



## Z33-M060.51 K2S15

### Manual tool change

Item no. **15201039**

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

### Bearings

Steel 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

#### Spindle holder cooled

	Pmax./5s	S6-60%	S1-100%	
Rated power	0,55	0,5	0,43	[kW]
Torque	0,1014	0,0931	0,0817	[Nm]
Voltage	57	57	57	[V]
Current	10	9,4	8,6	[A]

### Power values

#### Uncooled

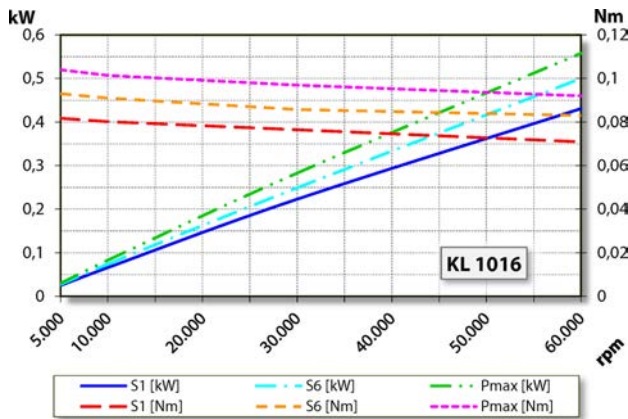
	Pmax./5s	S6-60%	S1-100%	
Rated power	0,4	0,34	0,25	[kW]
Torque	0,08	0,075	0,06	[Nm]
Voltage	47	47	44	[V]
Current	8,2	7,8	8,1	[A]

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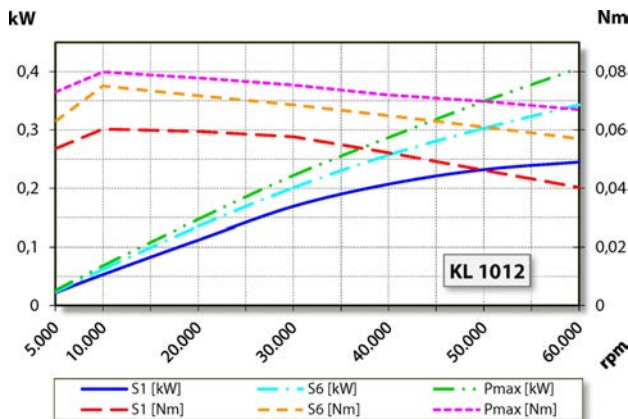
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Dimensions



Performance Diagram  
Spindle holder cooled



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 8
	Optional accessories
Clamping range up to	5 mm (13/64")
Clockwise	
Coupler plug	7-pin plastic
	Cable length 2 m
Weight	~ 0,62 kg
Inner taper run out	< 1 μ