

MOTOR PERFORMANCE		Winding codes	KB	KB	NB	NB
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
Fp	Peak force	N	198	198	189	189
Fc	Continuous force	N	41.3	52.3	39.8	50.3
Fs	Standstill force	N	31.2	39.3	30.0	37.8
Ip	Peak current	Arms	7.04	7.04	14.7	14.7
Ic	Continuous current	Arms	1.44	1.81	3.04	3.83
Is	Standstill current	Arms	1.08	1.36	2.29	2.88
vs	Rated low speed	mm/s	1.1	2.4	1.2	2.5
Pc	Power dissipation @ Ic	W	49.8	77.5	49.4	76.8
Fd	Max. detent force (average to peak)	N	0.0	0.0	0.0	0.0
Fa	Attraction force	N	0.00	0.00	0.00	0.00

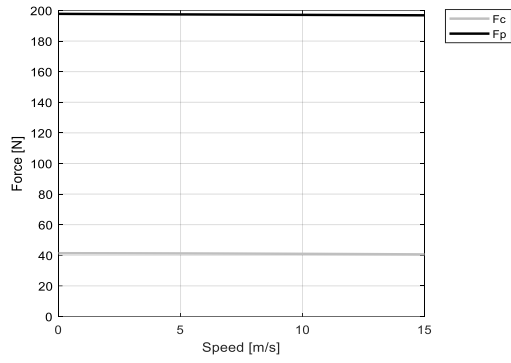
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	29.5	29.5	13.4	13.4
Ku	Back EMF constant (*)	Vrms/(m/s)	17.9	17.9	8.17	8.17
Km	Motor constant	N/√W	7.12	7.12	6.89	6.89
R20	Electrical resistance at 20°C (*)	Ohm	11.4	11.4	2.53	2.53
L	Electrical inductance (*)	mH	6.13	6.13	1.27	1.27
rth	Thermal time constant	s	283	131	276	129
Rth	Thermal resistance	K/W	2.20	1.39	2.22	1.40
2tp	Magnetic period	mm	32	32	32	32
mw	Magnetic way mass	kg/m	8.16	8.16	8.16	8.16
mm	Motor mass	kg	0.194	0.326	0.187	0.319

MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600	600	600	600
Ss	Stator exchange surface	m²	0.05	0.05	0.05	0.05
x	Assumed stroke	m	0.38	0.38	0.38	0.38
θamb	Ambient temperature	°C	20	20	20	20
θmax	Maximum coil temperature	°C	130	130	130	130
θa	Inlet air temperature	°C	N/A	20	N/A	20
qa	Minimum air flow	l/min	N/A	33	N/A	33
Δpa	Minimum inlet air gauge pressure	bar	N/A	0.3	N/A	0.3

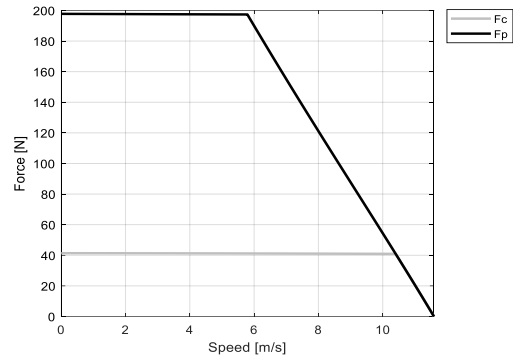
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL Integration Manual.

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.

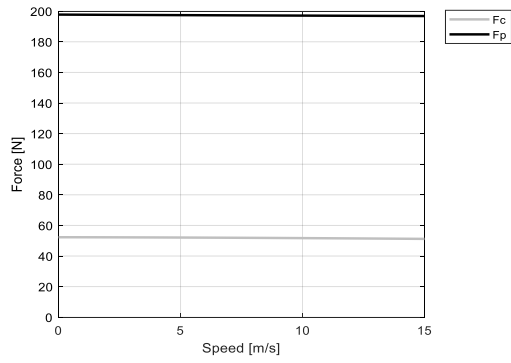
KB - FREE AIR COOLING - 600V



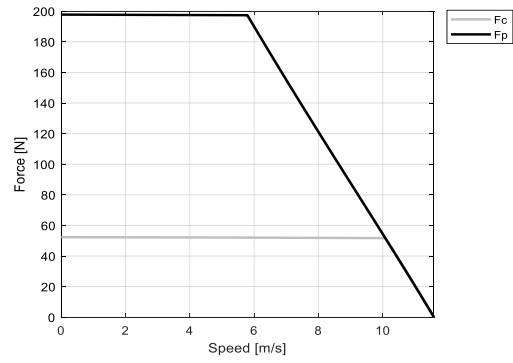
KB - FREE AIR COOLING - 300V



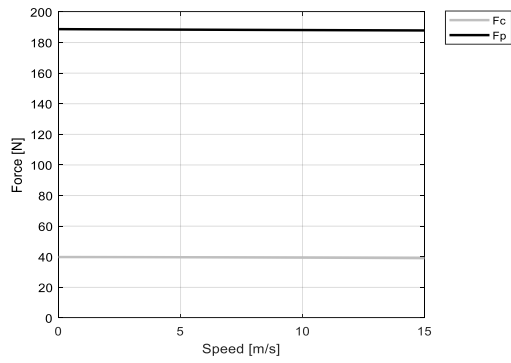
KB - FORCED AIR COOLING - 600V



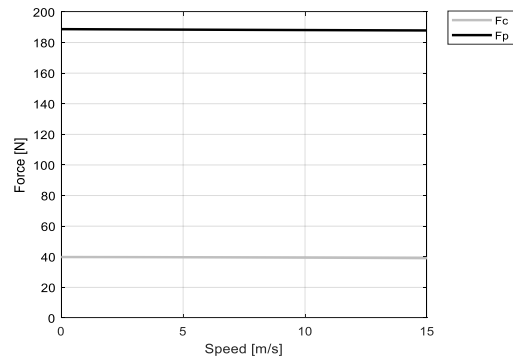
KB - FORCED AIR COOLING - 300V



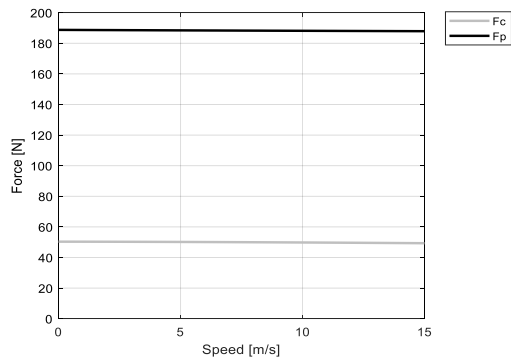
NB - FREE AIR COOLING - 600V



NB - FREE AIR COOLING - 300V



NB - FORCED AIR COOLING - 600V



NB - FORCED AIR COOLING - 300V

