PumpDrive PumpDrive Eco, PumpDrive R – Speed Control System

Applications:
- Heat generation/distribution
- Water supply systems
- Water extraction/withdrawal
- Water treatment/conditioning
- Water distribution/transport
- Refrigeration/distribution
- Water treatment
- Fluid transport
- Cooling lubricant distribution
- Service water supply
- Waste water transport

More information:
www.ksb.com/products
PumpDrive  PumpDrive Eco, PumpDrive R – Speed Control System

- **Energy-efficient pump operation**
  - High-efficiency unit in combination with KSB SuPremE® motor and PumpMeter
  - Integrated multiple pump operation for parallel operation of up to 6 pumps
  - Dynamic pressure compensation function for estimating pipe friction losses and compensating pressure losses

- **Operating reliability**
  - Characteristic curve control to avoid operation in impermissible operating range
  - Flow rate estimation for more process reliability
  - Functions package for the special requirements in waste water applications (PumpDrive only)
  - Full redundancy by dual pump management (2 x 100% or 2 x 50%)

- **Flexibility**
  - Functions package for the special requirements in pressure boosting applications (PumpDrive / PumpDrive Eco only)
  - Control of asynchronous motors as well as synchronous reluctance motors
  - Several mounting options: Motor mounting (PumpDrive / PumpDrive Eco only), wall mounting and cabinet mounting
  - Various field bus modules

- **Ease of commissioning**
  - The commissioning wizard guides the user through all main commissioning parameters.
  - The customer's system data is already saved in the device: pre-set at the factory.
  - Ample space for cable connection
  - The pre-assembled PumpMeter can easily be joined to PumpDrive / PumpDrive Eco with a M12 plug-type connector

- **Ease of operation**
  - Convenient remote control with the KSB FlowManager app, also for PumpDrive / PumpDrive Eco installed in places that are difficult to access.

### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Mains voltage</td>
<td>1~ 230 V AC +/- 15 % (0.55 and 1.1 kW)</td>
</tr>
<tr>
<td></td>
<td>3~ 380 V AC -10 % to 480 V AC + 10 %</td>
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<td>Voltage difference between the three phases</td>
<td>± 2% of the supply voltage</td>
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<tr>
<td>Mains frequency</td>
<td>50 to 60 Hz ± 2 %</td>
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<tr>
<td>Mains types</td>
<td>1 ~, TN-S, TN-CS, TN-C, TT and IT mains (to IEC/EN 60364)</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP 55 (to EN 60529)</td>
</tr>
<tr>
<td><strong>PumpDrive</strong></td>
<td>0.37 – 55 kW; 3~ Variant</td>
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<tr>
<td><strong>PumpDrive Eco</strong></td>
<td>0.55 kW / 1.1 kW; 1~ Variant</td>
</tr>
<tr>
<td><strong>PumpDrive R</strong></td>
<td>0.37 kW – 11 kW; 3~ Variant</td>
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<td></td>
<td>PumpDrive R (cabinet mounting and wall mounting: 0.37 kW – 400 kW (up to 1.4 MW on request); 3~ Variant</td>
</tr>
<tr>
<td>In-service ambient temperature range</td>
<td>-10 °C to +50 °C</td>
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- **Easy communication via external Bluetooth gateway (PumpDrive / PumpDrive Eco only)**
  - External Bluetooth interface enables communication with smartphones (iPhone and Android) or notebooks
  - Can simply be plugged onto the service interface of device
  - Additional interface for mini-USB cable for communication with notebook or for battery charging

- **I/O extension board**
  - Profibus DP
  - Modbus RTU
  - LON Profil 1.0 (PumpDrive only)
  - BACnet MS/TP
  - Profinet

- **Master switch** (PumpDrive only)

- **Wireless module**

- **M12 module**

- **App Store Google Play Store**
  - Profibus DP
  - Modbus RTU
  - LON Profil 1.0 (PumpDrive only)
  - BACnet MS/TP
  - Profinet