FAMILY D - DS 40
SINGLE COIL SOLENOID FOR INTERMITTENT DUTY

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>12 V DC 24 V DC</td>
</tr>
<tr>
<td>Pull current</td>
<td>25 A 11 A</td>
</tr>
<tr>
<td>Duty service</td>
<td>Intermittent</td>
</tr>
<tr>
<td>Stroke</td>
<td>40 mm</td>
</tr>
<tr>
<td>Force at starting</td>
<td>1.7 Kg</td>
</tr>
<tr>
<td>Windings insulation class</td>
<td>H (180° C)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-40° C ÷ 120° C</td>
</tr>
<tr>
<td>Weight</td>
<td>0.74 Kg</td>
</tr>
</tbody>
</table>

OPERATION
The single coil Elettrostart solenoids are for intermittent duty providing high FORCE-STROKE pick-up. These solenoids are used to stop diesel engines when energized by actuating the fuel supply lever. The solenoid is de-energized when the engine is running, only in the stop phase it is energized cutting off the fuel flow. Due to its high operating power the energized time must not exceed one minute, while the de-energized time between two energizing phases must be long enough for the solenoid to cool down.

AVAILABLE OPTIONS
The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

<table>
<thead>
<tr>
<th>Versions</th>
<th>Voltages</th>
<th>Circuits</th>
<th>Brackets</th>
<th>Optional Springs</th>
<th>Electrical connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4</td>
<td>1 = 12 V DC 2 = 24 V DC</td>
<td>1 = Series D</td>
<td>A</td>
<td>M1</td>
<td>Standard Faston</td>
</tr>
<tr>
<td>DS4</td>
<td>pull-push action</td>
<td></td>
<td>B</td>
<td>M2</td>
<td>F = Cables</td>
</tr>
</tbody>
</table>

COSTRUZIONI ELETTROMAGNETICHE INDUSTRIALI
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ELECTRIC CIRCUITS FOR DIESEL ENGINES

**SERIES D**

**INTERMITTENT**

ELECTRIC CIRCUIT FOR INTERMITTENT DUTY

The solenoid connection is not conditioned by the polarity (+ and -).

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**ELECTRICAL CONNECTIONS**

- **BY FASTON**
  - FASTON CONNECTIONS
- **BY CABLES**
  - RED CABLES

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**ACCESSORIES WITH M6 THREAD**

- **P6** THREADED DOWEL
  - L = 45 mm
- **PW6** THREADED DOWEL
  - M6 - 1/4 UNF
  - L = 38 mm
- **CLE6** UNI CLEVIS
- **SM6** AXIAL ARTICULATED JOINT
  - Ø 6
  - 30°
  - L = 200 mm
- **AM6** AXIAL ARTICULATED JOINT
- **IM6** 90° ARTICULATED JOINT

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**OPTIONAL SPRINGS**

<table>
<thead>
<tr>
<th>INTERNAL SPRING 4M1</th>
<th>INTERNAL SPRING 4M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE DIAMETER SPRING 1</td>
<td>WIRE DIAMETER SPRING 1.2</td>
</tr>
<tr>
<td>Kg 0.4 at 25mm</td>
<td>Kg 0.9 at 25mm</td>
</tr>
<tr>
<td>Kg 1.5</td>
<td>Kg 3.0</td>
</tr>
</tbody>
</table>

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**EXAMPLE OF APPLICATION**

**FOR STOP**

ENGINE WITH INJECTION PUMP NORMALLY OPEN

ENGINE SHUTDOWN BY SOLENOID ENERGIZING INTERMITTENT DUTY

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