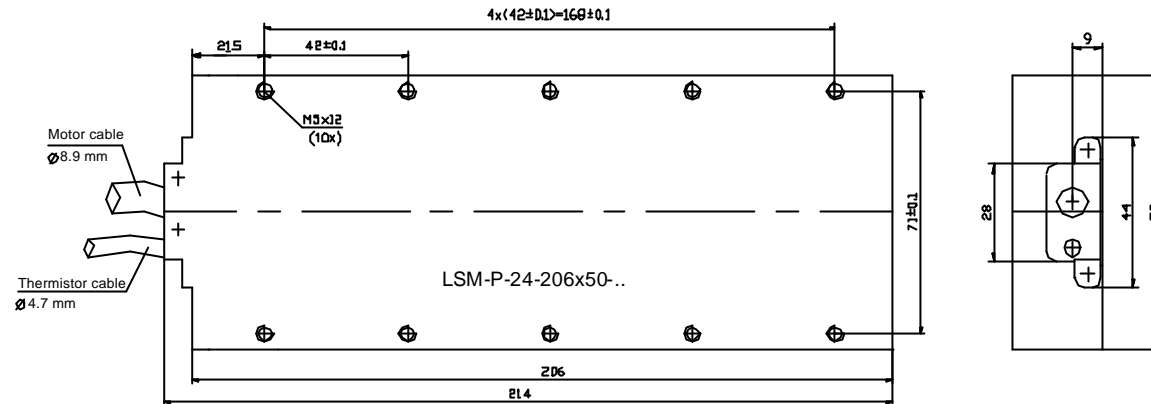


Linear Synchronous Motor series LSM-P-24-206x50 _



Overall and join dimensions

Parameter	Symbol	Unit	50-...			
			HS	HT	GS	GT
Peak force (coil at 20°C)	Fp	N	647			
Continuous force (coil at 120°C), water cooling ¹	Fw	N	385		384	
Continuous force (coil at 120°C), air cooling	Fa	N	227		226	
Detent force	Fd	N	3,2			
Attraction force of magnets	Fm	N	2400			
Recommended supply voltage DC	Us	V	540			
Motor constant (coil at 20°C)	Ko	N/ W	25,7		25,6	
Peak power dissipation (coil at 20°C)	Pp	W	952	990	1022	1107
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	341	372	395	466
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	132	156	174	232
Coolant flow for temperature difference 5°C by power Pw	Cf	L/min	0,8	0,9	0,9	1,0
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	m/s	2,2	3,6	3,6	3,6
Maximum velocity at Fw and Us (Coil at 20°C)	Vw	m/s	3,2	3,6	3,6	3,6
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	3,6	3,6	3,6	3,6
Peak current (RMS) at Fp and V=0	Ip	Arms	6,0	10,5	14,0	24,2
Continuous current at 120°C with water cooling at Fw and V=0	Iw	Arms	3,5	6,0	8,0	13,9
Continuous current at 120°C with air cooling at Fa and V=0	Ia	Arms	2,0	3,5	4,7	8,1
Efficiency at Fw and US (Coil at 20°C)	Ew	%	78,4	85,4	88,0	91,2
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	91,1	52,6	39,4	22,8
Electrical resistance at 20°C (*)	R	Ohm	12,61	4,20	2,37	0,79
Electrical inductance (*)	L	mH	81,4	27,1	15,2	5,1

