

Serie LSSM - P - 36 – 210- ...

Overall and join dimensions

Parameter	Symbol	Unit	25-...	
			FS	FT
			Peak force (coil at 20°C)	Fp
Continuous force (coil at 120°C), water cooling	Fw	N	483	
Continuous force (coil at 120°C), air cooling	Fa	N	242	
Detent force	Fd	N	7,7	
Attraction force of magnets	Fm	N	75	
Recommended supply voltage DC	Us	V	310	
Motor constant (coil at 20°C)	Ko	N/√W	28,1	
Peak power dissipation (coil at 20°C)	Pp	W	2103	2136
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	542	569
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	120	139
Coolant flow for temperature difference 5°C by power Pw	Cf	L/min	1,6	1,6
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	m/s	1,9	3,5
Maximum velocity at Fw and Us (Coil at 20°C)	Vw	m/s	3,3	5,9
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	4,9	8,4
Peak current (RMS) at Fp and V=0	Ip	Arms	20,6	35,7
Continuous current at 120°C with water cooling at Fw and V=0	Iw	Arms	10,2	17,7
Continuous current at 120°C with air cooling at Fa and V=0	Ia	Arms	4,5	7,7
Efficiency at Mw and 540V DC (Coil at 20°C)	Ew	%	74,9	83,4
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	44,2	25,5
Electrical resistance at 20°C (*)	R	Ohm	2,47	0,82
Electrical inductance (*)	L	mH	26,4	8,8