Volume reduced

Baumüller expands its range of sizes of three-phase synchronous motors DSDI 36 and 28 with integrated electronics.

With even smaller options for the compact drives which allow for a further reduction of the fitting space, Baumüller paves the way for new machine designs. The DSDI is a highly dynamic servo drive for applications with high demands on compactness as well as acceleration capacity and best start-stop characteristics.
Baumüller extends the power range of the three-phase synchronous motors with integrated electronics DSDI 028/036 by absolute rotary encoders

- Usable at supply voltages from 9 to 60 VDC
- Selectable operating modes:
  - Positioning control (scanning time 2000 ms) with 4096 position values per revolution (without absolute rotary encoder in the standard configuration)
  - 4Q speed control (scanning time 250 ms)
  - Current control (scanning time 125 ms)
- Integrated electronics features protective overvoltage, undervoltage, and overtemperature monitoring functions
- Integrated MPU (Motion Process Unit) freely programmable up to 1500 lines in Phyton script
- 5 digital inputs, 2 digital outputs, and 1 analog input available
- Input/output programming through MPU enables the following functionalities:
  - PLC
  - Brake actuation,
  - Analog set value setting
  - Selectable homing modes
- Pluggable electrical connections
- Integration into a control structure by:
  - Connection via field buses CANopen and PROFIBUS
  - Programming sequence actuation via digital I/Os
  - Analog set value setting ±10 V
  - Or communication via an USB interface of a notebook (virtual COM port)
- Integrated electronics options: CAN adapter, USB for parameterization and programming, external ballast module with integrated ballast resistor
- Motor options: Degree of protection IO65, brake, gearing
- Option extensions: Optical, absolute rotary encoders (selectable resolutions 12, 13, 14, 17 bit ST).
  - Optical, absolute rotary encoders with multiturn gearing (selectable resolutions 13 bit ST + 12 bit MT or 17 bit ST + 12 bit MT)

### Technical data

Example for supply voltage 48VDC

<table>
<thead>
<tr>
<th></th>
<th>DSDI–028S</th>
<th>DSDI–036S</th>
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</thead>
<tbody>
<tr>
<td>Uzk [VDC]</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>( n_n ) [min⁻¹]</td>
<td>3000</td>
<td>3000</td>
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<tr>
<td>( P_n ) [W]</td>
<td>95</td>
<td>220</td>
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<tr>
<td>( M_n ) [Nm]</td>
<td>0.33</td>
<td>0.7</td>
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<tr>
<td>( I_n ) [A]</td>
<td>5.5</td>
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Subject to change.