Terminal Unit Valves Actuators

Description

The AVC series provides floating or proportional control in HVAC applications. The compact design of this actuator makes it suitable for installation in confined spaces, such as fan coil, chilled ceiling, manifolds, etc. The AVC series actuator is designed for field mounting onto VC terminal unit valves. Due to the innovative concept of different strokes setting the AVC can be installed over most of the terminal unit valve in the market.

Technical specification

- **Power supply**: 230 V AC or 24 V AC/DC, 50-60 Hz
- **Power consumption**: 1.5 W for 24 V AC/DC, 2.2 W for 230 V AC
- **Signal input**: 0 (2)...10 V / 0 (4)...20 mA selectable via dip-switches
- **Force**: 120 N +30% -20%
- **Action**: floating and proportional
- **Max stroke**: 6.3 mm
- **Actuator speed**: 8 sec/mm
- **Connection**: Metal ring M30 x 1.5
- **Cable**: 1.5 m cable length 3 x 0.35 mm²
- **Maintenance**: Free
- **Status indications**: Internal LED
- **Protection degree**: IP43
- **Working range RH**: non-condensing
- **Working range °C**: 0...+50°C
- **Storage temperature**: -20...+65°C
- **Standards**: CE-conformity, RoHS

<table>
<thead>
<tr>
<th>Models</th>
<th>Power supply</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC230</td>
<td>230 V AC</td>
<td>floating</td>
</tr>
<tr>
<td>AVC24</td>
<td>24 V AC</td>
<td>floating</td>
</tr>
<tr>
<td>AVC24M</td>
<td>24 V AC/DC</td>
<td>proportional</td>
</tr>
</tbody>
</table>

Dimensions

- Height: 79.5 mm
- Width: 49 mm
- Depth: 80 mm
### Electrical wiring

- **AVC24**: BLK RED ORN
  - ~ 24VAC

- **AVC230**: BLU RED ORN
  - N L 230VAC

- **AVC24M**: BLK RED GRY
  - ~ 24VAC

### LED indicator

- **AVC24**: LED
  - Green • Verde
  - Moving to Position • In movimento verso la posizione
  - End stroke reached • Fine corsa raggiunto

- **AVC230**: LED
  - Green • Verde
  - Moving to Position • In movimento verso la posizione
  - Position reached • Posizione raggiunta

- **AVC24M**: LED
  - Red • Rosso
  - 4-20mA / 2-10 VDC
  - Failure signal loss • Mancanza di segnale

### Settings for proportional version

- **UMES**: Upper Mechanical End Stroke
- **LMES**: Lower Mechanical End Stroke

<table>
<thead>
<tr>
<th>Signal Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA</td>
<td>0</td>
</tr>
<tr>
<td>RF</td>
<td>1</td>
</tr>
<tr>
<td>LN</td>
<td>-0.5VDC</td>
</tr>
<tr>
<td>E4%</td>
<td>0-5VDC</td>
</tr>
<tr>
<td>VDC</td>
<td>0-5VDC</td>
</tr>
<tr>
<td>mA</td>
<td>0-20mA</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>UMES Value</th>
<th>LMES Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8 mm</td>
<td>14.5 mm</td>
</tr>
<tr>
<td>5.3 mm</td>
<td>6.2 mm</td>
</tr>
<tr>
<td>5.8 mm</td>
<td>8.2 mm</td>
</tr>
</tbody>
</table>

*The contents are subject to revision or change without notice.*