

MOTOR PERFORMANCE		Winding codes	3QA	3QB		
		UNIT	FREE AIR COOLING	FREE AIR COOLING		
Fp	Peak force	N	1280	1280		
Fc	Continuous force	N	260	260		
Fs	Standstill force	N	196	196		
Ip	Peak current	Arms	15.5	31.0		
Ic	Continuous current	Arms	2.17	4.35		
Is	Standstill current	Arms	1.65	3.29		
vs	Rated low speed	mm/s	0.15	0.15		
Pc	Power dissipation @ Ic	W	122	122		
Fd	Max. detent force (average to peak)	N	17	17		
Fa	Attraction force	N	2500	2500		

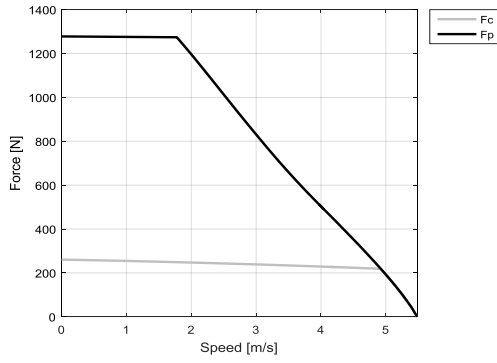
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	125	62.6		
Ku	Back EMF constant (*)	Vrms/(m/s)	75.7	37.8		
Km	Motor constant	N/√W	29.4	29.4		
R20	Electrical resistance at 20°C (*)	Ohm	12.1	3.02		
L	Electrical inductance (*)	mH	79.5	19.9		
rth	Thermal time constant	s	2200	2200		
Rth	Thermal resistance	K/W	0.891	0.891		
2tp	Magnetic period	mm	32	32		
mw	Magnetic way mass	kg/m	7.96	7.96		
mm	Motor mass	kg	2.19	2.19		

MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600	600		
Gm	Mechanical gap	mm	0.90	0.90		
Ss	Stator exchange surface	m²	0.03	0.03		
x	Assumed stroke	m	0.47	0.47		
θamb	Ambient temperature	°C	20	20		
θmax	Maximum coil temperature	°C	130	130		

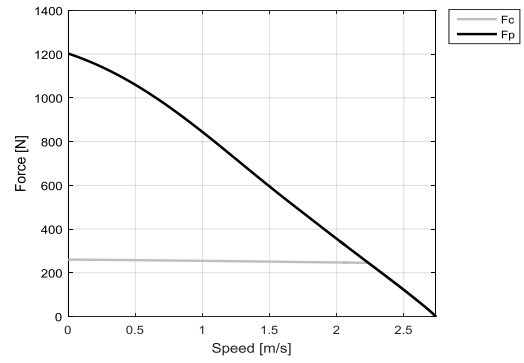
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL handbook.

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.

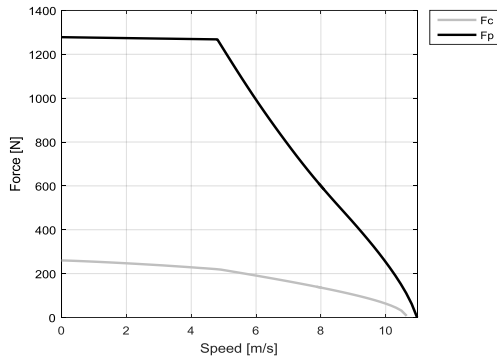
3QA - FREE AIR COOLING - 600V



3QA - FREE AIR COOLING - 300V



3QB - FREE AIR COOLING - 600V



3QB - FREE AIR COOLING - 300V

