

MOTOR PERFORMANCE		Winding codes	RC	RC	UC	UC
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
Fp	Peak force	N	1510	1510	1440	1440
Fc	Continuous force	N	240	257	230	245
Fs	Standstill force	N	182	194	174	186
Ip	Peak current	Arms	53.5	53.5	110	110
Ic	Continuous current	Arms	8.40	8.99	17.4	18.5
Is	Standstill current	Arms	6.36	6.78	13.2	14.1
vs	Rated low speed	mm/s	0.52	0.99	0.54	1.0
Pc	Power dissipation @ Ic	W	196	223	195	217
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

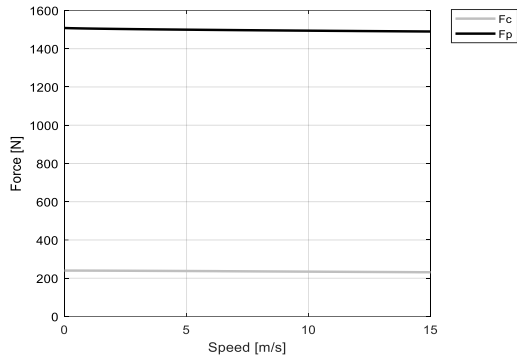
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	29.6	29.6	13.7	13.7
Ku	Back EMF constant (*)	Vrms/(m/s)	17.8	17.8	8.23	8.23
Km	Motor constant	N/√W	21.2	21.2	20.4	20.4
R20	Electrical resistance at 20°C (*)	Ohm	1.30	1.30	0.300	0.300
L	Electrical inductance (*)	mH	2.46	2.47	0.526	0.526
rth	Thermal time constant	s	1220	648	1200	626
Rth	Thermal resistance	K/W	0.559	0.491	0.564	0.495
2tp	Magnetic period	mm	64	64	64	64
mw	Magnetic way mass	kg/m	13.3	13.3	13.3	13.3
mm	Motor mass	kg	1.14	1.59	1.10	1.55

MOTOR ENVIRONMENT		UNIT				
Udc	Nominal DC bus voltage	VDC	600	600	600	600
Ss	Stator exchange surface	m²	0.19	0.19	0.19	0.19
x	Assumed stroke	m	0.89	0.89	0.89	0.89
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	66	N/A	66
Δpa	Minimum inlet air gauge pressure	bar	N/A	0.9	N/A	0.9

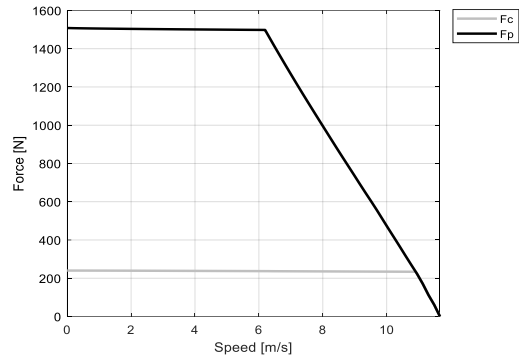
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL Integration Manual.

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.

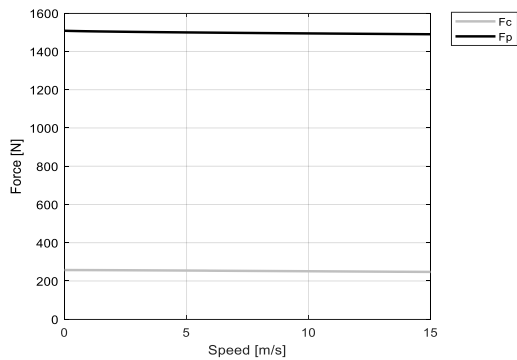
RC - FREE AIR COOLING - 600V



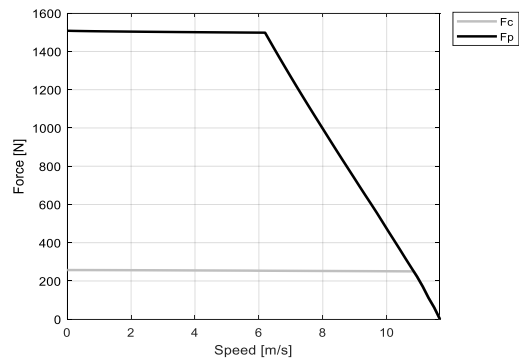
RC - FREE AIR COOLING - 300V



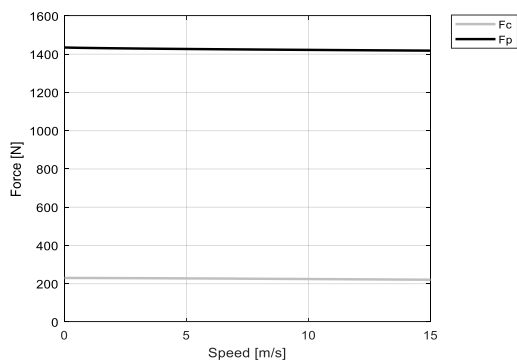
RC - FORCED AIR COOLING - 600V



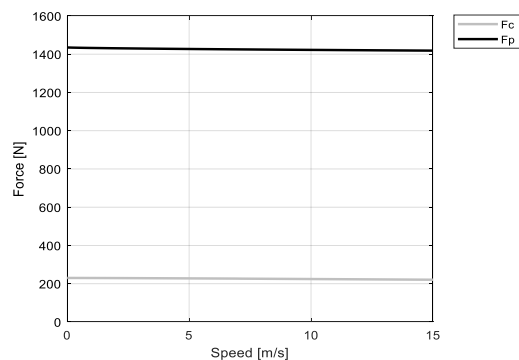
RC - FORCED AIR COOLING - 300V



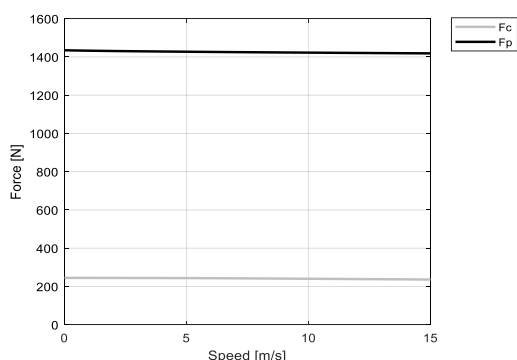
UC - FREE AIR COOLING - 600V



UC - FREE AIR COOLING - 300V



UC - FORCED AIR COOLING - 600V



UC - FORCED AIR COOLING - 300V

