		Winding codes	3QC			
MOTOR PERFORMANCE		UNIT	FREE AIR COOLING			
Fp	Peak force	N	3070			
Fc	Continuous force	N	580			
Fs	Standstill force	N	438			
Ip	Peak current	Arms	44.7			
Ic	Continuous current	Arms	6.00			
Is	Standstill current	Arms	4.55			
vs	Rated low speed	mm/s	0.13			
Pc	Power dissipation @ Ic	W	207			
Fd	Max. detent force (average to peak)	N	39			
Fa	Attraction force	N	6880			

MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	102			
Ku	Back EMF constant (*)	Vrms/(m/s)	61.9			
Km	Motor constant	N/√W	50.9			
R20	Electrical resistance at 20°C (*)	Ohm	2.69			
L	Electrical inductance (*)	mH	18.5			
τth	Thermal time constant	s	2540			
Rth	Thermal resistance	K/W	0.525			
2τp	Magnetic period	mm	32			
mw	Magnetic way mass	kg/m	12.6			
mm	Motor mass	kg	4.40			

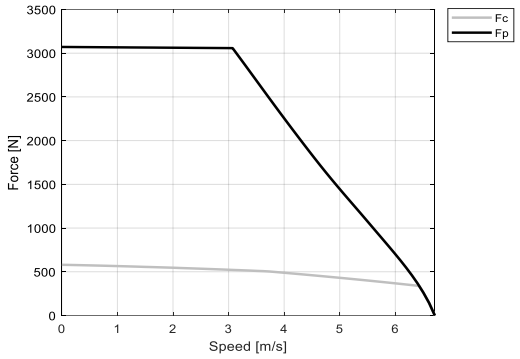
MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600			
Gm	Mechanical gap	mm	0.90			
Ss	Stator exchange surface	m²	0.06			
x	Assumed stroke	m	0.51			
θamb	Ambient temperature	°C	20			
θmax	Maximum coil temperature	°C	130			

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

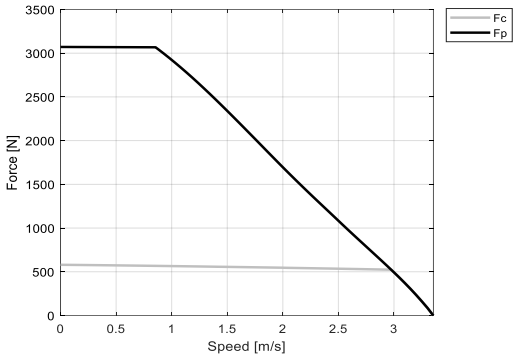
Caution: Any use of the motor beyond speed/force limit could lead to hazardous voltage and serious injuries. Customer is responsible for setting safeties/limitations that will keep the motor in its safe operating area. ETEL cannot be held responsible if the motor is used in an improper way.

ETEL S.A. Zone Industrielle, CH-2112 Môtiers, Switzerland
T +41 (0)32 862 01 00 • F +41 (0)32 862 01 01 • etel@etel.ch • www.etel.ch

3QC - FREE AIR COOLING - 600V



3QC - FREE AIR COOLING - 300V



ETEL S.A. Zone Industrielle, CH-2112 Môtiers, Switzerland
T +41 (0)32 862 01 00 • F +41 (0)32 862 01 01 • etel@etel.ch • www.etel.ch