

DentaDrive 100V-3 S21

Electric Direct Tool Change

Item no. **153FK021TRA**

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	1.667 Hz
Motor poles (pairs)	1
Rated rotation speed	100.000 rpm
Acceleration/braking value Per second	10 000 rpm (other values by consultation)

Power values

Compressed air cooled

	Pmax./5s	S6-60%	S1-100%	
Rated power	0,42	0,33	0,22	[kW]
Torque	0,111	0,074	0,055	[Nm]
Voltage	36	36	36	[V]
Current	13,7	9,6	7,5	[A]

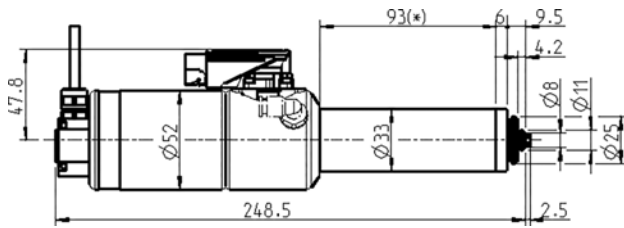
Power values

Spindle holder cooled

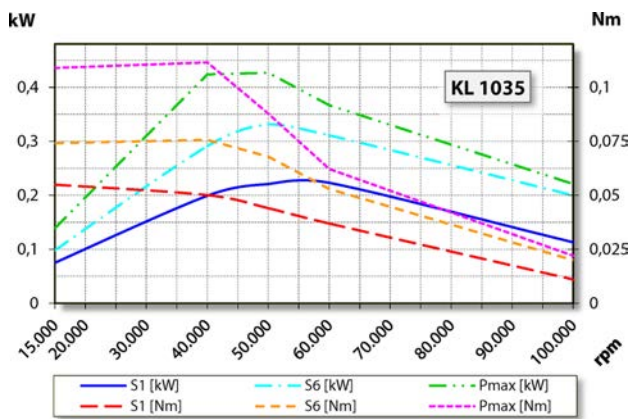
	Pmax./5s	S6-60%	S1-100%	
Rated power	0,75	0,65	0,51	[kW]
Torque	0,11	0,09	0,083	[Nm]
Voltage	71	71	66	[V]
Current	13,6	11	10,2	[A]

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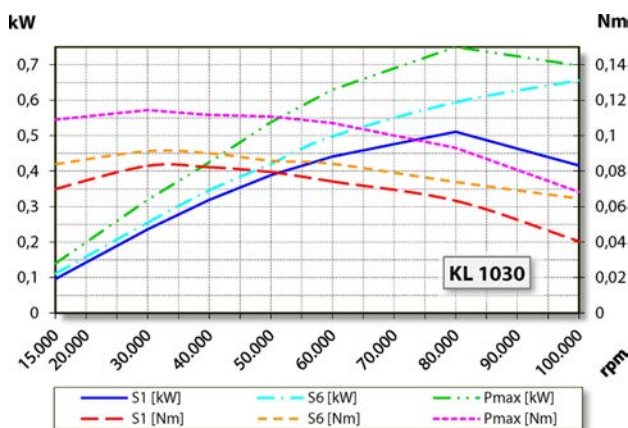
Dimensions



Performance Diagram

Compressed air cooled

Measurement of power is funded by in-house testing.



Performance Diagram

Spindle holder cooled

Characteristics

Motor protection	Pt1000
Housing	Stainless steel/ aluminium
Housing diameter	33 mm
Cooling	Compressed air cooled
Heat dissipation	Via the housing
Housing temperature	< + 50° 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