Solenoid coil M.E35/16 x 40
to VDE 0580
Protection class IP65/IP67

DESCRIPTION
The slip-on solenoid coil M.S35/16 x 40 is available with different types of electric connections. The AC voltage type incorporates a rectifier. The available AC voltages are listed in the type code section. The construction corresponds to standard VDE 0580. The steel housing is zinc-nickel-coated as standard.

FUNCTION
In combination with the corresponding armature tube the function of an on-off solenoid or proportional solenoid will be obtained.

TYPE CODE
Metal housing, square
Connection execution
Connector socket EN175301-803/ISO4400
Connector socket AMP Junior-Timer
Connector Deutsch DT04-2P
Coil execution
Internal coil diameter 16 mm
Coil length 40 mm
Voltage
Direct current
Nominal voltage
12 VDC
24 VDC
Alternating current
Nominal voltage
115 VAC
230 VAC
Standard
With pressure compensation
Special screw clamp
Screw clamp and electric wiring
Design-Index (Subject to change)

SPECIFICATIONS
Coil winding
min. H (180°C)
insulation class
Protection class
depending on the connector version
IP65 or IP67 according to EN 60 529
(If correctly mounted)
Relative duty factor
100 % ED / 5 min
when mounted on armature tube and valve
Ambient temperature
See temperature curve
Nominal voltage range
10 – 250 VDC
24 – 250 VAC
Corrosion protection
Salt spray test in accordance with
EN ISO 9227 > = 1000 hours

DUTY FACTOR
Ambient temperature in °C
Voltage in %
Duty factor in %

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Duty factor at nominal voltage</th>
<th>Duty factor at 110 % nominal voltage</th>
<th>Max. voltage in % for 100 % duty factor</th>
<th>Min. voltage in % for proportional limiting current at 100 % duty factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 VDC</td>
<td>19,5</td>
<td>20,5</td>
<td>20</td>
<td>16,8</td>
</tr>
<tr>
<td>24 VDC</td>
<td>20,5</td>
<td>20</td>
<td>20</td>
<td>16,8</td>
</tr>
<tr>
<td>115 VAC</td>
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<td>20</td>
<td>20</td>
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</tr>
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<td>20</td>
<td>20</td>
<td>20</td>
<td>16,8</td>
</tr>
</tbody>
</table>

SAFE OPERATION
Caution: To avoid overheating the coil may only be energised when mounted on an armature tube and valve.

NOTE!
The effective heat emissions depends on the installation conditions (heat emission surface, air circulation, etc.), these influence the described area of application.
Execution: M S35/16x40-…

- 3-pole 2 P+E
- DC- and AC-execution available
- Connector socket plastic
- Protection class IP65

With corresponding mating connector (not included in delivery) and professional assembly.

Execution: M S35/16x40-…

- 2-pole 2P
- DC-execution available
- only for $U_n \leq 75$ VDC
- Connector socket plastic
- Protection class IP65

With corresponding mating connector (not included in delivery) and professional assembly.

Execution: M S35/16x40

- 2-pole 2P
- DC-execution available
- only for $U_n \leq 75$ VDC
- Protection class IP 67 and 69 K

With corresponding mating connector (not included in delivery) and professional assembly.

Execution: M S35/16x40-…

- 2-pole 2P (2x 0.25 mm²) Radox 155
- Cable length 500 mm
- DC-execution available
- only for $U_n \leq 75$VDC
- Protection class IP65

With professional assembly.
Execution: M S35/16 x 40-... M209

- 2-pole
- DC-version available up to 28 VDC
- Screw clamp plastic
- Printed circuit board protected with conformal coating

Execution: M S35/16 x 40-... M35

- With pressure equalising bore for underwater applications in oil bath
- Oil tank separated from water by a membrane
- With connection type «D», «L», «X»
- DC-execution available

Attention:
In case of the connection execution «D» only plugs with the additional designation «ZZ3» must be utilised (not included in the scope of supply of the solenoid)