

MOTOR PERFORMANCE		Winding codes	KC	KC	NC	NC
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
Fp	Peak force	N	294	294	290	290
Fc	Continuous force	N	60.0	68.8	59.8	68.5
Fs	Standstill force	N	45.3	51.8	45.1	51.6
Ip	Peak current	Arms	10.5	10.5	22.7	22.7
Ic	Continuous current	Arms	2.09	2.39	4.58	5.24
Is	Standstill current	Arms	1.58	1.80	3.45	3.94
vs	Rated low speed	mm/s	1.1	1.7	1.1	1.8
Pc	Power dissipation @ Ic	W	72.1	92.9	71.4	92.2
Fd	Max. detent force (average to peak)	N	0	0	0	0
Fa	Attraction force	N	0.0	0.0	0.0	0.0

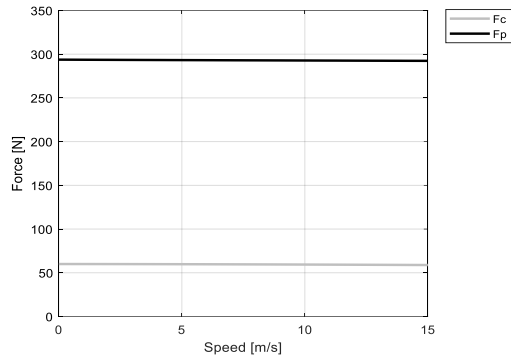
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	29.5	29.5	13.4	13.4
Ku	Back EMF constant (*)	Vrms/(m/s)	17.9	17.9	8.17	8.17
Km	Motor constant	N/√W	8.64	8.64	8.65	8.65
R20	Electrical resistance at 20°C (*)	Ohm	7.75	7.75	1.61	1.61
L	Electrical inductance (*)	mH	4.09	4.09	0.849	0.849
rth	Thermal time constant	s	300	184	292	181
Rth	Thermal resistance	K/W	1.52	1.17	1.53	1.18
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	0.288	0.483	0.277	0.473

MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600	600	600	600
Ss	Stator exchange surface	m²	0.08	0.08	0.08	0.08
x	Assumed stroke	m	0.44	0.44	0.44	0.44
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

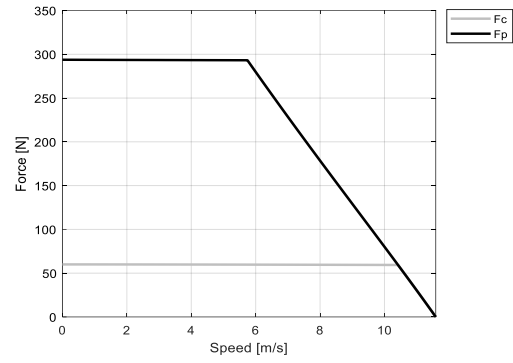
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL Integration Manual.

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.

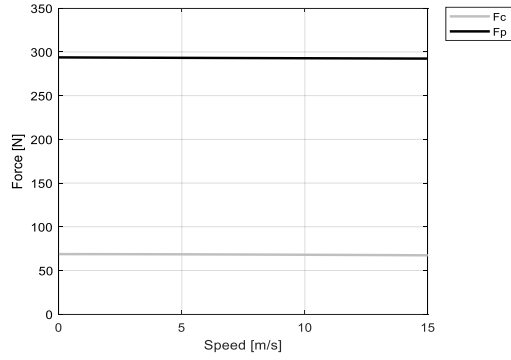
KC - FREE AIR COOLING - 600V



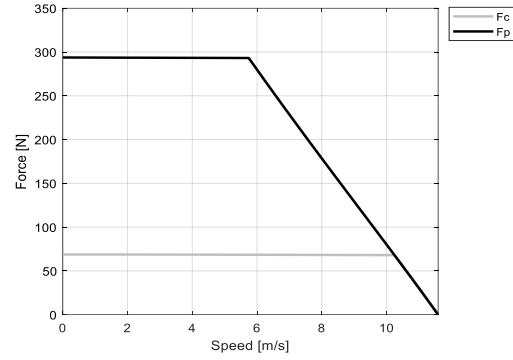
KC - FREE AIR COOLING - 300V



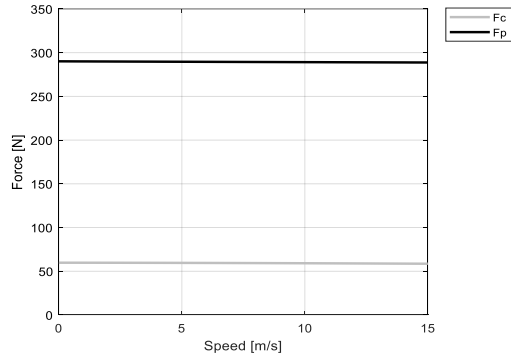
KC - FORCED AIR COOLING - 600V



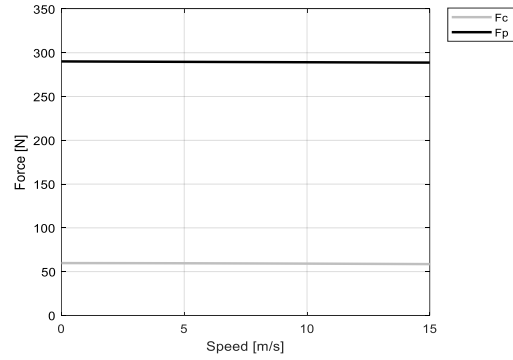
KC - FORCED AIR COOLING - 300V



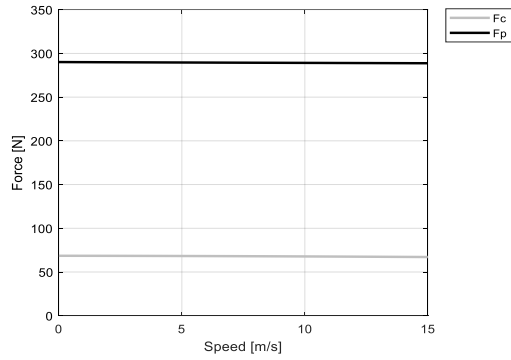
NC - FREE AIR COOLING - 600V



NC - FREE AIR COOLING - 300V



NC - FORCED AIR COOLING - 600V



NC - FORCED AIR COOLING - 300V

