



## Z80-D460.02 K3

### Pneumatic direct change

Item no. **10304015**

HF-Spindle for high-speed milling, -grinding, -drilling, -engraving

#### Bearings

|                           |                  |
|---------------------------|------------------|
| Hybrid ball bearing (pcs) | 2                |
| Lifetime lubricated       | maintenance free |

#### Motor

|  |   |
|--|---|
| Motor technology                         | 3-phase asynchronous drive<br>(no brushes or sensors) |
| Frequency                                | 1.000 Hz  |
| Motor poles (pairs)                      | 1   |
| Rated rotation speed                     | 60.000 rpm  |
| Acceleration/braking value<br>Per second | 10 000 rpm<br>(other values by consultation)          |

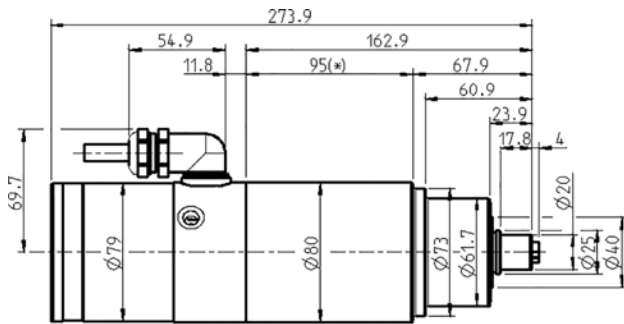
#### Power values

##### Liquid cooled

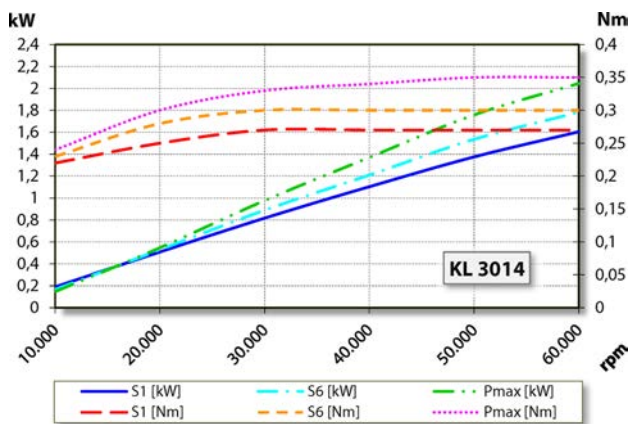
|             | Pmax./5s | S6-60% | S1-100% |      |
|-------------|----------|--------|---------|------|
| Rated power | 2        | 1,8    | 1,6     | [kW] |
| Torque      | 0,35     | 0,3    | 0,27    | [Nm] |
| Voltage     | 198      | 198    | 199     | [V]  |
| Current     | 10       | 8,5    | 7,5     | [A]  |

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Dimensions



Performance Diagram  
Liquid cooled

Measurement of power is funded by in-house testing.

**Characteristics**

|   |                                     |
|---|-------------------------------------|
| Speed sensor                                | Differential magneto resistor (TTL) |
|   | Number of signals = 6               |
| Motor protection                            | PTC 160°C                           |
| Housing                                     | Stainless steel                     |
| Housing diameter                            | 80 / 62 mm                          |
| Cooling                                     | Liquid cooled                       |
| Ambient temperature                         | + 10°C ... + 45°C                   |
| Sealing air                                 |                                     |
| Protection category (sealing air turned on) | IP54                                |
| Tool change                                 | Pneumatic direct change             |
| Collet type                                 | 10/5°                               |
| Clamping range up to                        | 8 mm                                |
| Clockwise                                   |                                     |
| Connection                                  | Cable length 3 m                    |
| Weight                                      | ~ 6,1 kg                            |
| Inner taper run out                         | < 1 μ                               |