



## DentaDrive 60-3 S21

### Electric Direct Tool Change

Item no. **153BB021PRA-01**

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

#### Bearings

Hybrid ball bearing (pcs)	2 (front)
Steel ball bearing (pcs)	1 (rear)
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]

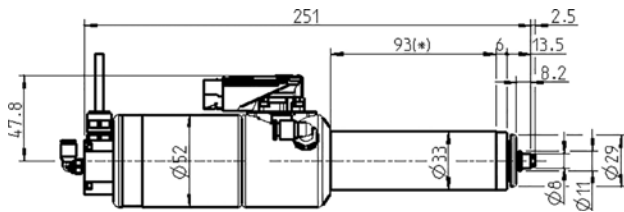
#### Power values

##### Uncooled

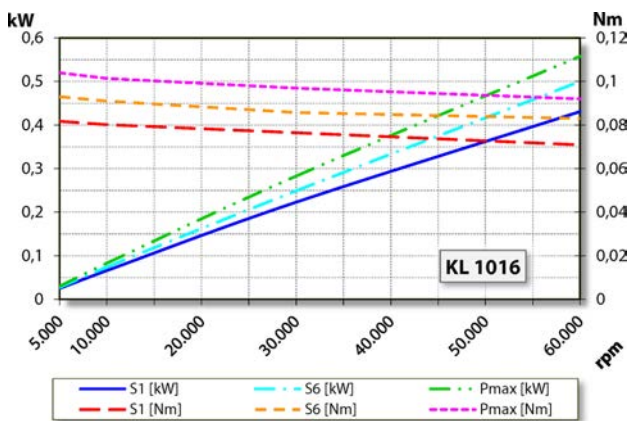
	Pmax./5s	S6-60%	S1-100%	
Rated power	0,4	0,34	0,25	[kW]
Torque	0,08	0,075	0,06	[Nm]
Voltage	47	47	44	[V]
Current	8,2	7,8	8,1	[A]

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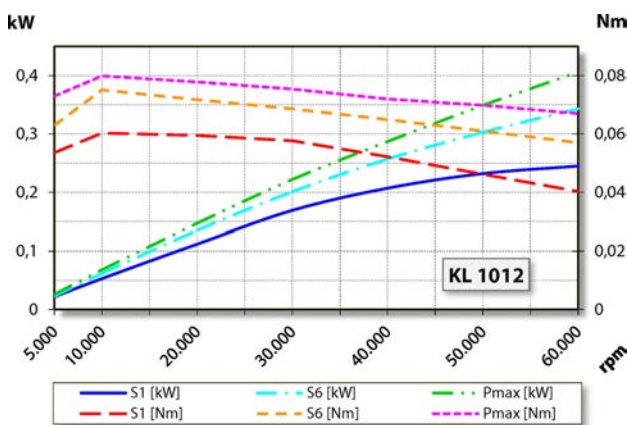


Dimensions



Performance Diagram

Spindle holder cooled



Performance Diagram

Uncooled

Measurement of power is funded by in-house testing.

**Characteristics**

Motor protection	PTC 100°C
Housing	Stainless steel
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
Blow air through collet during tool change	
ESD protection	
Tool change	Electric Direct Tool Change
Collet type	5,1P-5°
	Optional accessories
Clamping range up to	3.5 mm (1/8")
Clockwise	
Coupler plug	9-pin (I-TEC)
Weight	~ 1,5 kg
Inner taper run out	< 1 μ