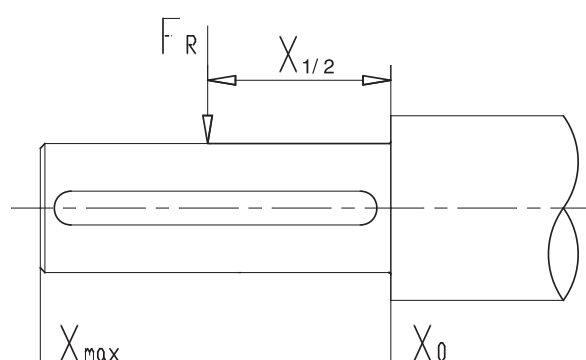


**WE HELP TO BUILD
SUCCESSFUL BUSINESS**



PERMISSIBLE RADIAL LOADS FOR HORIZONTAL AND VERTICAL MOUNTING



The following table give the permissible radial forces in Newton, assuming zero axial force and standard ball bearings. In case of higher radial than give in the table an enforced bearing should be ordered. The values are based on normal conditions at 50 Hz and calculated at 20.000 working hours for the two pole motors and 40.000 working hours for 4,6 and 8 poles. For 60 Hz the value must be reduced by 10%. For two speed motors, the values have to be based at the higher speed.

Pulley Diameter

When the desired bearing life has been determined, the minimum pulley diameter can be calculated with the following formule:

$$D = \frac{1.9 \cdot 10^7 \cdot k \cdot P_N}{n_N \cdot F_R}$$

D—diameter of the pulley (mm)

P_N—power of the motor (kW)

n_N—motor rated speed(r/min)

k—belt tension factor ,k=2.5 for V-belt

F_{R(X)}—permissible radial force (N)

F_R=F_{X0} - $\frac{X}{E}$ (FX0Fxmax) (N)

E—the length of the shaft diameter (mm)

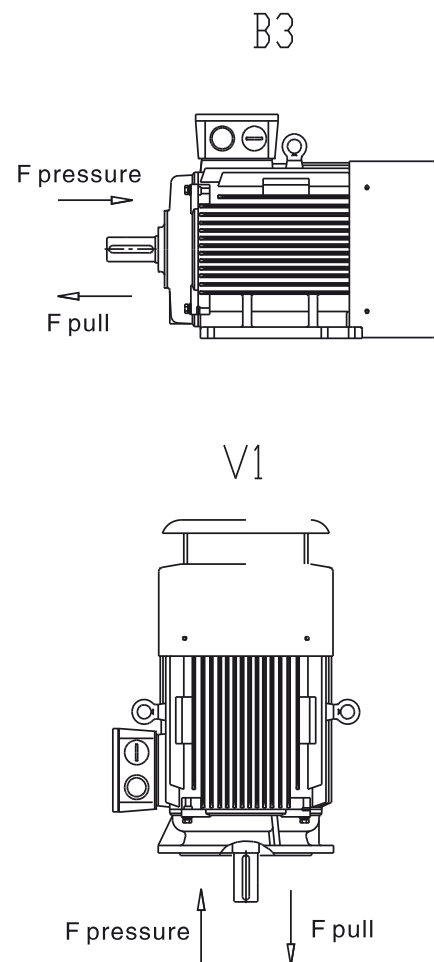
TABLE 3

SIZE	POLE	Maximum radial force (F _R)		
		X ₀	X _{1/2}	X _{max}
56	2	250	180	100
56	4	250	180	100
63	2	360	300	230
63	4	360	300	230
71	2	470	400	320
71	4	470	400	320
71	6	470	400	320
80	2	670	610	550
80	4	730	650	590
80	6	830	750	680
80	8	920	820	750
90	2	740	660	590
90	4	800	710	630
90	6	920	810	730
90	8	1010	890	800
100	2	1030	920	820
100	4	1110	990	890
100	6	1270	1130	1020
100	8	1400	1240	1120
112	2	1490	1330	1200
112	4	1600	1430	1290
112	6	1840	1640	1480
112	8	2020	1800	1630
132	2	2160	1900	1690
132	4	2330	2040	1820
132	6	2670	2340	2080
132	8	2940	2570	2290
160	2	2800	2440	2170
160	4	3000	2630	2330
160	6	3440	3010	2670
160	8	3850	3410	3060
180	2	3930	3500	3150
180	4	4240	3770	3390
180	6	4890	4390	3980
180	8	5380	4830	4380
200	2	4480	4050	3700
200	4	4820	4360	3980
200	6	5520	5000	4560
200	8	6080	5500	5020
225	2	5000	4540	4160
225	4	5360	4720	4210
225	6	6180	5480	4920
225	8	6750	5940	5310
250	2	5680	5100	4620
250	4	6120	5490	4980
250	6	7000	6280	5700
250	8	7710	6920	6270
280	2	5620	5080	4640
280	4	7790	7050	6430
280	6	8920	8060	7360
280	8	9820	8880	8100
315	2	7370	6840	6390
315	4	9150	8370	7720
315	6	10480	9590	8830
315	8	11530	10550	9720
355*	2	16330	15390	8730
355*	4	28300	25860	14290
355*	6	32400	29600	16350
355*	8	35660	32580	18000
400*	4	33730	31140	19280
400*	6	38610	35650	22070
400*	8	42500	39240	24290

PERMISSIBLE AXIAL LOADS FOR HORIZONTAL AND VERTICAL MOUNTING

TABLE 3

SIZE	POLE	Maximum axial force (F _A)			
		B3 F pressure	B3 F pull	V1 F pressure	V1 F pull
56	2	200	200	230	180
56	4	240	240	260	200
63	2	250	250	260	230
63	4	280	280	300	260
71	2	270	270	290	255
71	4	350	350	370	320
71	6	440	440	460	420
80	2	380	380	400	360
80	4	470	470	490	450
80	6	590	590	620	560
80	8	620	620	650	595
90	2	440	440	470	410
90	4	550	550	600	510
90	6	620	620	680	460
90	8	640	640	700	580
100	2	610	610	670	570
100	4	750	750	840	710
100	6	880	880	970	820
100	8	895	895	970	845
112	2	1220	1220	1300	1170
112	4	1440	1440	1520	1370
112	6	1650	1650	1740	1580
112	8	1780	1780	1880	1710
132	2	1500	1500	1620	1430
132	4	1780	1780	1970	1610
132	6	1820	1820	2000	1660
132	8	1920	1920	2100	1760
160	2	1650	1650	1950	1350
160	4	2100	2100	2470	1720
160	6	2450	2450	2800	2050
160	8	2650	2650	3050	2210
180	2	2100	2100	2450	1720
180	4	2600	2600	3200	2000
180	6	2900	2900	3510	2280
180	8	3170	3170	3780	2550
200	2	2400	2400	2940	1840
200	4	3120	3120	3850	2390
200	6	3480	3480	4350	2610
200	8	3950	3950	4810	3090
225	2	2720	2720	3420	2020
225	4	3480	3480	4370	2590
225	6	3890	3890	5040	2820
225	8	4330	4330	5330	3330
250	2	3100	3100	3940	2260
250	4	3900	3900	5000	2800
250	6	4450	4450	5570	3230
250	8	4980	4980	6380	3580
280	2	5300	3100	6500	2100
280	4	6300	4400	7800	3000
280	6	6700	4300	7900	2900
280	8	7100	5020	9100	3520
315	2	5900	3800	8000	2000
315	4	7100	5100	10700	3150
315	6	7600	5800	11800	3500
315	8	8100	6300	12500	4400
355*	2	6100	1850	14000	800
355*	4	9800	3900	18300	2500*
355*	6	10500	4700	20700	3500*
355*	8	12500	6000	21500	3600*
400*	4	11200	3900	18500	1600*
400*	6	12500	4800	19500	2200*
400*	8	12800	4950	21500	2900*



The following table gives the permissible axial forces in Newton, assuming zero radial force. In this case motor should be ordered with standard ball bearings. In case of higher axial force than given in the table an angular contact bearing should be ordered. The values are based on normal conditions at 50HZ and calculated at 20000 working hour for two pole motors and 40000 hours for 4,6 and 8 pole motors. At 60HZ the values must be reduced by 10%. For two-speed motors, the values have to be based at the higher speed.

F_{pressure} is calculated for a fixed bearing at the DE.

NOISE LEVEL

Frame Size	Synchronous speed r/min					
	3000	1500	1000	750	600	500
	Sound pressure level in dB(A)					
	noload	noload	noload	noload	noload	noload
0.37	/	/	44	42	39	43
0.55	/	45	44	42	39	43
0.75	56	45	46	43	42	47
1.1	55	49	46	43	42	53
1.5	60	49	50	46	47	53
2.2	60	48	52	48	49	59
3	64	49	55	49	54	59
4	65	49	55	54	54	59
5.5	68	52	55	54	57	61
7.5	68	54	59	55	57	61
11	74	54	59	57	59	64
15	74	59	59	58	59	68
18.5	74	59	63	60	59	71
22	77	61	63	60	63	71
30	79	62	63	62	63	74
37	79	63	64	63	63	74
45	79	67	66	63	65	74
55	80	67	66	64	65	74
75	81	69	68	64	65	71
90	82	72	68	65	65	71
110	84	72	69	65	67	71
132	84	75	69	70	67	/
160	85	75	70	70	67	/
200	85	77	71	71	67	/
250	88	77	71	71	67	/
280	88	77	71	71	67	/
315	88	81	74	73	/	/
355	88	81	74	73	/	/
400	92	81	74	73	/	/
450	92	84	74	/	/	/
500	92	84	74	/	/	/
560	/	86	/	/	/	/

Frame Size	Synchronous speed r/min			
	3000	1500	1000	750
	Sound pressure level in dB(A)			
	noload	noload	noload	noload
0.2	65	58	/	/
0.4	68	60	59	59
0.75	72	62	60	59
1.5	74	65	60	60
2.2	76	66	61	60
3.7	79	70	63	62
5.5	82	72	65	65
7.5	83	75	68	67
11	85	76	70	69
15	85	80	72	70
18.5	88	80	75	74
22	88	80	77	75
30	89	82	79	75
37	89	83	79	75
45	91	84	81	77
55	91	84	82	77
75	92	87	82	80
90	92	87	82	80
110	94	87	83	80
132	94	90	83	/
160	94	90	83	/
200	94	90	/	/

Frame Size	Synchronous speed r/min					
	3000	1500	1000	750	600	500
	Sound pressure level in dB(A)					
H355	85	82	78	75	70	70
H400	90	85	82	78	73	73
H450	93	90	86	82	77	77
H500	/	94	88	85	80	80
H560	/	/	88	85	80	80

Frame Size	Synchronous speed r/min					
	3000	1500	1000	750	600	500
	Sound pressure level in dB(A)					
	noload	noload	noload	noload	noload	noload
0.09	/	/	/	/	40	/
0.12	/	45	/	/	40	/
0.18	50	45	45	42	40	40
0.25	50	46	45	42	40	40
0.37	54	46	46	44	40	44
0.55	54	47	46	44	40	44
0.75	57	47	48	45	43	48
1.1	57	51	48	45	43	54
1.5	62	51	52	48	48	54
2.2	62	52	54	50	50	60
3	66	52	57	51	55	60
4	67	55	57	56	55	60
5.5	70	57	57	56	58	62
7.5	70	57	61	57	58	62
11	76	62	61	59	60	65
15	76	62	61	60	60	69
18.5	76	64	65	62	60	72
22	79	65	65	62	64	72
30	81	66	65	64	64	75
37	81	70	66	65	64	75
45	81	70	68	65	66	75
55	82	72	68	66	66	75
75	83	75	70	66	66	72
90	84	75	70	67	66	72
110	86	78	71	67	68	72
132	86	78	71	72	68	/
160	87	80	72	72	68	/
200	87	80	73	73	68	/
250	90	84	73	73	68	/
280	90	84	73	73	68	/
315	90	84	76	75	/	/
355	90	84	76	75	/	/
400	94	87	76	75	/	/
450	94	87	76	/	/	/
500	94	89	76	/	/	/
560	/	89	/	/	/	/

Frame Size	Synchronous speed r/min			
	3000	1500	1000	750
	Sound pressure level in dB(A)			
	noload	noload	noload	noload
11	/	66	63	62
15	72	66	63	62
18.5	72	66	63	63
22	72	67	65	63
30	77	67	65	64
37	77	68	67	65
45	81	68	68	65
55	81	70	68	67
75	82	73	70	67
90	83	73	70	68
110	83	74	71	68
132	83	74	71	68
160	84	81	74	68
180	/	/	74	/
200	84	81	75	72
225	/	/	75	72
250	84	82	75	73
280	84	82	76	73
315	85	83	76	73
355	85	83	76	/
400	85	83	76	/
450	85	/	76	/
500	86	84	76	/
560	86	84	/	/
630	86	84	/	/
710	86	84	/	/

TECHNICAL DATA OMT2

Motor Type	Rated Power	Current			Rated Speed	Power factor	Efficiency		Locked Current Rated Current	Locked Torque Rated Torque	Maximum Torque Rated Torque	Moment Of Inertia $J=\frac{1}{2}GD^2$ kgm	Weight kg
		380V	400V	420V			100%	75%					
	P _N kW	I _U A	I _N A	I ₀ A	n _N r/min	COSφ	η %		I _s /I _N	M _s /M _N	M _M /M _N		
OMT2: 2 Pole –3000 r/min													
OMT2 56K2	0.09	0.26	0.26	0.25	2700	0.78	63.0	62.1	5.0	2.2	2.2	0.000053	3.9
OMT2 56G2	0.12	0.36	0.34	0.32	2700	0.79	65.0	64.2	5.0	2.2	2.2	0.000057	3.5
OMT2 63K2	0.18	0.53	0.50	0.48	2720	0.80	66.0	65.2	5.0	2.2	2.2	0.000100	3.9
OMT2 63G2	0.25	0.69	0.66	0.63	2720	0.81	68.0	68.1	5.0	2.2	2.2	0.000113	4.6
OMT2 71K2	0.37	0.99	0.94	0.90	2740	0.81	70.0	69.1	6.1	2.2	2.2	0.000348	6.3
OMT2 71G2	0.55	1.40	1.33	1.27	2740	0.82	73.0	72.5	6.1	2.2	2.3	0.000400	6.4
OMT2 80K2	0.75	1.83	1.81	1.66	2845	0.83	75.0	74.1	7.0	2.2	2.3	0.000916	8.0
OMT2 80G2	1.1	2.62	2.49	2.37	2865	0.84	76.2	75.3	7.0	2.2	2.3	0.000990	9.2
OMT2 90S2	1.8	3.46	3.28	3.13	2875	0.84	78.5	78.1	7.0	2.2	2.3	0.002462	13.1
OMT2 90L2	2.2	4.85	4.61	4.39	2865	0.85	81.0	81.3	7.0	2.2	2.3	0.002815	14.7
OMT2 100L2	3.0	6.34	6.03	5.74	2880	0.87	82.8	82.5	7.5	2.2	2.3	0.002930	21.5
OMT2 112M2	4.0	8.20	7.79	7.42	2880	0.88	84.2	85.5	7.5	2.2	2.3	0.003021	27.0
OMT2 132S2	5.5	11.0	10.5	10.1	2925	0.88	85.7	85.3	7.5	2.2	2.3	0.006496	42.0
OMT2 132SX2	7.5	14.9	14.1	13.5	2930	0.88	87.0	87.3	7.5	2.2	2.3	0.007738	46.2
OMT2 160M2	11.0	21.3	20.2	19.3	2935	0.89	88.4	88.5	7.5	2.2	2.3	0.013500	72.0
OMT2 160MX2	15.0	26.7	27.2	25.9	2935	0.89	89.4	88.6	7.5	2.2	2.3	0.018560	79.0
OMT2 180L2	18.5	34.7	33.0	31.4	2935	0.90	90.0	90.1	7.5	2.2	2.3	0.027000	87.0
OMT2: 4 Pole –1500 r/min													
OMT2 56K4	0.06	0.28	0.27	0.25	1300	0.63	51.5	49.8	5.2	2.3	2.2	0.000064	3.3
OMT2 56G4	0.09	0.39	0.37	0.33	1300	0.66	53.5	53.2	5.2	2.3	2.2	0.000070	3.5
OMT2 63K4	0.12	0.44	0.42	0.40	1310	0.72	57.0	54.5	5.2	2.3	2.2	0.000117	3.7
OMT2 63G4	0.18	0.62	0.59	0.56	1310	0.73	60.0	58.1	5.2	2.3	2.2	0.000136	4.2
OMT2 71K4	0.25	0.79	0.75	0.71	1330	0.74	65.0	63.2	5.2	2.3	2.2	0.000423	6.3
OMT2 71G4	0.37	1.12	1.06	1.00	1330	0.75	67.0	65.4	5.2	2.3	2.2	0.000468	7.0
OMT2 80K4	0.55	1.57	1.49	1.42	1415	0.75	71.0	69.4	6.0	2.3	2.3	0.001146	9.2
OMT2 80G4	0.75	2.05	1.95	1.86	1410	0.76	73.0	71.7	6.0	2.3	2.3	0.001263	10.2
OMT2 90S4	1.1	2.85	2.71	2.58	1420	0.77	76.2	76.5	6.0	2.3	2.3	0.002761	13.1
OMT2 90L4	1.5	3.68	3.49	3.33	1420	0.79	78.5	78.4	6.0	2.3	2.3	0.002700	15.5
OMT2 100L4	2.2	5.95	4.94	4.61	1440	0.81	81.0	79.5	7.0	2.3	2.3	0.003289	20.4
OMT2 100LX4	3.0	6.73	6.39	6.09	1445	0.82	82.6	81.9	7.0	2.3	2.3	0.006700	24.1
OMT2 112M4	4.0	8.80	8.36	7.96	1460	0.82	84.2	84.4	7.0	2.3	2.3	0.008600	30.0
OMT2 132S4	5.5	11.5	11.2	10.6	1450	0.83	85.7	85.5	7.0	2.3	2.3	0.020500	44.2
OMT2 132M4	7.5	15.6	14.6	14.1	1455	0.84	87.0	87.3	7.0	2.3	2.3	0.029600	55.3
OMT2 160M4	11.0	22.5	21.4	20.4	1465	0.84	88.4	88.8	7.0	2.2	2.3	0.072400	80.0
OMT2 160L4	15.0	30.0	28.6	27.2	1470	0.85	89.4	89.9	7.5	2.2	2.3	0.092900	87.0
OMT2: 6 Pole –1000 r/min													
OMT2 70K6	0.18	0.74	0.70	0.67	950	0.66	56.0	55.2	4.0	1.9	2.0	0.000423	6.4
OMT2 70G6	0.25	0.95	0.90	0.84	950	0.68	59.0	57.6	4.0	1.9	2.0	0.000468	6.6
OMT2 80K6	0.37	1.30	1.23	1.17	905	0.70	62.0	57.55.0	4.7	1.9	2.2	0.001294	9.0
OMT2 80G6	0.55	1.79	1.70	1.62	908	0.72	65.0	64.0	4.7	1.9	2.2	0.001391	9.6
OMT2 90S6	0.75	2.29	2.18	2.08	928	0.72	69.0	68.2	5.5	2.0	2.3	0.003210	12.6
OMT2 90L6	1.1	3.18	3.02	2.88	920	0.73	72.0	71.8	5.5	2.0	2.3	0.003794	14.7
OMT2 100L6	1.5	4.00	3.80	3.62	930	0.75	79.0	76.6	5.5	2.0	2.2	0.004605	20.5
OMT2 112M6	2.2	5.57	5.29	5.04	945	0.76	79.0	78.7	6.5	2.0	2.2	0.006949	29.0
OMT2 132S6	3.0	7.40	7.03	6.70	965	0.76	81.0	80.3	6.5	2.1	2.5	0.012912	39.5
OMT2 132M6	4.0	9.75	9.26	8.92	965	0.76	82.0	81.6	6.5	2.1	2.5	0.016082	47.2
OMT2 132MX6	5.5	12.9	12.3	11.7	985	0.77	84.0	83.5	6.5	2.1	2.5	0.019174	56.8
OMT2 160M6	7.5	17.2	16.3	15.6	970	0.77	86.0	86.1	6.5	2.0	2.3	0.1212	75.0
OMT2 160L6	11	24.5	23.3	22.2	970	0.78	87.5	87.8	6.4	2.0	2.3	0.1452	78.2
OMT2: 8 Pole –750 r/min													
OMT2 80K8	0.18	0.88	0.84	0.80	693	0.61	51.0	49.9	3.3	1.8	1.9	0.001146	8.5
OMT2 80G8	0.25	1.15	1.10	1.04	699	0.61	54.0	51.9	3.3	1.8	1.9	0.001263	9.4
OMT2 90S8	0.37	1.49	1.41	1.34	691	0.61	62.0	59.0	4.0	1.8	1.9	0.003160	12.5
OMT2 90L8	0.55	2.17	2.07	1.97	703	0.61	63.0	60.1	4.0	1.8	2.0	0.003794	15.7
OMT2 100L8	0.75	2.40	2.28	2.17	695	0.67	71.0	68.9	4.0	1.8	2.0	0.004311	19.6
OMT2 100LX8	1.1	3.32	3.15	3.00	696	0.69	73.0	72.5	5.0	1.8	2.0	0.005095	22.9
OMT2 112M8	1.5	4.40	4.18	3.98	700	0.69	75.0	73.9	5.0	1.8	2.0	0.008349	30.2
OMT2 132S8	2.2	6.04	5.73	5.46	715	0.71	78.0	76.9	6.0	1.8	2.0	0.012912	42.0
OMT2 132M8	3.0	7.90	7.51	7.15	713	0.73	79.0	73.2	6.0	1.8	2.0	0.018082	47.0
OMT2 160M8	4.0	10.3	9.79	9.32	718	0.73	81.0	79.1	6.0	2.1	2.2	0.031230	70.1
OMT2 160MX8	5.5	13.6	12.9	12.3.9	722	0.74	83.0	82.2	6.0	2.1	2.2	0.034567	75.2
OMT2 160L8	7.5	17.8	16.9	16.1	721	0.75	85.5	83.3	6.0	2.0	2.2	0.038910	81.5

TECHNICAL DATA OMT2-IE2

IE2

Motor Type	Rated Power	Current 400 V	Rated Speed	Power Factor	Efficiency	Locked Current / Rated Current	Locked Torque / Rated Torque	Maximum Torque / Rated Torque	Moment Of Inertia	Weight
	P_N kW	I_N A	n_N r/min	$\cos\phi$	η %	I_s/I_N	M_s/M_N	M_M/M_N	$J=\frac{1}{2}GD^2$ kg m ²	kg

OMT2-IE2(aluminum): 2 Pole –3000 r/min

OMT2 80K2	0.75	1.81	2845	0.82	77.4	7.0	2.2	2.3	0.0011	9
OMT2 80G2	1.1	2.34	2865	0.83	79.6	7.4	2.2	2.3	0.0013	9.9
OMT2 90S2	1.5	3.10	2875	0.84	81.3	7.0	2.2	2.3	0.00185	13.7
OMT2 90L2	2.2	4.26	2865	0.85	83.2	7.0	2.2	2.3	0.00215	15.4
OMT2 100L2	3.0	5.81	2880	0.87	84.6	7.5	2.2	2.5	0.00425	22.5
OMT2 112M2	4.0	7.16	2880	0.88	85.8	7.5	2.2	2.5	0.0068	28.5
OMT2 132S2	5.5	10.1	2925	0.88	87.0	7.5	2.2	2.5	0.01456	44
OMT2 132SX2	7.5	13.9	2930	0.88	88.1	7.5	2.2	2.5	0.01565	49
OMT2 160M2	11.0	19.3	2935	0.89	89.4	7.5	2.2	2.5	0.0549	74
OMT2 160MX2	15.0	26.3	2935	0.89	90.3	7.5	2.2	2.5	0.0635	82
OMT2 160L2	18.5	31.8	2935	0.90	90.9	7.5	2.2	2.5	0.0725	90

OMT2-IE2(aluminum): 4 Pole –1500 r/min

OMT2 80G4	0.75	1.71	1410	0.76	79.6	6.5	2.3	2.3	0.00165	10.5
OMT2 90S4	1.1	2.49	1420	0.77	81.4	7.1	3.1	3.4	0.00232	13.8
OMT2 90L4	1.5	3.22	1420	0.79	82.8	7.1	3.2	3.4	0.00312	16.5
OMT2 100L4	2.2	4.59	1440	0.81	84.3	7.8	3.0	3.5	0.00779	21.5
OMT2 100L4	3.0	6.19	1445	0.82	85.5	7.5	2.8	3.4	0.00865	25.3
OMT2 112M4	4.0	7.78	1460	0.82	86.6	7.2	2.5	3.5	0.01185	32.0
OMT2 132S4	5.5	11.0	1450	0.83	87.7	7.1	2.4	3.3	0.03301	47.0
OMT2 132M4	7.5	14.5	1455	0.84	88.7	7.6	2.5	3.8	0.04121	58.0
OMT2 160M4	11.0	20.8	1465	0.84	89.8	6.9	2.1	2.8	0.1052	81.0
OMT2 160L4	15.0	28.1	1470	0.85	90.6	7.5	2.3	3.1	0.1123	91.0

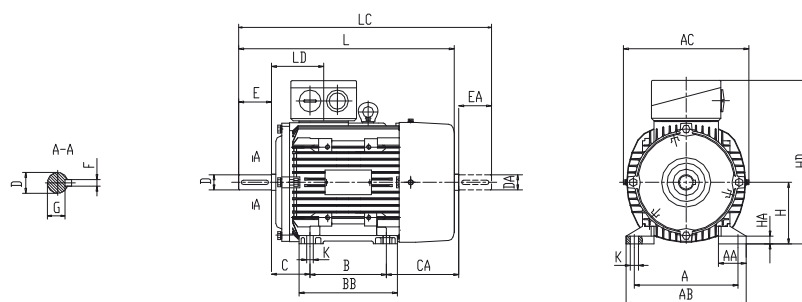
OMT2-IE2(aluminum): 6 Pole –1000 r/min

OMT2 90S6	0.75	2.00	925	0.72	75.9	5.5	2.0	2.3	0.00321	14
OMT2 90L6	1.1	2.76	920	0.73	78.1	5.5	2.0	2.3	0.00412	16
OMT2 100L6	1.5	3.52	930	0.75	79.8	5.5	2.0	2.2	0.00645	20
OMT2 112M6	2.2	5.05	945	0.76	81.8	6.5	2.0	2.2	0.01326	30
OMT2 132S6	3.0	6.76	965	0.76	83.3	6.5	2.1	2.5	0.03716	45
OMT2 132M6	4.0	8.86	965	0.76	84.6	6.5	2.1	2.5	0.04889	50
OMT2 132MX6	5.5	11.8	965	0.77	86.0	6.5	2.1	2.5	0.05845	62
OMT2 160M6	7.5	15.9	970	0.77	87.2	6.5	2.0	2.3	0.1212	79
OMT2 160L6	11	22.7	970	0.78	88.7	6.4	2.0	2.3	0.1452	82

B3-B35 DIMENSIONS

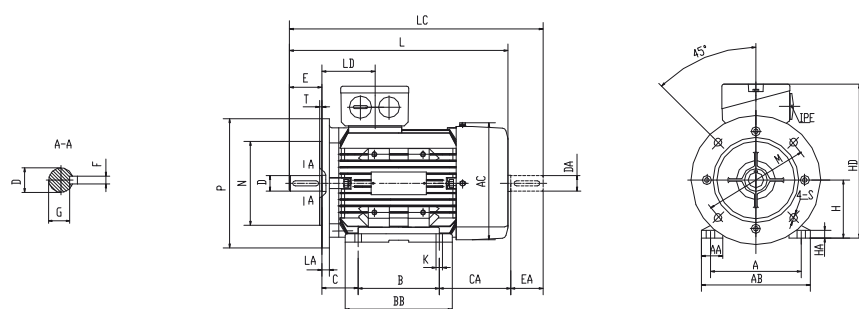
ALUMINIUM SERIES

The shaft dimension and the second shaft dimension will be showed in another table.



B3

Frame	Pole	Dimension							Dimension						
		A	B	C	CA	H	K	AA	AB	AC	BB	HD	LD	L	LC
56	2, 4	90	71	36	70	56 ⁰ _{-0.5}	6	25	110	120	90	7	149	61	192
63	2, 4	100	80	40	77	63 ⁰ _{-0.5}	7	30	120	120	105	8	160	61	215
71	2-6	112	90	45	85	71 ⁰ _{-0.5}	7	30	136	150	106	9	175	72	245
80	2-8	125	100	50	110	80 ⁰ _{-0.5}	10	41	150	170	130	10	225	82	295
90S	2-8	140	100	56	139	90 ⁰ _{-0.5}	10	47	168	190	165	12	245	82	340
90L	2-8	140	125	56	114	90 ⁰ _{-0.5}	10	47	168	190	165	12	245	82	340
100L	2-8	160	140	63	127	100 ⁰ _{-0.5}	12	45	190	206	176	12	280	92	385
112M	2-8	190	140	70	130	112 ⁰ _{-0.5}	12	53	220	230	180	14	305	94	395
132S	2-8	216	140	89	201	132 ⁰ _{-0.5}	12	60	252	265	224	15	355	106	510
132M	2-8	216	178	89	163	132 ⁰ _{-0.5}	12	60	252	265	224	15	355	106	510
160M	2-8	254	210	108	183	160 ⁰ _{-0.5}	15	73	310	320	325	20	425	146	606
160L	2-8	254	254	108	183	160 ⁰ _{-0.5}	15	73	310	320	325	20	425	146	650



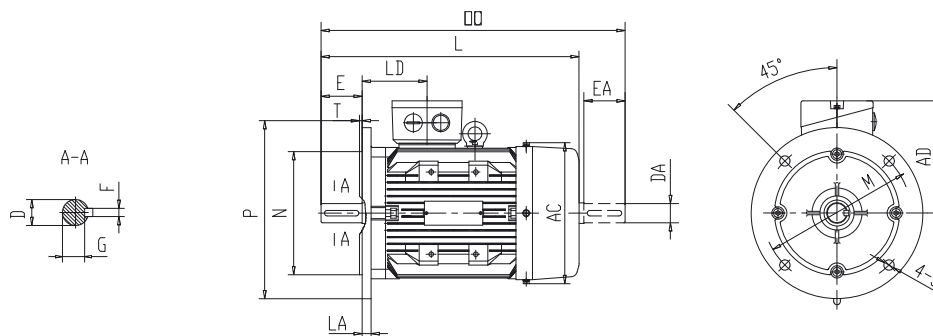
B35

Frame	Pole	Dimension													Dimension											
		A	B	C	CA	H	K	M	N	P	R	S	T	AA	AB	AC	BB	HA	HD	LA	LD	L	LC			
56	2, 4	90	71	36	70	56 ⁰ _{-0.5}	6	100	80	120	0	4-Ø7	3	25	110	120	90	7	149	9	61	192	217			
63	2, 4	100	80	40	77	63 ⁰ _{-0.5}	7	115	95	140	0	4-Ø10	3	30	120	120	105	8	160	9	61	211	239			
71	2-6	112	90	45	85	71 ⁰ _{-0.5}	7	130	110	160	0	4-Ø10	3	30	136	150	106	9	175	10	72	240	275			
80	2-8	125	100	50	110	80 ⁰ _{-0.5}	10	165	130	200	0	4-Ø15	4	41	150	170	130	10	225	12	82	284	329			
90S	2-8	140	100	56	139	90 ⁰ _{-0.5}	10	165	130	200	0	4-Ø12	4	47	168	190	165	12	245	12	82	316	371			
90L	2-8	140	125	56	114	90 ⁰ _{-0.5}	10	165	130	200	0	4-Ø12	4	47	168	190	165	12	245	12	82	341	396			
100L	2-8	160	140	63	127	100 ⁰ _{-0.5}	12	215	180	250	0	4-Ø15	4	45	190	206	176	12	280	13	92	377	442			
112M	2-8	190	140	70	130	112 ⁰ _{-0.5}	12	215	180	250	0	4-Ø15	4	53	220	230	180	14	305	14	94	392	457			
132S	2-8	216	140	89	201	132 ⁰ _{-0.5}	12	265	230	300	0	4-Ø15	4	60	252	265	224	15	355	14	106	463	548			
132M	2-8	216	178	89	163	132 ⁰ _{-0.5}	12	265	230	300	0	4-Ø15	4	60	252	265	224	15	355	14	106	501	586			
160M	2-8	254	210	108	183	160 ⁰ _{-0.5}	15	300	250	350	0	4-Ø19	5	73	310	320	325	20	425	15	146	606	721			
160L	2-8	254	254	108	183	160 ⁰ _{-0.5}	15	300	250	350	0	4-Ø19	5	73	310	320	325	20	425	15	146	650	765			

B5-B14 DIMENSIONS

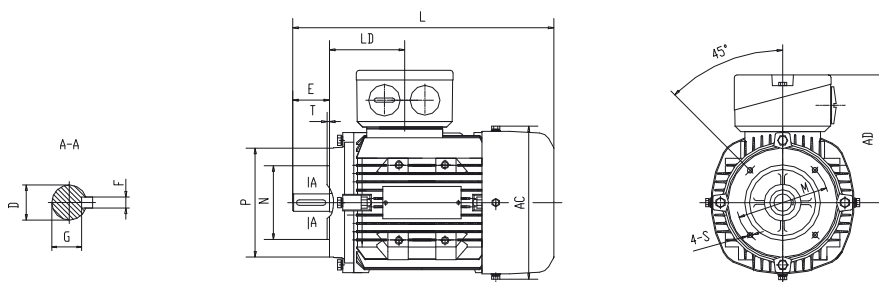
ALUMINIUM SERIES

The shaft dimension and the second shaft dimension will be showed in another table.



B5

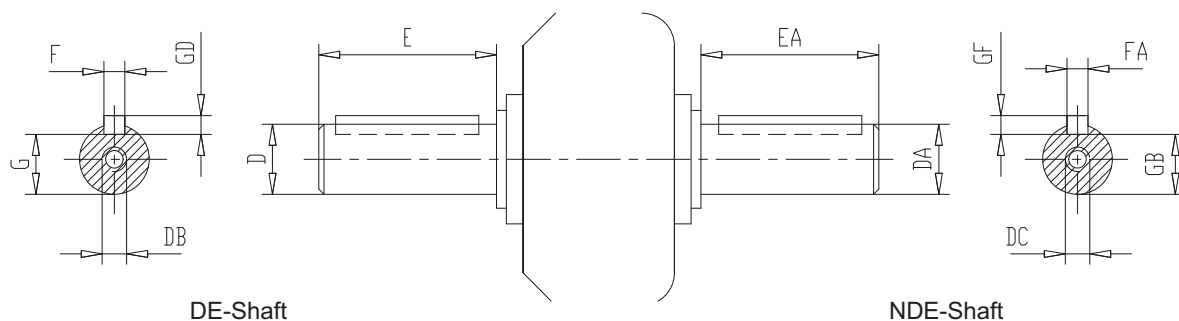
Frame	Pole	Dimension							Dimension					
		M	N	P	R	S	T		AC	AD	L	LA	LC	LD
56	2-4	100	80	120	0	Φ7	3		108	93	192	9	217	61
63	2-4	115	95	140	0	Φ10	3		120	97	215	9	243	61
71	2-6	130	110	160	0	Φ10	3		140	104	245	10	280	72
80	2-8	165	130	200	0	Φ12	4		160	113	295	12	340	82
90S	2-8	165	130	200	0	Φ12	4		175	123	340	12	395	82
90L	2-8	165	130	200	0	Φ12	4		175	123	340	12	395	82
100L	2-8	215	180	250	0	Φ15	4		195	157	385	13	450	92
112M	2-8	215	180	250	0	Φ15	4		220	163	395	14	460	94
132S	2-8	265	230	300	0	Φ15	4		265	183	510	14	595	106
132M	2-8	265	230	300	0	Φ15	4		265	183	510	14	595	106
160M	2-8	300	250	350	0	Φ19	5		320	223	606	15	721	146
160L	2-8	300	250	350	0	Φ19	5		320	223	650	15	765	146



B14

Frame	Pole	Dimension											Dimension			
		D	E	F	G	M	N	P	R	S	T		AC	AD	L	LD
56	2-4	9	20	3	7	65	50	80	0	M5	2		108	93	192	61
63	2-4	11	23	4	8.5	75	60	90	0	M5	2.5		120	97	211	61
71	2-6	14	30	5	11	85	70	105	0	M6	2.5		140	104	240	72
80	2-8	19	40	6	15.5	100	80	120	0	M6	3		160	113	284	82
90S	2-8	24	50	8	20	115	95	140	0	M8	3		175	123	316	82
90L	2-8	24	50	8	20	115	95	140	0	M8	3		175	123	341	82
100L	2-8	28	60	8	24	130	110	160	0	M8	3.5		195	157	377	92
112M	2-8	28	60	8	24	130	110	160	0	M8	3.5		220	163	392	94
132S	2-8	38	80	10	33	165	130	200	0	M10	3.5		265	183	463	106
132M	2-8	38	80	10	33	165	130	200	0	M10	3.5		265	183	501	106
160M	2-8	42	110	12	37	215	180	250	0	M12	4		320	223	606	146
160L	2-8	42	110	12	37	215	180	250	0	M12	4		320	223	650	146

Shaft dimensions



B3, B35, B5, B34

Frame	Pole	D	DA	E	EA	F	FA	G	GB	GD	GF	DB	DC
56	2, 4	$\Phi 9j6 \begin{smallmatrix} (-0.007) \\ (-0.002) \end{smallmatrix}$	$\Phi 9j6 \begin{smallmatrix} (-0.007) \\ (-0.002) \end{smallmatrix}$	20	20	3	3	7	7	3	3	M3	M3
63	2, 4	$\Phi 11j6 \begin{smallmatrix} (+0.008) \\ (-0.003) \end{smallmatrix}$	$\Phi 11j6 \begin{smallmatrix} (+0.008) \\ (-0.003) \end{smallmatrix}$	23	23	4	4	8.5	8.5	4	4	M4	M4
71	2, 4, 6	$\Phi 14j6 \begin{smallmatrix} (+0.008) \\ (-0.003) \end{smallmatrix}$	$\Phi 14j6 \begin{smallmatrix} (+0.008) \\ (-0.003) \end{smallmatrix}$	30	30	5	5	11	11	5	5	M5	M5
80	2, 4, 6, 8	$\Phi 19j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	$\Phi 19j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	40	40	6	6	15.5	15.5	6	6	M6	M6
90S	2, 4, 6, 8	$\Phi 24j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	$\Phi 24j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	50	50	8	8	20	20	7	7	M8	M8
90L	2, 4, 6, 8	$\Phi 24j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	$\Phi 24j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	50	50	8	8	20	20	7	7	M8	M8
100L	2, 4, 6, 8	$\Phi 28j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	$\Phi 28j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	60	60	8	8	24	24	7	7	M10	M10
112M	2, 4, 6, 8	$\Phi 28j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	$\Phi 28j6 \begin{smallmatrix} (+0.009) \\ (-0.004) \end{smallmatrix}$	60	60	8	8	24	24	7	7	M10	M10
132S	2, 4, 6, 8	$\Phi 38k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 38k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	80	80	10	10	33	33	8	8	M12	M12
132M	2, 4, 6, 8	$\Phi 38k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 38k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	80	80	10	10	33	33	8	8	M12	M12
160M	2, 4, 6, 8	$\Phi 42k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 42k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	12	12	37	37	8	8	M16	M16
160L	2, 4, 6, 8	$\Phi 42k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 42k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	12	12	37	37	8	8	M16	M16
180M	2, 4	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	14	14	42.5	42.5	9	9	M16	M16
180L	4, 6, 8	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	14	14	42.5	42.5	9	9	M16	M16
200L	2	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	16	14	49	42.5	10	9	M20	M20
	4, 6, 8	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	110	110	16	16	49	49	10	10	M20	M20
225S	4, 6, 8	$\Phi 60m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	53	49	11	10	M20	M20
225M	2	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 48k6 \begin{smallmatrix} (-0.018) \\ (-0.002) \end{smallmatrix}$	110	110	16	14	49	42.5	10	9	M20	M20
	4, 6, 8	$\Phi 60m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	53	49	11	10	M20	M20
250M	2	$\Phi 60m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	53	49	11	10	M20	M20
	4, 6, 8	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	58	49	11	10	M20	M20
280S	2	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	58	49	11	10	M20	M20
	4, 6, 8	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	20	18	67.5	53	12	11	M20	M20
280M	2	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 55m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	110	18	16	58	49	11	10	M20	M20
	4, 6, 8	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	20	18	67.5	53	12	11	M20	M20
315S	2	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	18	18	58	58	11	11	M20	M20
	4, 6, 8	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	170	170	22	22	71	71	14	14	M20	M20
315M	2	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 65m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	18	18	58	58	11	11	M20	M20
315L	4, 6, 8	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	170	170	22	22	71	71	14	14	M20	M20
355M	2	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	20	20	67.5	67.5	12	12	M20	M20
	4, 6, 8	$\Phi 95m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	$\Phi 95m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	170	170	25	25	86	86	14	14	M20	M20
355L	2	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 75m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	140	140	20	20	67.5	67.5	12	12	M20	M20
	4, 6, 8	$\Phi 95m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	$\Phi 95m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	170	170	25	25	86	86	14	14	M20	M20
400M	2	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	$\Phi 80m6 \begin{smallmatrix} (+0.03) \\ (+0.011) \end{smallmatrix}$	170	170	22	22	71	71	14	14	M24	M24
400L	4, 6, 8	$\Phi 110m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	$\Phi 110m6 \begin{smallmatrix} (+0.035) \\ (+0.013) \end{smallmatrix}$	210	210	28	28	100	100	16	16	M24	M24