

FEATURES

- Foot/Flange mounting with single shaft extension
- Class 'F' insulation, Class 'B' Temperature Rise
- Cast Iron body
- Cast Iron end Covers
- Optimum fan design for better cooling and minimum energy consumption
- Rigidly sealed Terminal Box at RHS when viewed from drive end
- Suitable for flexible direct coupling or belt drives with high load Gd2 equal to Motor GD2
- Suitable for starting with external resistance in the rotor circuit
- Bi-directional rotation

COMPLIES TO

- | | | |
|-------------------------------|---|------------|
| • Specifications | : | IS : 325 |
| • General Requirements | : | BS : 4999 |
| • Rating & Performance | : | IEC : 34-1 |
| • Dimensions, foot mounted is | : | 1231 |
| • Dimensions, flange mounted | : | IS : 2223 |

APPLICATIONS

- Mills
- Conveyors
- Machine Tools
- Mixer
- Fans
- Crushers
- Material Handling



SPECIFICATIONS

- | | | |
|---------------------|---|---------------------|
| • Input Voltage (V) | : | 415V+/-10%, 3 Ph AC |
| • Frequency (Hz) | : | 50+/-5% |
| • Insulation | : | F |
| • Duty | : | SI |
| • Protection | : | IP 55/54/44 |
| • Enclosure | : | IC 411 |
| • Ambient Temp | : | 0 - 45°C |
| • Rating | : | 3 - 800 kW |
| • Frame Size | : | 132 - 450 |

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Technical Data :

415V, 50Hz, Synchronous speed 1500 RPM (4 Poles) TEFC Slipping Motors.

Model YR3	Output KW	Electric Current A	Speed R/Min	Eff. %	Power Factor	Max. Torque/ Rared Torque	Voltage V	Electric Current A	Noise dB (A)	Vibration mm/s	Rotating Inertia Kg.M ₂	Weight Kg
132M1-4	4	8.6	1421	84.5	0.77	3.0	230	11.5	86	1.8	0.15	88
132M2-4	5.5	11.5	1434	86.0	0.77	3.0	272	13	86	1.8	0.17	96
160M-4	7.5	14.5	1444	87.5	0.83	3.0	250	19.5	90	2.8	0.23	108
160L-4	11	20.9	1426	89.5	0.83	3.0	276	25	90	2.8	0.27	115
180L-4	15	28	1463	89.5	0.85	3.0	264	36	94	2.8	0.24	205
200L 1-4	18.5	33	1462	90	0.86	3.0	264	44	94	2.8	0.36	277
200L2-4	22	39	1467	90	0.86	3.0	305	45	94	2.8	0.40	290
225M2-4	30	54	1473	90	0.86	3.0	378	49	98	2.8	0.77	350
250M1-4	37	65	1475	91.5	0.86	3.0	287	79	98	3.5	1.03	480
250M2-4	45	79	1477	91.5	0.87	3.0	341	81	100	3.5	1.17	500
280S-4	55	95	1457	91.5	0.88	3.0	501	67	100	3.5	2.27	620
280M-4	75	128	1480	92.5	0.88	3.0	429	107	103	3.5	2.65	720
315S-4	90	156	1483	92.5	0.87	4.0	548	100	103	3.5	4.65	1040
315M1-4	110	187	1485	93.0	0.88	4.5	526	127	103	3.5	5.22	1060
315M2-4	132	224	1485	93.5	0.88	4.5	602	133	106	3.5	5.68	1110
315L 1-4	160	269	1486	94.0	0.88	4.5	722	134	106	3.5	6.47	1131
355M1-4	160	268	1485	93.3	0.89	3.0	352	277	106	3.5	11.54	1650
355M2-4	185	309	1485	93.5	0.89	3.0	385	293	106	3.5	12.58	1723
355L 1-4	200	332	1486	94.0	0.89	3.3	423	287	106	3.5	13.04	1740
355L2-4	220	366	1488	94.0	0.89	3.3	483	277	106	3.5	14.20	1825
355L3-4	250	415	1488	94.0	0.89	3.5	529	286	106	3.5	15.13	1900
355L4-4	280	466	1489	94.0	0.89	3.5	605	280	106	3.5	16.98	2115
400M1-4	280	482	1488	94.0	0.86	3.5	545	311	108.	3.5	21.51	2721
400M2-4	315	542	1489	94.0	0.86	3.5	595	320	108	3.5	23.54	2823
400M3-4	355	602	1489	94.5	0.87	3.5	674	318	108	3.5	26.07	2960
400M4-4	400	677	1490	94.5	0.87	3.5	776	311	108	3.5	28.35	3082
400L 1-4	450	742	1490	94.8	0.89	3.0	874	320	108	3.5	33.01	3295
400L2-4	500	824	1490	94.8	0.89	3.0	977	308	108	3.5	35.60	3350
450 1-4	500	821	1492	95.2	0.89	3.0	722	412	111	3.5	37.31	4490
450 2-4	560	918	1493	95.3	0.89	3.0	867	384	111	3.5	41.27	4658
450 3-4	630	1021	1493	95.4	0.90	3.0	878	427	111	3.5	46.34	4884
450 4-4	710	1149	1494	95.5	0.90	3.0	1085	389	111	3.5	51.50	5085
450 5-4	800	1294	1494	95.6	0.90	3.0	1211	424	111	3.5	57.31	5437

Data subject to change without notice.

Technical Data :

415V, 50Hz, Synchronous speed 1000 RPM (6 Poles) TEFC Slipping Motors.

Model YR3	Output KW	Electric Current A	Speed R/Min	Eff. %	Power Factor	Max. Torque/ Rared Torque	Voltage V	Electric Current A	Noise dB (A)	Vibration mm/s	Rotating Inertia Kg.M ₂	Weight Kg
132M1-6	3	7.33	949	80.5	0.69	2.8	206	9.5	82	1.8	0.20	89
132M2-6	4	9.80	949	82.0	0.69	2.8	230	11	82	1.8	0.21	97
160M-6	5.5	12.1	940	84.5	0.74	2.8	244	14.5	82	2.8	0.28	145
160L-6	7.5	16.3	947	86.0	0.74	2.8	266	18	85	2.8	0.32	153
180L-6	11	21	970	87.5	0.81	2.8	316	23	85	2.8	0.35	203
200L 1-6	15	29	972	88.5	0.81	2.8	193	49	88	2.8	0.53	280
225M1-6	18.5	35	975	88.5	0.83	2.8	195	60	88	2.8	0.77	330
225M2-6	22	41	977	89.5	0.83	2.8	230	60	88	2.8	0.88	350
250M1-6	30	55	982	90	0.84	2.8	282	66	88	2.8	1.51	480
250M2-6	37	68	984	90.5	0.84	2.8	327	70	91	3.5	1.66	510
280\$-6	45	81	969	91.5	0.85	2.8	364	76	94	3.5	3.06	620
280M-6	55	98	986	92.0	0.85	2.8	428	79	94	3.5	3.23	660
315\$-6	75	132	989	93.0	0.85	3.0	421	108	98	3.5	7.47	945
315M1-6	90	157	990	93.5	0.85	3.0	518	105	98	3.5	8.70	1050
315M2-6	110	192	991	93.5	0.85	3.0	612	108	98	3.5	9.86	1240
315L1-6	132	233	993	94.0	0.84	3.5	604	131	98	3.5	10.80	1360
355M1-6	132	230	989	92.8	0.86	2.5	302	269	102	3.5	14.54	1630
355M2-6	160	278	989	93.0	0.86	2.5	349	280	102	3.5	15.73	1789
355L 1-6	185	320	990	93.3	0.86	2.5	402	280	102	3.5	17.52	1825
355L2-6	200	346	990	93.5	0.86	2.8	443	275	102	3.5	19.31	1920
355L3-6	220	381	991	93.5	0.86	2.8	492	272	102	3.5	20.50	1950
355L4-6	250	441	992	93.8	0.84	3.0	553	273	105	3.5	22.89	1970
400M1-6	250	441	991	93.8	0.84	3.0	545	274	105	3.5	30.76	2620
400M2-6	280	478	991	94.8	0.86	3.0	578	290	105	3.5	32.75	2690
400M3-6	315	537	992	95.0	0.86	3.0	655	287	105	3.5	36.07	2889
400M4-6	355	604	992	95.0	0.86	3.0	736	288	105	3.5	39.38	3012
400L 1-6	400	679	993	95.2	0.86	2.8	870	274	105	3.5	46.18	3261
400L2-6	450	765	994	95.2	0.86	2.8	958	280	105	3.5	51.49	3429
400L3-6	500	840	993	95.2	0.87	2.8	1064	279	105	3.5	53.26	3461
450 1-6	500	839	994	95.3	0.87	2.8	972	306	105	3.5	54.81	4323
450 2-6	560	939	994	95.4	0.87	2.8	1080	306	105	3.5	58.50	4438
450 3-6	630	1055	994	95.5	0.87	2.8	1216	306	105	3.5	66.03	4766
450 4-6	710	1188	994	95.6	0.87	2.8	1390	306	105	3.5	72.88	4970

Data subject to change without notice.

Technical Data :

415V, 50Hz, Synchronous speed 750 RPM (8 Poles) TEFC Slipping Motors.

Model YR3	Output KW	Electric Current A	Speed R/Min	Eff. %	Power Factor	Max. Torque/ Rared Torque	Voltage V	Electric Current A	Noise dB (A)	Vibration mm/s	Rotating Inertia Kg.M ₂	Weight Kg
160M-8	4	9.6	703	82.5	0.69	2.4	216	12	78	2.8	0.27	140
160L-8	5.5	12.9	714	83.0	0.71	2.4	230	15.5	78	2.8	0.31	155
180L-8	7.5	16.2	721	85	0.73	2.4	261	19	82	2.8	0.31	195
200L 1-8	11	24	726	86	0.73	2.4	159	44	82	2.8	0.52	279
225M1-8	15	32	728	88	0.75	2.4	174	55	85	2.8	0.87	330
225M2-8	18.5	38	730	89	0.75	2.4	212	55	85	2.8	1.02	390
250M1-8	22	43	733	89	0.78	2.4	203	68	86	3.5	1.51	420
250M2-8	30	58	735	89.5	0.77	2.4	256	73	90	3.5	1.73	510
280S-8	37	70	715	90.5	0.79	2.4	290	79	87	3.5	2.97	640
280M-8	45	85	736	91.5	0.80	2.4	372	75	90	3.5	3.40	720
315S-8	55	109	740	92.2	0.76	2.8	348	96	93	3.5	7.47	920
315M1-8	75	146	739	92.8	0.77	2.8	446	102	96	3.5	9.06	1010
315M2-8	90	175	740	93.2	0.77	2.8	549	99	96	3.5	10.39	1220
315L 1-8	110	207	743	92.5	0.80	3.2	635	104	96	3.5	10.10	1310
315L2-8	132	248	743	93.5	0.76	3.0	584	135	96	3.5	15.01	1390
355M1-8	110	213	742	92.0	0.78	2.4	281	239	99	3.5	15.01	1485
355M2-8	132	255	742	92.4	0.78	2.5	330	244	99	3.5	16.72	1565
355L 1-8	160	309	743	92.5	0.78	2.5	400	244	99	3.5	19.53	1640
355L2-8	185	356	743	92.6	0.78	2.6	448	252	99	3.5	22.34	1703
355L3-8	200	384	743	93.0	0.78	2.6	475	256	99	3.5	23.59	1731
355L4-8	220	417	744	93.0	0.79	2.6	544	246	99	3.5	26.40	1792
400M1-8	220	422	742	93.0	0.78	2.8	422	313	99	3.5	33.92	2785
400M2-8	250	485	743	93.0	0.77	2.8	475	315	102	3.5	37.91	2929
400M3-8	280	537	744	94.2	0.77	2.8	542	308	102	3.5	41.92	3061
400L 1-8	315	603	744	94.5	0.77	2.8	633	297	102	3.5	45.24	3194
400L2-8	355	670	744	94.5	0.78	2.8	691	306	102	3.5	49.23	3343
400L3-8	400	755	744	94.5	0.78	2.8	760	314	102	3.5	53.88	3513
450 1-8	400	744	745	94.6	0.79	2.8	704	337	102	3.5	54.87	4595
450 2-8	450	837	745	94.7	0.79	2.8	775	345	102	3.5	58.66	4833
450 3-8	500	928	745	94.8	0.79	2.8	861	344	102	3.5	66.08	5050
450 4-8	560	1038	745	95.0	0.79	2.8	969	342	102	3.5	74.44	5270

Data subject to change without notice.



Table 2 : External & Assembling Dimensions

TYPE	ASSEMBLING DIMENSIONS										TERMINAL BOX					DIMENSIONS						
	E		F		G	H	K	D1		D2												
	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS	UNIT (mm)	MAX. DIMENSIONS		
160M	254	210	108		37		160		15	+0.430 0		M30×2.0 (ø13~18)		25	65	314	330	20	410	216	776	
160L		254			42.5		180												358	820		
180L	279	279	121		0		200	0	19	-0.50				29	70	349	380	22	455	396	900	
200L	318	305	133		-0.043		220							31	70	388	397	25	495	420	1020	
225M	356	311	149		53		225							36	75	431	460	28	520	430	1045	
250M	406	349	168		58	-0.20	250		24					40	80	490	495	30	625	490	1170	
280S	457	368	190		67.5		280							38	85	550	550	35	670	519	1264	
280M		419								+0.520 0				1					570	1315		
315S		406																	570	1490		
315M	508	457	216		71		315	0 -1.0	28			M50×1.5 (ø12~38)		48	120	628	620	45	837	680	1600	
315L		508																	680	1660		
355M	610	560	254				355							52	116	730	710	52	920	913	1820	
355L		630			86							M64×2.0 (ø37~44)										
400M	686	630			100		400		35	+0.620 0		M72×2.0 (ø45~52)		55	120	806	856	45	1078	1162	2300	
400L		710	280		109																	
450	800	1000			119		450		42			M56×2.0 (ø32~38)	9	66	190	990	1016	52	1409	1530	2900	