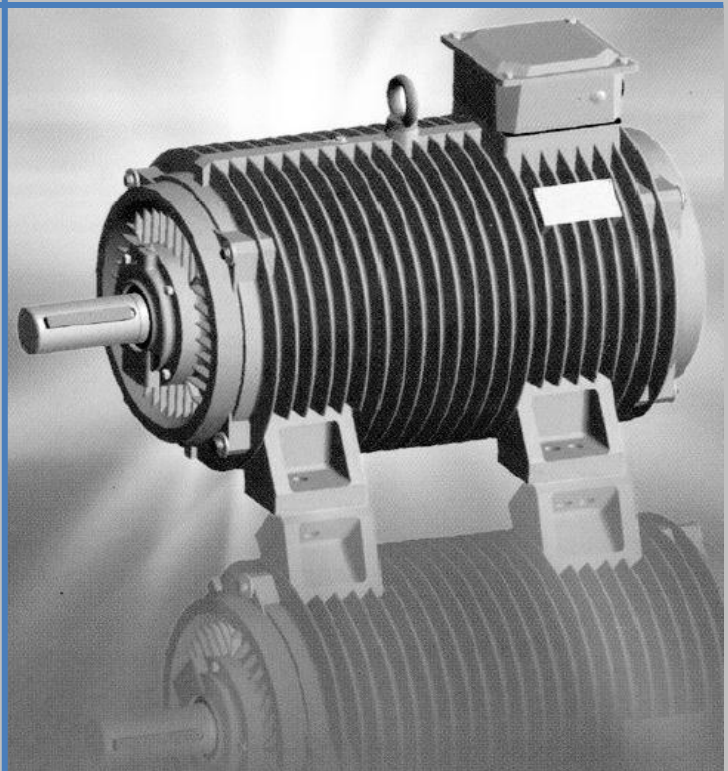




RollerTable Motors



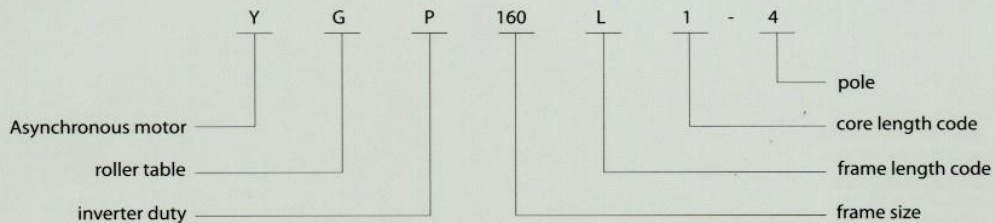
■ General

YGP series roller table motors (Hereafter refers to as YGP motors) are special driving elements for the development of steel industry, can be used with many kinds of SPWM frequency conversion installment. This kind of motor is suitable for continuous operation in high temperature, moist and dusty environment, it has advantage of small volume, light weight, low vibration, high reliability, high overload capacity, beautiful appearance, wide speed adjusting range, firm structure, easy maintenance, and ect.

YGP motor can be continuous or intermittent operation in the condition of frequent starting, brake, both rotation and over torque, 10% voltage compensation is permitted when motor operate in low frequency, and can produce big enough starting torque to meet overload starting, frame size 200 and above motors are suitable for re-greasing during operation, which can prolong the maintenance term, improve the working efficiency, heat protector, space heater, encoder, electromagnetic brake can be mounted in order to meet the customer requirement.

The insulation class of YGP motor is class F or H, protection class is IP55, IP56, IP65 are also suitable according to the customer requirement; the cooling type is IC410; mounting type is IMB3 (frame size 112-400), IMB5 (frame size 112-250), IMB35 (frame size 112-250), the rated voltage is 380V, rated frequency is 50HZ, frequency range 5-50HZ is constant torque, 50-100HP is constant output, frequency range can be set according to the required speed range for the customer, then special roller table motors can be designed.

YGP motor type meanings



■ Application

YGP motors are suitable for rolling mill industry, particularly in case of working and conveying roller table, also suitable for other similar mechanical equipment.

YGP motor can be direct coupling with rotating roller, by selecting the pole and frequency adjusting, can make the roller table motor to be wide range infinitely variable speed with any other mechanical speed reducing equipment such as gear box and ect. Every roller table conveying equipment using numbers of roller table motors, roller table motors and frequency converter using together, and speed can be controlled through frequency converter.

YGP motors are suitable for all kinds of duty cycle, for intermittent duty the base duty cycle is S5, load continuous rate is 60%, starting 300 times per hour.

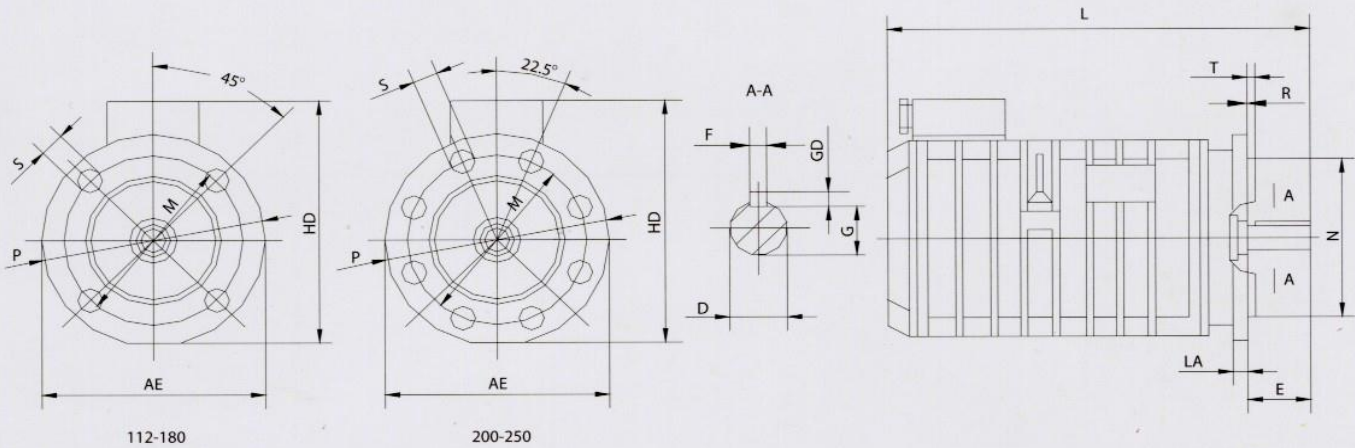
● Technical performance data

● 380V , 50Hz Rated Voltage 380V Rated frequency 50Hz

Frame	Poles	Output kW	Rated Torque N.m	Breakdown Torque (time)	Rated current A	Maximum Current A	Moment of inertia kg.m ²	Weight kg
112L	4	2	12.7	2.5	4.38	11.2	0.0166	75
132M1	4	3	19.1	2.5	6.01	16.5	0.0251	85
132M2	4	4	25.5	2.5	8.41	20.4	0.0333	95
160S	4	5.5	35.0	2.5	10.71	28.3	0.1140	160
160L1	4	7.5	47.8	2.5	14.94	36.2	0.1140	180
160L2	4	11	70.0	2.5	21.85	51.9	0.1400	190
180L	4	15	95.5	3.0	29.24	82.0	0.294	240
200L1	4	18.5	117.8	3.0	35.43	101	0.566	295
200L2	4	22	140	3.0	41.69	119	0.632	315
225M	4	30	191	3.0	55.14	160	1.10	470
250M1	4	37	235	3.0	68.09	197	2.57	572
250M2	4	45	286	3.0	84.22	236	2.57	617
280L1	4	55	350	3.0	102.2	283	5.12	750
280L2	4	75	477	3.0	131.0	387	6.95	800
315S	4	90	573	3.0	154.7	465	9.6	1080
315M1	4	110	700	3.0	189.6	561	11.4	1200
315M2	4	132	840	3.0	226.7	672	12.5	1290
112L	6	1.1	10.5	2.5	3.05	6.5	0.0166	75
132M1	6	2	19.1	2.5	5.29	10.7	0.0251	95
132M2	6	3	28.7	2.5	7.61	15.7	0.0333	105
160S	6	4	38.2	2.5	9.54	20.9	0.114	165
160L1	6	5.5	52.5	2.5	12.60	28.5	0.114	200
160L2	6	7.5	71.6	2.5	16.92	38.3	0.14	210
180L	6	11	105.1	2.5	24.23	51.8	0.294	235
200L1	6	15	143.3	3.0	31.99	85.0	0.566	310
200L2	6	18.5	176.7	3.0	39.78	104	0.632	345
225M	6	22	210.1	3.0	41.47	128.8	1.10	445
250M1	6	25	238.8	3.0	48.11	135.9	2.57	563
250M2	6	30	286.5	3.0	57.28	162.7	2.57	599

● 380V , 50Hz Rated Voltage 380V Rated frequency 50Hz

Frame	Poles	Output kW	Rated Torque N.m	Breakdown Torque (time)	Rated current A	Maximum Current A	Moment of inertia kg.m ²	Weight kg
280L1	6	37	353.4	3.0	73.57	196.0	5.12	750
280L2	6	45	429.8	3.0	84.41	240.1	6.95	800
315S1	6	55	525.3	3.0	98.51	314.8	9.60	1000
315M1	6	75	716.3	3.0	133.54	423.9	11.4	1130
315M2	6	90	859.5	3.0	160.20	501.9	12.5	1230
355L1	6	110	1050.5	3.0	194.96	595.0	18.6	1650
355L2	6	132	1260.6	3.0	235.37	707.4	22.2	1760
355L3	6	160	1528.0	3.0	283.74	856.5	25.6	1850
400L1	6	185	1766.8	3.0	352.97	1018.6	37.1	2360
400L2	6	200	1910.0	3.0	364.96	1150.0	42.6	2460
400L3	6	220	2101.0	3.0	406.76	1235.1	51.7	2560
180L	8	7.5	95.5	2.5	18.37	39.9	0.294	225
200L1	8	11	140	2.5	26.89	55.7	0.566	310
200L2	8	13	165.5	3.0	30.22	82.9	0.632	325
225M	8	15	191.0	3.0	32.53	99.2	1.10	435
250M1	8	18.5	235.6	3.0	39.82	111.3	2.57	563
250M2	8	22	280.1	3.0	48.05	129.9	2.57	595
280L1	8	30	382.0	3.0	68.39	167.9	5.12	750
280L2	8	37	471.1	3.0	80.64	207.4	6.95	800
315S1	8	45	573.0	3.0	87.00	248.9	9.60	1000
315M1	8	55	700.3	3.0	108.00	303.5	11.4	1070
315M2	8	75	955.0	3.0	151.3	403.9	12.5	1230
355L1	8	90	1146.0	3.0	163.27	513.6	18.6	1600
355L2	8	110	1400.7	3.0	198.08	627.8	22.2	1690
355L3	8	132	1680.8	3.0	239.04	783.1	25.6	1780
400L1	8	160	2037.3	3.0	315.99	1097.7	37.1	2450
400L2	8	185	2355.7	3.0	372.61	1155.3	42.6	2580
400L3	8	200	2546.7	3.0	434.34	1155.8	51.7	2730



● B5 Table 3 B5 (without foot, with flange)

Frame	Flange No	Mounting dimensions and tolerance											Outline dimensions										
		D	E	F	G	GD	M	N	P	R ¹⁾	S	T	AE	HD	LA	L							
112L	FF215	32		0	27		215	180	+0.014 -0.010	250				250	330	12	460						
132M	FF265	38	+0.018 +0.002	±0.37	10	-0.036	33		8	265	230		300	±2.0	15	+0.43 0	4.0	300	355	12	520		
160S																						650	
160L	FF300	48			14		42.5		9	300	250	+0.016 -0.013	350	±3.0				4	350	410	14	700	
180L		55		±0.43		0	-0.043		0														750
200L					16		49	-0.2	10														750
200L		65	+0.030 +0.011		18		58		11														860
225M	FF400	75			20	0	67.5		12	400	350	±0.018	450										950
250M	FF500	80		±0.50	22	-0.052	71		14	500	450	±0.02	550	±4.0	19	+0.52 0	5.0	8	550	630	22	990	

Remark: 1) R is distance from flange to shaft shoulder.

■ Ordering information

- ◆ Please specify the motor type, output, rated voltage, rated frequency, poles (or rated speed), frequency range, mounting type, duty cycle and ect.
- ◆ If no special indication, normally the terminal box is on the top of the motor, cable entry facing the non driving end, and customer can specify the orientation of the cable entry.
- ◆ Any special requirement please specify when in enquiry.
- ◆ The technical data in the catalogue is only for reference, and may not inform you immediately.

All data listed in the tables are indicative and not binding. The guaranteed values are upon request. Felm srl reserves the right to change the project, the technical characteristics and dimensions at any time without previous notice.



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