



## Z33-M080.03 K2S15

### Manual tool change

Item no. **15201035**

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 (no brushes or sensors)
Frequency	1.333 Hz
Motor poles (pairs)	1
Rated rotation speed	80.000 rpm
Acceleration/braking value Per second	10 000 rpm (other values by consultation)

### Power values

#### Spindle holder cooled

	Pmax./5s	S6-60%	S1-100%	
Rated power	0,67	0,61	0,55	[kW]
Torque	0,0916	0,0831	0,0762	[Nm]
Voltage	63	64	66	[V]
Current	10,3	9,6	8,9	[A]

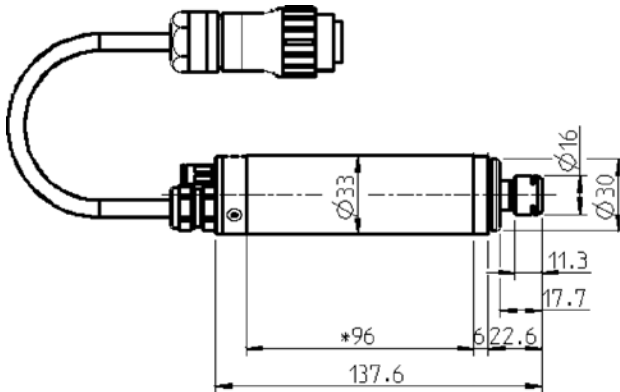
### Power values

#### Uncooled

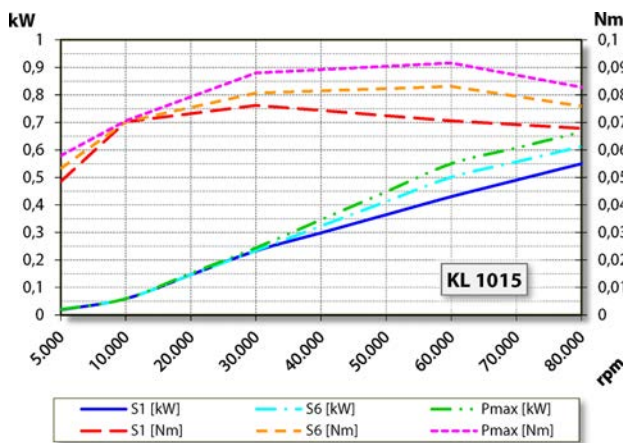
	Pmax./5s	S6-60%	S1-100%	
Rated power	0,44	0,41	0,28	[kW]
Torque	0,08	0,075	0,06	[Nm]
Voltage	53	53	49	[V]
Current	8,6	7,9	7	[A]

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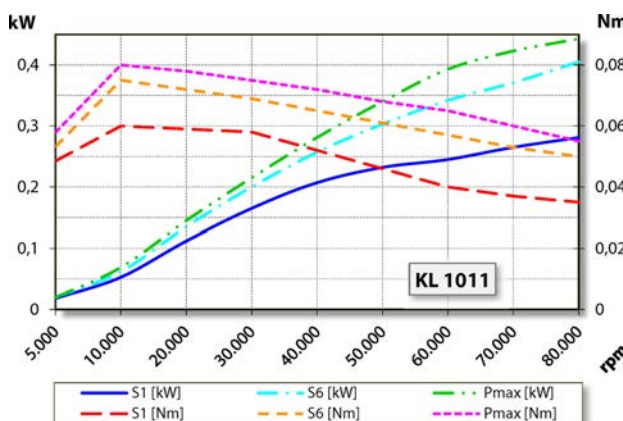
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Dimensions



Performance Diagram



Performance Diagram

Uncooled

Measurement of power is funded by in-house testing.

**Characteristics**

Motor protection	PTC 100°C
Housing	Aluminium
Housing diameter	33 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	7-pin plastic
	Cable length 2 m
Weight	~ 0,5 kg
Inner taper run out	< 1 µ