

TORQUE MOTOR

Standard **TMM0175-100**

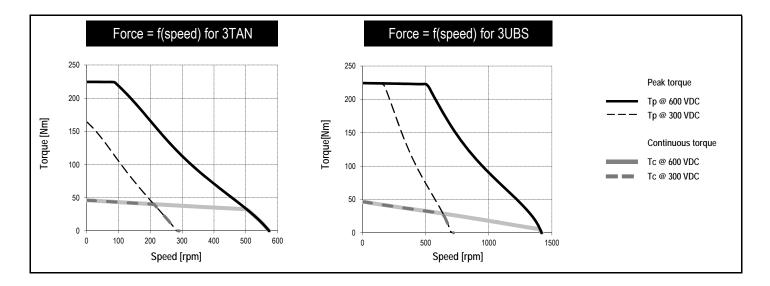
		Winding codes	- 3TAN	3UBS
r I	PERFORMANCE	UNIT	FREE AIR CONVECTION (with glued stator)	FREE AIR CONVECTION (with glued stator)
Тр	Peak torque	Nm	226	226
Тс	Continuous torque	Nm	45.5	46.0
Ts	Stall torque	Nm	34.4	34.8
Kt	Torque constant	Nm/Arms	11.9	4.82
Ku	Back EMF constant (*)	Vrms/(rad/s)	6.89	2.79
Km	Motor constant	Nm/√W	3.10	3.13
R20	Electrical resistance at 20°C (*)	Ohm	9.88	1.58
L1	Electrical inductance (*)	mH	74.0	12.1
lp	Peak current	Arms	27.1	66.9
lc	Continuous current	Arms	4.06	10.2
ls	Stall current	Arms	3.07	7.69
Рс	Max. continuous power dissipation	W	345	345

	SPECIFICATIONS	UNIT		
Udc	Nominal input voltage	VDC	600	600
τth	Thermal time constant	S	1830	1830
Rth	Thermal resistance	K/W	0.305	0.305
2p	Number of poles	-	22	22
J	Rotor inertia	kg.m ²	0.00909	0.00909
Mr	Rotor mass	kg	3.33	3.33
Ms	Stator mass	kg	9.56	9.60
Td	Max. detent torque (average to peak)	Nm	1.9	1.9
ns	Stall speed	rpm	0.030	0.030

Notes: (*) terminal to terminal. Hypothesis and tolerances are in ETEL's Handbook.

Ambient temperature = 20 °C. Max. coil temperature = 130 °C.

Hypothesis and tolerances are in ETEL's Handbook. Stator connected to a total surface of 0.17 m² and rotor to a total surface of 0.066 m² Caution: Any use of the motor beyond speed/force limit could lead to hazardous voltage and serious injuries. Customer is responsible for setting safeties/limitations that will keep the motor in its safe operating area. ETEL cannot be held responsible if the motor is used in an improper way.



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