h. non-condensing</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>See pictures 0B, 0C.</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP20 (mounted on walls, with two accessory MVC-80-AC1 covers)</td>
</tr>
<tr>
<td></td>
<td>IP30 (mounted in cabinet doors, with accessory MVC-80-AC2)</td>
</tr>
<tr>
<td><strong>Fire class</strong></td>
<td>V0</td>
</tr>
</tbody>
</table>

 Specification of controller

<table>
<thead>
<tr>
<th><strong>Block 1</strong></th>
<th><strong>Block 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>BO1…3</td>
<td>BO4</td>
</tr>
<tr>
<td>BO5…8</td>
<td></td>
</tr>
<tr>
<td><strong>Contact volt. AC</strong></td>
<td>5…253 V</td>
</tr>
<tr>
<td><strong>Contact volt. DC</strong></td>
<td>5…30 V</td>
</tr>
<tr>
<td><strong>Max. contact current AC (res.)</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>Max. contact current AC (induct.)</strong></td>
<td>0.3 A*</td>
</tr>
<tr>
<td><strong>Max. contact current AC (induct.)</strong></td>
<td>2 A**</td>
</tr>
<tr>
<td><strong>Max. contact current DC</strong></td>
<td>3 A</td>
</tr>
<tr>
<td><strong>Min. load</strong></td>
<td>100 mA / 5 Vdc</td>
</tr>
<tr>
<td></td>
<td>100 mA / 5 Vdc</td>
</tr>
</tbody>
</table>

* typically 250,000 cycles; ** typically 50,000 cycles

NOTE: The total max. sum load for all binary outputs (BO1…8) equals 14 A.

NOTE: Binary output 4 supports the switching of high in-rush currents. The max. allowed switch current is 80 A for a duration of max. 20 ms.

CABLE SPECS, PUSH-IN TERMINALS

<table>
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<th>Specification</th>
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<tbody>
<tr>
<td><strong>plug gauge</strong></td>
<td>solid conductor H05(07) V-K 0.2 … 1.50 mm²</td>
</tr>
<tr>
<td><strong>stranded conductor H05(07) V-K</strong></td>
<td>stranded conductor with wire end ferrules (w/o plastic collar)</td>
</tr>
<tr>
<td><strong>stripping length</strong></td>
<td>10.0 +1.0 mm</td>
</tr>
</tbody>
</table>

STANDARDS, APPROVALS, ETC.

Purpose of the device is: OPERATING CONTROL and multi-functional non-safety control intended for HVAC in home (residential, commercial, and light-industrial) environments

Device meets BTL, AMEV AS-A, EN 60730-1, EN 60730-2-9, UL60730, and UL916.

Independently mounted electronic control unit with fixed wiring.

Shock protection: Class II.

Pollution degree: 2.

Installation: Class 3

Rated impulse voltage: 330 V for SELV, 2500 V for relay outputs

Type of action: Type 1.C.

Software Class: A.

Ball-pressure test temperature: housing parts > 75 °C terminals > 125 °C

NOTE: Keep AC mains supply/load cables separate from signal wiring!

WEE DIRECTIVE

WEEE: Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in an appropriate recycling center.
- Do not dispose of the device with the usual domestic refuse.
- Do not burn the device.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

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Subject to change without notice

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