FESTO

Motor cable
NEBM-SM12G8-E-...-Q5-LE6

1. Applicable documents
All available documents for the product ➔ www.festo.com/pk

2. Intended use
Connection of motor EMMS-ST to a suitable controller

3. Design

4. Pin allocation

Field device side

Controller side

5. Technical data
NEBM-SM12G8-E-...-Q5-LE6

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable composition</td>
<td>6x0.34</td>
</tr>
<tr>
<td>Operating voltage range DC</td>
<td>0 ... 72 V</td>
</tr>
<tr>
<td>Cable diameter</td>
<td>6.2 mm</td>
</tr>
<tr>
<td>Cable bending radius</td>
<td></td>
</tr>
<tr>
<td>Fixed cable installation</td>
<td>≥ 31 mm</td>
</tr>
<tr>
<td>Flexible cable installation</td>
<td>≥ 62 mm</td>
</tr>
<tr>
<td>Mounting space</td>
<td>124 mm</td>
</tr>
<tr>
<td>Degree of protection in mounted status</td>
<td>IP65</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td></td>
</tr>
<tr>
<td>Fixed cable installation</td>
<td>−40 ... +80 °C</td>
</tr>
<tr>
<td>Flexible cable installation</td>
<td>−5 ... +80 °C</td>
</tr>
<tr>
<td>Cable sheath material</td>
<td>TPE-U(PUR)</td>
</tr>
</tbody>
</table>

6. Mounting
- Clamp the screened connection [1] into the spring clip of the controller.

7. Mounting cables in an energy chain
1. Lay the chain out lengthwise.
2. Place the cables in the chain, making sure they are not twisted.
3. Separate cables from each other through separator/drill holes.
4. Do not connect cables together.
5. Comply with space X. X > 10 % of the cable diameter D.
   With vertically hanging chain, increase the space X.

6. Align chain in the operating position.
   ➔ The bending radius of the cables is at least R
   ➔ Cables are freely movable in the bending radius KR of the energy chain
   ➔ Cables are not forced through the chain.

7. Mount chain (➔ corresponding assembly instructions).
8. Fasten cables:
   - For short energy chains, fasten at both ends of the chain (➔ Fig. 1)
   - For long, sliding energy chains, fasten only at the moment compensator end (➔ Fig. 2).
9. Do not move cables up to the fastening point.
   ➔ Mounting space A between the fastening point and the bending movement is maintained.

Fig. 1

Fig. 2

Note
Chain break.
Damages to cables.
- Replace cables.

Note
Malfunction and material damage due to vertically hanging cables.
The cables stretch.
- Regularly check the length of the cables.
- Readjust the cables if required.