

MOTOR PERFORMANCE		Winding codes	3TA	3VA		
		UNIT	FREE AIR COOLING	FREE AIR COOLING		
Fp	Peak force	N	2720	2720		
Fc	Continuous force	N	672	644		
Fs	Standstill force	N	507	485		
Ip	Peak current	Arms	27.1	46.7		
Ic	Continuous current	Arms	3.23	5.33		
Is	Standstill current	Arms	2.44	4.04		
vs	Rated low speed	mm/s	0.11	0.11		
Pc	Power dissipation @ Ic	W	226	225		
Fd	Max. detent force (average to peak)	N	33	33		
Fa	Attraction force	N	5200	5200		

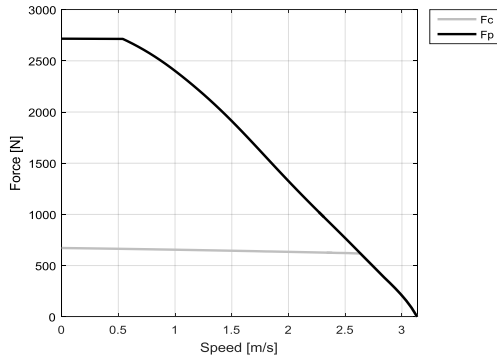
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	222	129		
Ku	Back EMF constant (*)	Vrms/(m/s)	132	76.9		
Km	Motor constant	N/√W	57.1	54.8		
R20	Electrical resistance at 20°C (*)	Ohm	10.1	3.70		
L	Electrical inductance (*)	mH	120	40.5		
rth	Thermal time constant	s	2900	2880		
Rth	Thermal resistance	K/W	0.484	0.485		
2tp	Magnetic period	mm	32	32		
mw	Magnetic way mass	kg/m	12.6	12.6		
mm	Motor mass	kg	5.97	5.83		

MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600	600		
Gm	Mechanical gap	mm	0.90	0.90		
Ss	Stator exchange surface	m²	0.06	0.06		
x	Assumed stroke	m	0.51	0.51		
θamb	Ambient temperature	°C	20	20		
θmax	Maximum coil temperature	°C	130	130		

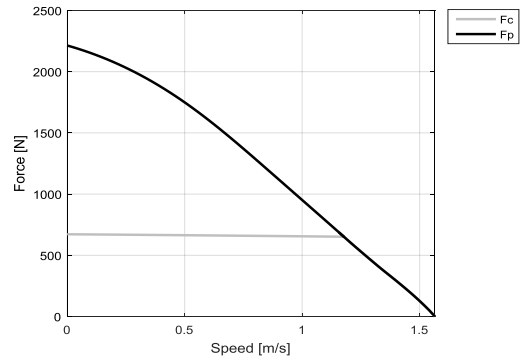
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL handbook.

Caution: Any use of the motor beyond speed/torque 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.

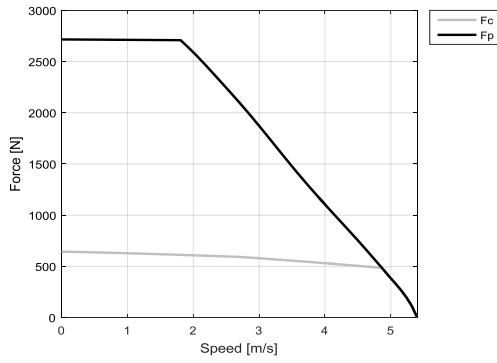
3TA - FREE AIR COOLING - 600V



3TA - FREE AIR COOLING - 300V



3VA - FREE AIR COOLING - 600V



3VA - FREE AIR COOLING - 300V

