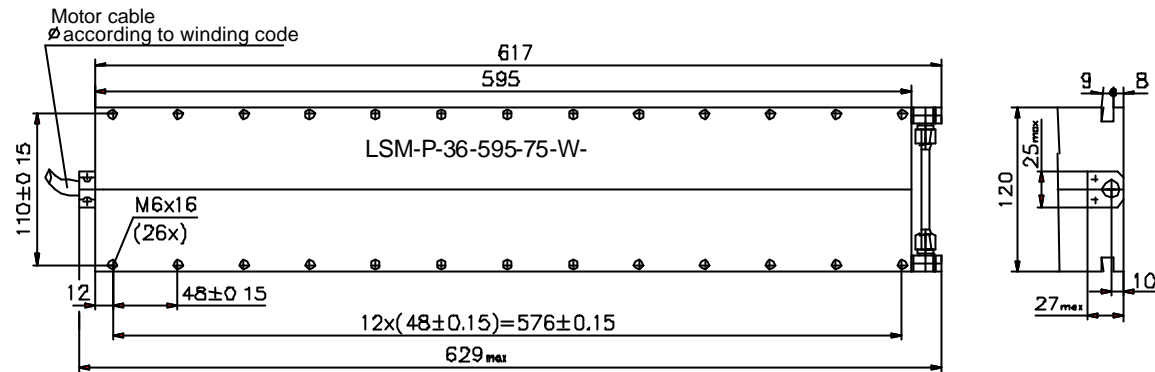


## Linear synchronous motor series LSM-P-36-595x75...



Parameter	Sym bol	Unit	75-...	
			FS	FT
Peak force (coil at 20°C)	Fp	N	3052	
Continuous force (coil at 120°C), water cooling	Fw	N	2468	
Continuous force (coil at 120°C), air cooling	Fa	N	1265	
Detent force	Fd	N	36,6	
Attraction force of magnets	Fm	N	11000	
Recommended supply voltage DC	Us	V	540	
Motor constant (coil at 20°C)	Ko	N/ W	71,9	
Peak power dissipation (coil at 20°C)	Pp	W	2793	2832
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	1843	1758
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	435	458
Coolant flow for temperature difference 5°C by power Pw	Cf	L/min	4,7	4,5
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	m/s	1,2	2,2
Maximum velocity at Fw and Us (Coil at 20°C)	Vw	m/s	1,4	2,6
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	1,9	3,5
Peak current (RMS) at Fp and V=0	Ip	Arms	14,0	24,2
Continuos current at 120°C with water cooling at Fw and V=0	Iw	Arms	10,9	18,9
Continuos current at 120°C with air cooling at Fa and V=0	Ia	Arms	5,4	9,3
Efficiency at Fw and US (Coil at 20°C)	Ew	%	64,5	78,4
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	192,3	111,0
Electrical resistance at 20°C (*)	R	Ohm	7,14	2,38
Electrical inductance (*)	L	mH	89,4	29,8