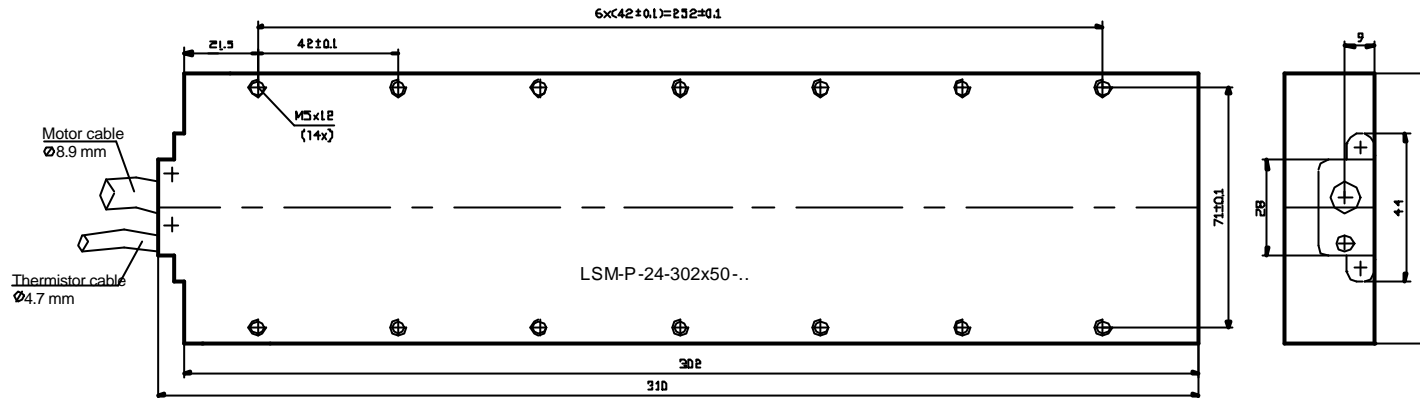


Linear Synchronous Motor series LSM-P-24-302x50



Overall and join dimensions

Parameter	Symbol	Unit	LSM-P-24-302-50	
			GS	GT
Peak force (coil at 20°C)	Fp	N	970	
Continuous force (coil at 120°C), water cooling ¹	Fw	N	576	
Continuous force (coil at 120°C), air cooling	Fa	N	339	
Detent force	Fd	N	4,9	
Attraction force of magnets	Fm	N	3600	
Recommended supply voltage DC	Us	V	310	
Motor constant (coil at 20°C)	Ko	N/ W	31,4	
Peak power dissipation (coil at 20°C)	Pp	W	1423	1473
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	503	544
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	192	223
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	2,8	3,6
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	3,5	3,6
Peak current (RMS) at Fp and V=0	Ip	Arms	14,0	24,2
Continuous current at 120°C with water cooling at Fw and V=0	Iw	Arms	8,0	13,9
Continuous current at 120°C with air cooling at Fa and V=0	Ia	Arms	4,7	8,1
Efficiency at Fw and Us (Coil at 20°C)	Ew	%	76,4	84,1
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	59,1	34,1
Electrical resistance at 20°C (*)	R	Ohm	3,55	1,18
Electrical inductance (*)	L	mH	22,9	7,6