



S80-M440.04 S5

Manual tool change

Item no. **10504071**

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

Bearings

| | |
|---------------------------|------------------|
| Hybrid ball bearing (pcs) | 3 |
| Lifetime lubricated | maintenance free |

Motor

| | |
|--|---|
| Motor technology | 3-phase asynchronous drive (no brushes or sensors) |
| Frequency | 1.333 Hz |
| Motor poles (pairs) | 2 |
| Rated rotation speed | 40.000 rpm |
| Acceleration/braking value Per second | 10 000 rpm (other values by consultation) |

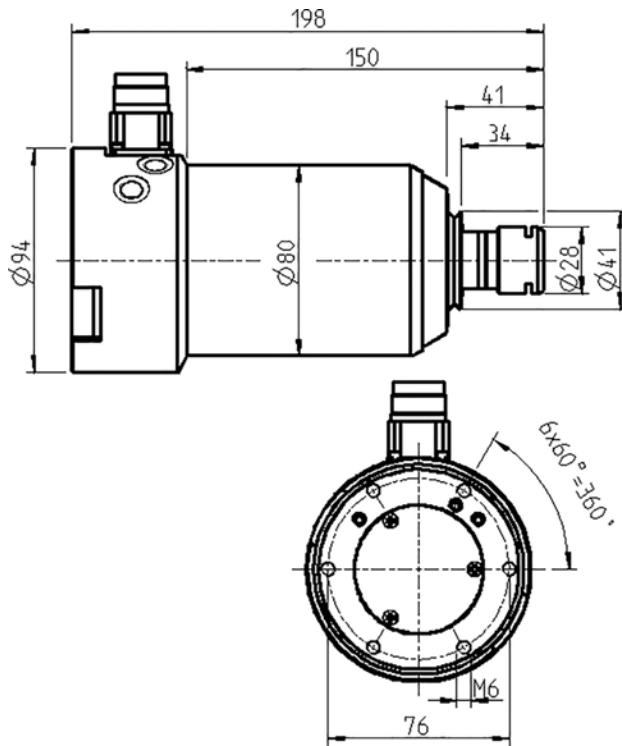
Power values

Liquid cooled

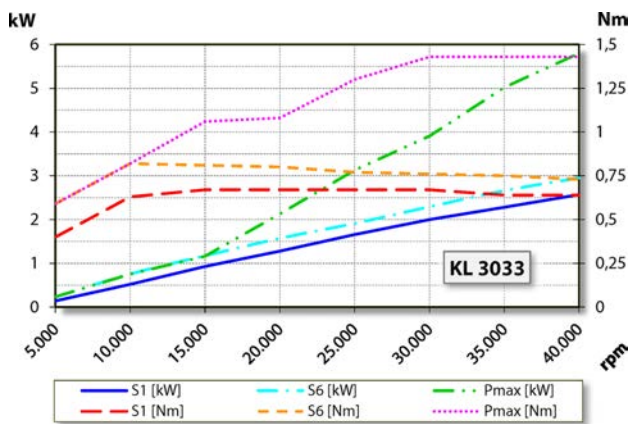
| | Pmax./5s | S6-60% | S1-100% | |
|-------------|----------|--------|---------|------|
| Rated power | 5,8 | 3 | 2,6 | [kW] |
| Torque | 1,43 | 0,82 | 0,67 | [Nm] |
| Voltage | 330 | 270 | 260 | [V] |
| Current | 19 | 11 | 10 | [A] |

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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/aluminium |
| Housing diameter | 80 mm |
| Mount | taper adapter |
| Cooling | Liquid cooled |
| Ambient temperature | + 10°C ... + 45°C |
| Sealing air | |
| Protection category (sealing air turned on) | IP54 |
| Tool change | Manual tool change |
| Collet type | ER 20 |
| Clamping range up to | 13 mm (33/64") |
| Clockwise | |
| Coupler plug | 9-pin (SpeedTEC) |
| Weight (without taper) | ~ 5,5 kg |
| Inner taper run out | < 1 μ |