



Z45-M160.02 S5

Manual tool change

Item no. **10201036**

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 | 1.000 Hz |
| Motor poles (pairs) | 1 |
| Rated rotation speed | 60.000 rpm |
| Acceleration/braking value Per second | 10 000 rpm (other values by consultation) |

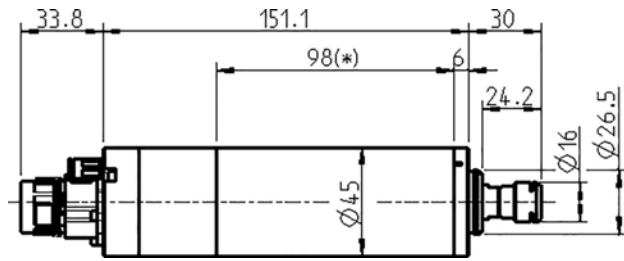
Power values

Uncooled

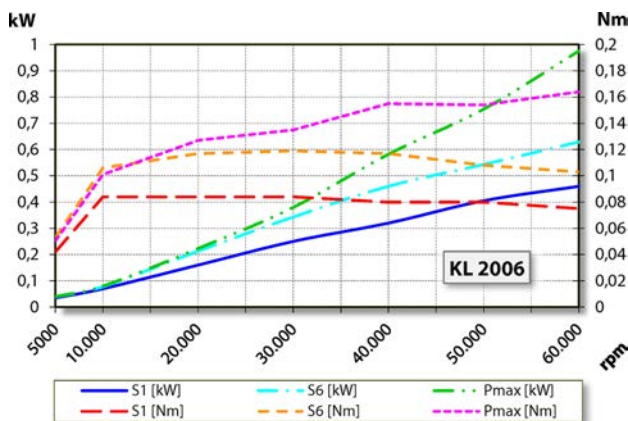
| | Pmax./5s | S6-60% | S1-100% | |
|-------------|----------|--------|---------|------|
| Rated power | 0,98 | 0,63 | 0,46 | [kW] |
| Torque | 0,164 | 0,119 | 0,084 | [Nm] |
| Voltage | 91 | 100 | 90 | [V] |
| Current | 9 | 6,5 | 5 | [A] |

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Dimensions



Performance Diagram

Uncooled

Measurement of power is funded by in-house testing.

Characteristics

| | |
|---|--|
| Speed sensor | Differential magneto resistor (TTL) Number of signals = 6 |
| Motor protection | PTC 100°C |
| Housing | Stainless steel |
| Housing diameter | 45 mm |
| Cooling | Uncooled |
| Heat dissipation | Via the spindle holder |
| Housing temperature | < + 45° C |
| Ambient temperature | + 10°C ... + 45°C |
| Sealing air | |
| Protection category (sealing air turned on) | IP54 |
| Tool change | Manual tool change |
| Collet type | ER 11 |
| | Optional accessories |
| Clamping range up to | 7 mm (9/32") |
| Clockwise | |
| Coupler plug | 9-pin (SpeedTEC) |
| Weight | ~ 1,5 kg |
| Inner taper run out | < 1 μ |