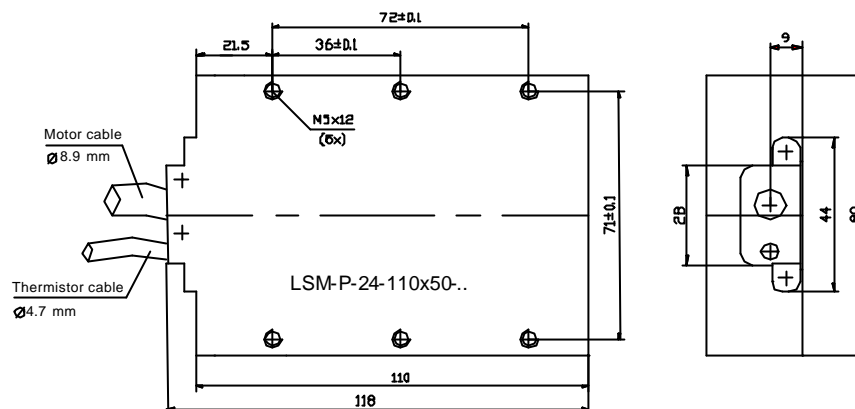


Linear Synchronous Motor series LSM-P-24-110x50_



Overall and join dimensions

Parameter	Symbol	Unit	50-...	
			GS	GT
Peak force (coil at 20°C)	Fp	N	323	
Continuous force (coil at 120°C), water cooling ¹	Fw	N	192	
Continuous force (coil at 120°C), air cooling	Fa	N	113	
Detent force	Fd	N	1,6	
Attraction force of magnets	Fm	N	1200	
Recommended supply voltage DC	Us	V	70	
Motor constant (coil at 20°C)	Ko	N/ W	18,1	
Peak power dissipation (coil at 20°C)	Pp	W	467	478
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	161	171
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	60	66
Coolant flow for temperature difference 5°C by power Pw	Cf	L/min	0,5	0,5
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	m/s	1,2	2,3
Maximum velocity at Fw and Us (Coil at 20°C)	Vw	m/s	1,8	3,3
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	2,3	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	%	68,4	79,0
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	19,7	11,4
Electrical resistance at 20°C (*)	R	Ohm	1,18	0,39
Electrical inductance (*)	L	mH	7,6	2,5