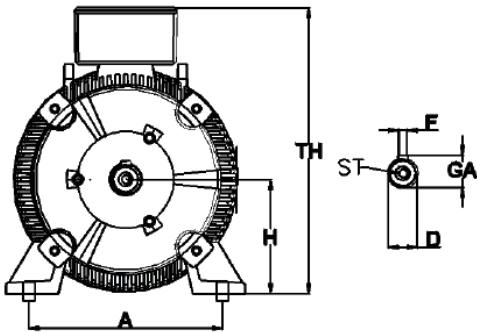
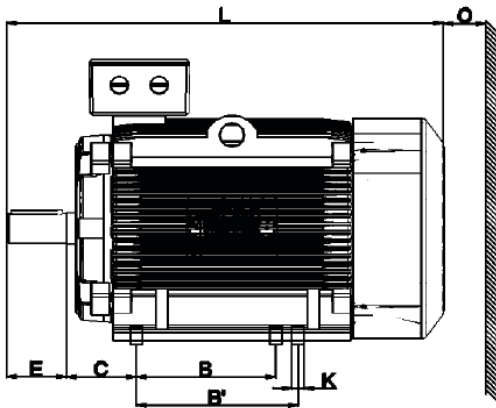


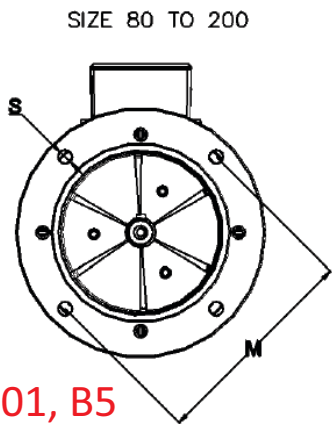
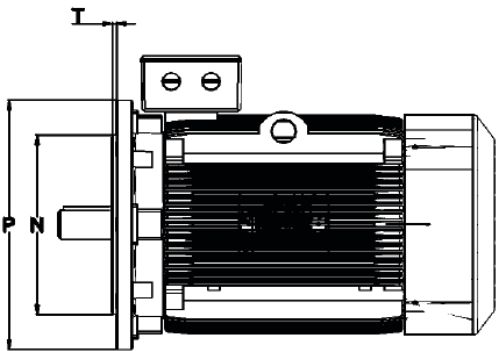
Dimension Drawing
General Performance
IE2 High Efficiency Cast Iron Motors
Size : 80-200



WELLMEC



Foot - Mounted Im 1001, B3



Flange - Mounted Im 3001, B5

FRAME SIZE	D POLES 2 4-8		E POLES 2 4-8		F POLES 2 4-8		ST	GA POLES 2 4-8		MOTOR LENGTH POLES 2 4-8		O	A	B	B'	C	K	H	TH	P	N	M	S	T	BEARING D-end	BEARING N-end
80	19	19	40	40	6	6	M6	21.5	21.5	320	320	40	125	100	125	50	10	80	212	200	130	165	12	3.5	6204ZC3	6204ZC3
90S	24	24	50	50	8	8	M8	27	27	340	340	40	140	100	125	56	10	90	229	200	130	165	12	3.5	6205ZC3	6205ZC3
90L	24	24	50	50	8	8	M8	27	27	360	360	40	140	100	125	56	10	90	229	200	130	165	12	3.5	6205ZC3	6205ZC3
100L	28	28	60	60	8	8	M10	31	31	401	401	50	160	140	-	63	12	100	251	250	180	215	14.5	4.0	6206ZC3	6206ZC3
112M	28	28	60	60	8	8	M10	31	31	443	443	50	190	140	-	70	12	112	281	250	180	215	14.5	4.0	6306ZC3	6306ZC3
132S	38	38	80	80	10	10	M12	41	41			50	216	140	-	89	12	132		300	230	265	14.5	4.0	6308ZC3	6308ZC3
132M	38	38	80	80	10	10	M12	41	41			50	216	140	178	89	12	132		300	230	265	14.5	4.0	6308ZC3	6308ZC3
160M	42	42	110	110	12	12	M16	45	45			60	254	210	-	108	15	160		350	250	300	18.5	5.0	6309ZC3	6309ZC3
160L	42	42	110	110	12	12	M16	45	45			60	254	210	254	108	15	160		350	250	300	18.5	5.0	6309ZC3	6309ZC3
180M	48	48	110	110	14	14	M16	51.5	51.5			70	279	241	-	121	15	180		350	250	300	18.5	5.0	6311ZC3	6311ZC3
180L	48	48	110	110	14	14	M16	51.5	51.5			70	279	241	279	121	15	180		350	250	300	18.5	5.0	6311ZC3	6311ZC3
200L	55	55	110	110	16	16	M20	59	59			80	318	267	305	133	19	200		400	300	350	18.5	5.0	6312ZC3	6312ZC3



IE2 High Efficiency Cast Iron Motors

Wellmec Induction Motor Pvt. Ltd.

Wellmec Induction Motor Pvt. Ltd.

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Technical Data for totally enclosed squirrel cage three phase induction motors

IP 55 - IC 411 - Insulation class F
temperature rise class B
IE 2 efficiency class according to IS 12615 : 2018
2 - pole , 415 V , 50 Hz , IP 55 , Duty S1 , Ambt . 50 deg , Rise class B

3000 r/min = 2 poles													
Rated Output		Frame Size	Speed r/min	% efficiency			power factor cos ø	rated current amps	Starting current to rated current ratio	rated torque kg-m	Starting torque to rated torque ratio	rotor GD² kgm²	Weight kg
Kw	HP			full load 100%	3/4 load 75%	1/2 load 50%							
0.75	1.0	WM80	2870	77.4	77.4	75.7	0.86	1.5	6.0	0.25	2.5	0.0025	19
1.1	1.5	WM80	2850	79.6	79.6	77.9	0.86	2.2	6.0	0.35	2.4	0.0035	20
1.5	2.0	WM90S	2840	81.3	81.3	80.3	0.84	3.1	6.1	0.52	2.6	0.0053	24
2.2	3.0	WM90L	2850	83.2	83.2	82.4	0.84	4.4	6.2	0.75	2.6	0.0065	29
3.7	5.0	WM100L	2870	85.5	85.5	84.2	0.85	6.9	6.1	1.22	2.3	0.0140	39

NOTE :- All performance values are subject to tolerances as per is 15999 : part-1

Technical Data for totally enclosed squirrel cage three phase induction motors

IP 55 - IC 411 - Insulation class F
temperature rise class B
IE 2 efficiency class according to IS 12615 : 2018
4 - pole , 415 V , 50 Hz , IP 55 , Duty S1 , Ambt . 50 deg , Rise class B

1500 r/min = 4 poles													
Rated Output		Frame Size	Speed r/min	% efficiency			power factor cos ø	rated current amps	Starting current to rated current ratio	rated torque kg-m	Starting torque to rated torque ratio	rotor GD² kgm²	Weight kg
Kw	HP			full load 100%	3/4 load 75%	1/2 load 50%							
0.55	0.75	WM80	1430	77.1	77.1	72.5	0.75	1.4	4.0	0.35	1.7	0.0065	17
0.75	1.0	WM80	1430	79.6	79.6	75.0	0.73	1.9	4.2	0.51	1.7	0.0070	19
1.1	1.5	WM90S	1425	81.4	81.4	79.7	0.81	2.3	4.8	0.77	1.8	0.0095	24
1.5	2.0	WM90L	1425	82.8	82.8	81.5	0.81	3.2	5.0	1.04	2.0	0.014	28
2.2	3.0	WM100L	1450	84.3	84.3	82.4	0.81	4.5	5.5	1.49	1.8	0.023	34
3.7	5.0	WM112M	1440	86.3	86.3	85.1	0.77	7.9	5.3	2.59	2.1	0.050	47

NOTE :- All performance values are subject to tolerances as per is 15999 : part-1

Technical Data for totally enclosed squirrel cage three phase induction motors

IP 55 - IC 411 - Insulation class F
temperature rise class B
IE 2 efficiency class according to IS 12615 : 2018
6 - pole , 415 V , 50 Hz , IP 55 , Duty S1 , Ambt . 50 deg , Rise class B

1000 r/min = 6 poles													
Rated Output		Frame Size	Speed r/min	% efficiency			power factor cos ø	rated current amps	Starting current to rated current ratio	rated torque kg-m	Starting torque to rated torque ratio	rotor GD² kgm²	Weight kg
Kw	HP			full load 100%	3/4 load 75%	1/2 load 50%							
0.37	0.5	WM80	910	67.6	67.6	63.5	0.71	1.1	3.0	0.41	1.8	0.0055	17
0.55	0.75	WM80	910	73.1	73.1	72.5	0.72	1.5	3.3	0.59	2.0	0.0075	21
0.75	1.0	WM90S	930	75.9	75.9	70.7	0.73	1.9	3.9	0.79	1.9	0.0104	25
1.1	1.5	WM90L	930	78.1	78.1	74.5	0.74	2.8	4.0	1.13	2.1	0.0154	30
1.5	2.0	WM100L	960	79.8	79.8	76.1	0.71	3.7	4.7	1.49	1.9	0.0221	38
2.2	3.0	WM112M	930	81.8	81.8	79.7	0.72	5.3	4.3	2.21	2.5	0.0509	51

NOTE :- All performance values are subject to tolerances as per is 15999 : part-1

Technical Data for totally enclosed squirrel cage three phase induction motors

IP 55 - IC 411 - Insulation class F
temperature rise class B
IE 2 efficiency class according to IS 12615 : 2018
8 - pole , 415 V , 50 Hz , IP 55 , Duty S1 , Ambt . 50 deg , Rise class B

750 r/min = 8 poles													
Rated Output		Frame Size	Speed r/min	% Efficiency			power factor cos ø	rated current amps	Starting current to rated current ratio	rated torque kg-m	Starting torque to rated torque ratio	rotor GD² kgm²	Weight kg
Kw	HP			full load 100%	3/4 load 75%	1/2 load 50%							
0.18	0.25	WM80	675	45.9	45.9	40.1	0.64	0.80	2.6	0.25	1.8	0.0055	17
0.25	0.35	WM80	670	50.6	50.6	45.5	0.63	1.0	2.5	0.35	1.8	0.0075	18
0.37	0.5	WM90S	690	56.1	56.1	53.6	0.65	1.35	2.9	0.55	1.8	0.0095	22
0.55	0.75	WM90L	690	61.7	61.7	56.3	0.66	1.85	3.0	0.77	1.8	0.0125	27
0.75	1.0	WM100L	705	66.2	66.2	65.3	0.63	2.3	3.3	1.04	1.6	0.0221	32
1.1	1.5	WM100L	705	70.8	70.8	67.1	0.63	3.3	3.3	1.58	1.6	0.0275	38
1.5	2.0	WM112M	695	74.1	74.1	72.5	0.65	4.3	3.3	2.12	1.9	0.0401	51

NOTE :- All performance values are subject to tolerances as per is 15999 : part-1

General performance IE2 high efficiency cast iron motors in brief

Size		80	90	100	112	132
Frame	Material	Cast iron grade 200 , iso 185				
	Paint Color Shade	Mahidra grey				
Bearing	D-End	6204-Z/C3	6205-Z/C3	6206-Z/C3	6306-Z/C3	6308-Z/C3
	N-End	6204-Z/C3	6205-Z/C3	6206-Z/C3	6306-Z/C3	6308-Z/C3
Lubrication		Permanently lubrication one side shielded bearing				
Terminal Box	Frame Material	Aluminium				
	Cover Material	Aluminium				
	Cover Screws Material	SS304				
	Cable Entries	2XM25		2 x M32		
Connections	Cable Sizes	2Rx3Cx6mm2		2R x 3C x 10mm2		
	Terminal Stud Size	M4		M4		
Fan	Terminals	Upto 3hp - star / 6 leads > 3hp - delta / 6 leads				
	Material	Polypropylene , reinforce with 20% glass fiber				
	Material	Sheet of steel				
Fan Cover	Paint Color Shade	Mahidra grey				
Stator Winding	Material	Copper				
	Insulation	Insulation class F , Temperature rise B				
Rotor Winding	Material	Pressure die cast aluminum				
Balancing Method		Half key balancing as standard				
Key Ways		Close key way				
Enclosure		Ip 55 , higher protection on request				
Cooling Method		Ic 411				
Lifting Lugs					integrated with the stator	