

FORTA

**PME RANGE OF FLAMEPROOF
THREE PHASE INDUSCTION MOTORS**



**PT. KARUNIA IMMANUEL SEJAHTERA
MGK KEMAYORAN LT.GF BLOCK C11 NO.5
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The advantages of this range of motors are higher efficiency, saving energy, longer service life, larger allowance for temperature rise limit, satisfactory performance, lower noise and vibration, advanced flameproof construction, higher reliability and easier maintenance.

Group I(dI): Electrical apparatus for underground non-excavation face for mines where explosive mixture containing methane or coal dust exist..

Group II: Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to firedamp.

d II AT4: Electrical apparatus for places where explosive mixture with group of II A and temperature class of T1, T2, T3 and T4 exist.

d II BT4: Electrical apparatus for places where explosive mixture with group of II A, II B and temperature class of T1, T2, T3 and T4 exist.

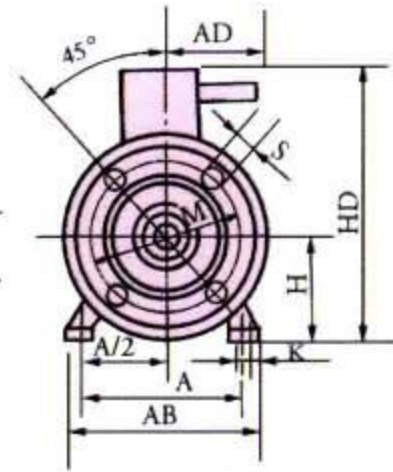
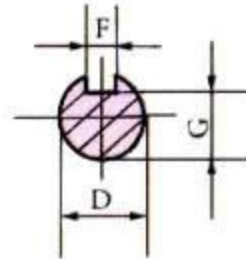
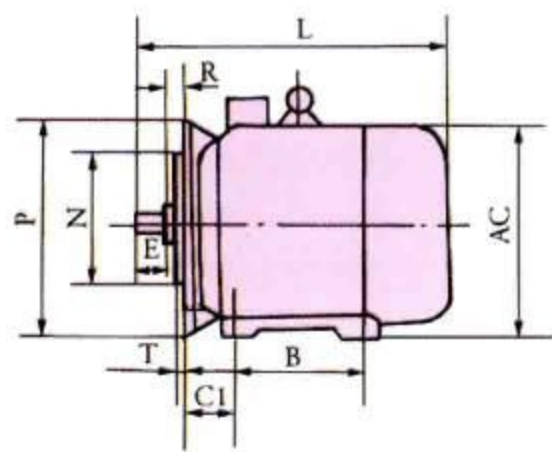
Technical Data

Type	Output (HP)	Current (380V) (A)	Rated Speed r/min	Eff. (%)	Power Factor (cos ϕ)	Locked rotor torque	Locked rotor current	Break down torque	Weight (kg)
						Rated torque	Rated current	Rated torque	
Synchronous Speed 3000r/min (2poles)									
711-2	0.5	0.99	2800	70	0.81	2.2	5.5	2.2	
712-2	0.75	1.38	2800	73	0.83	2.2	6.0	2.2	
801-2	1	1.8	2825	75	0.84	2.2	7.0	2.2	23
802-2	1.5	2.5	2825	77	0.86	2.2	7.0	2.2	24
90S-2	2	3.4	2840	78	0.85	2.2	7.0	2.2	31
90L-2	3	4.7	2840	82	0.86	2.2	7.0	2.2	37
100L-2	4	6.4	2880	82	0.87	2.2	7.0	2.2	45
112M-2	5.5	8.2	2890	85.5	0.87	2.2	7.0	2.2	53
132S1-2	7.5	11.1	2900	85.5	0.88	2.0	7.0	2.2	77
132S2-2	10	15.0	2900	86.2	0.88	2.0	7.0	2.2	84
160M1-2	15	21.8	2930	87.2	0.88	2.0	7.0	2.2	135
160M2-2	20	29.4	2930	88.2	0.88	2.0	7.0	2.2	151
160L-2	25	35.5	2930	89	0.89	2.0	7.0	2.2	170
180M-2	30	42.2	2940	89	0.89	2.0	7.0	2.2	215
200L1-2	40	56.9	2950	90	0.89	2.0	7.0	2.2	264
200L2-2	50	69.8	2950	90.5	0.89	2.0	7.0	2.2	290
225M-2	60	83.9	2970	91.5	0.89	2.0	7.0	2.2	420
250M-2	75	102.7	2970	91.5	0.89	2.0	7.0	2.2	505
280S-2	100	140.1	2970	91.5	0.89	2.0	7.0	2.2	650
280M-2	125	167	2970	92	0.89	2.0	7.0	2.2	700
315S	150	203	2970	92.5	0.89	1.8	6.8	2.2	950
315M	180	242	2970	93	0.89	1.8	6.8	2.2	1000
315L1	220	292	2970	93.5	0.89	1.8	6.8	2.2	1150
315L2	270	365	2970	93.5	0.89	1.8	6.8	2.2	1300
Synchronous Speed 1500r/min (4poles)									
801-4	0.75	1.5	1390	73	0.76	2.2	6.5	2.2	23
802-4	1	2.0	1390	74.5	0.76	2.2	6.5	2.2	24
90S-4	1.5	2.7	1400	78	0.78	2.2	6.5	2.2	33
90L-4	2	3.7	1400	79	0.79	2.2	6.5	2.2	37
100L1-4	3	5.0	1420	81	0.82	2.2	7.0	2.2	45
100L2-4	4	6.8	1420	82.5	0.81	2.2	7.0	2.2	47
112M-4	5.5	8.8	1440	84.5	0.82	2.2	7.0	2.2	58
132S-4	7.5	11.6	1440	85.5	0.84	2.2	7.0	2.2	80
132M-4	10	15.4	1440	87	0.85	2.2	7.0	2.2	95
160M-4	15	22.6	1460	88	0.84	2.2	7.0	2.2	148
160L-4	20	30.3	1460	88.5	0.85	2.2	7.0	2.2	166
180M-4	25	35.9	1470	91	0.86	2.0	7.0	2.2	220

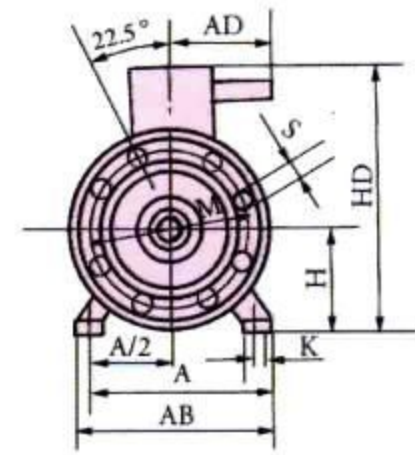


Type	Output (HP)	Current (380V) (A)	Rated Speed r/min	Eff. (%)	Power Factor (cos ϕ)	Locked rotor torque	Locked rotor current	Break down torque	Weight (kg)
						Rated torque	Rated current	Rated torque	
180L-4	30	42.5	1470	91.5	0.86	2.0	7.0	2.2	270
200L-4	40	56.8	1470	92.2	0.87	2.0	7.0	2.2	300
225S-4	50	69.8	1480	91.8	0.87	1.9	7.0	2.2	390
225M-4	60	84.2	1480	92.3	0.88	1.9	7.0	2.2	440
250M-4	75	102.5	1480	92.6	0.88	2.0	7.0	2.2	510
280S-4	100	139.7	1480	92.7	0.88	1.9	7.0	2.2	650
280M-4	125	164.3	1480	93.5	0.89	1.9	7.0	2.2	800
315S	150	201	1480	93.5	0.89	1.8	6.8	2.2	900
315M	180	240	1480	94	0.89	1.8	6.8	2.2	980
315L1	220	289	1480	94.5	0.89	1.8	6.8	2.2	1150
315L2	270	361	1480	94.5	0.89	1.8	6.8	2.2	1350
Synchronous Speed 1000r/min (6poles)									
90S-6	1	2.3	910	72.5	0.70	2.0	6.0	2.0	33
90L-6	1.5	3.2	910	73.5	0.72	2.0	6.0	2.0	38
100L-6	2	4.0	940	77.5	0.74	2.0	6.0	2.0	44
112M-6	3	5.6	940	80.5	0.74	2.0	6.0	2.0	53
132S-6	4	7.2	960	83	0.76	2.0	6.5	2.0	76
132M1-6	5.5	9.4	960	84	0.77	2.0	6.5	2.0	86
132M2-6	7.5	12.6	960	85.3	0.78	2.0	6.5	2.0	101
160M-6	10	17.0	970	86	0.78	2.0	6.5	2.0	141
160L-6	15	24.6	970	87	0.78	2.0	6.5	2.0	165
180L-6	20	31.6	970	89.5	0.81	1.8	6.5	2.0	260
200L1-6	25	37.7	970	89.8	0.83	1.8	6.5	2.0	265
200L2-6	30	44.6	970	90.2	0.83	1.8	6.5	2.0	287
225M-6	40	59.5	980	90.2	0.85	1.7	6.5	2.0	405
250M-6	50	72	980	90.8	0.86	1.8	6.5	2.0	505
280S-6	60	85.4	980	92	0.87	1.8	6.5	2.0	620
280M-6	75	104.9	980	92	0.87	1.8	6.5	2.0	690
315S	100	142	980	92.8	0.87	1.6	6.5	2.0	840
315M	125	169	980	93.2	0.87	1.6	6.5	2.0	900
315L1	150	206	980	93.5	0.87	1.6	6.5	2.0	980
315L2	180	247	980	93.8	0.87	1.6	6.5	2.0	1150
Synchronous Speed 750r/min (8poles)									
132S-8	3	5.8	710	81	0.71	2.0	5.5	2.0	77
132M-8	4	7.7	710	82	0.72	2.0	5.5	2.0	87
160M1-8	5.5	9.9	720	84	0.73	2.0	6.0	2.0	123
160M2-8	7.5	13.3	720	85	0.74	2.0	6.0	2.0	141
160L-8	10	17.7	720	86	0.75	2.0	5.5	2.0	165
180L-8	15	25.1	730	86.5	0.77	1.7	6.0	2.0	255
200L-8	20	34.1	730	88	0.76	1.8	6.0	2.0	265
225S-8	25	41.3	730	89.5	0.76	1.7	6.0	2.0	353
225M-8	30	47.6	730	90	0.78	1.8	6.0	2.0	402
250M-8	40	63	730	90.5	0.80	1.8	6.0	2.0	470
280S-8	50	78.7	740	91	0.79	1.8	6.0	2.0	610
280M-8	60	93.2	740	91.7	0.80	1.8	6.0	2.0	690
315S	75	109	740	92.0	0.8	1.6	6.5	2.0	840
315M	100	148	740	92.5	0.81	1.6	6.5	2.0	900
315L1	125	177	740	93.0	0.82	1.6	6.5	2.0	980
315L2	150	216	740	93.3	0.82	1.6	6.3	2.0	1150
Synchronous Speed 600r/min (10poles)									
315S	60	98	580	91.5	0.74	1.4	6.0	2.0	840
315M	75	119	580	92.0	0.74	1.4	6.0	2.0	900
315L2	100	159	580	92.5	0.75	1.4	6.0	2.0	1100

Mounting Arrangement B35 Frame with feet, end-shield with flange



H71-H200



H225-H315

Frame Size	No. of Poles	Mounting dimensions in mm																Overall dimensions in mm								
		A	A/2	B	C1	D	E	F	G	H	K	M	N	P	R	S	T	NO. of flange holes	Pipe thread for Cable entry	AB	AC	AD	HD	L		
71	2.4.6	112		90	45	14	30	5	11	71	7	130	110	160		10	3.0	4	M30x2	140	155	170	240	300		
80	2.4	125	62.5	100	50	19	40	6	15.5	80											165	165	225	340	330	
90S	2.4.6	140	70		56	24	50		20.0	90	10	165	130	200		12	3.5					180		180	355	360
90L				125																			200	205	380	430
100L		160	80	63	28	60	8	24.0	100		215	180	250								225	230	400	460		
112M		190	95	140	70				112							15	4									
132S	2.4.6.8.	216	108	89	38	80	10	33.0	132	12	265	230	300							280	270	240	470	510		
132M				178																			330	325	530	550
160M		254	127	210	108	42		12	37.0	160	15	300	250	350												
160L				254																						
180M		279	139.5	241	121	48	110	14	42.5	180																
180L		279		279																						
200L		318	159	305	133	55		16	49.0	200		350	300	400												
225S		4.8	356	178	286		60	140	18	53.0	225	19	400	350	450		19	5		M48x2		290		625	805	
225M	2	311			149	55	110	16	49.0																	
250M	2	406	203	349	168		18	53.0	250																	
250M	4.6.8																								60	
280S	2	457	228.5	368		140	18	58.0	280		24	500	450	550	0											
280S	4.6.8																								75	
280M	2			190		65			20	67.5																
280M	4.6.8			419		65			18	58.0																
315S	2	508		406	216	65	140	18	58	315	28	600	550	660		24	6		M64x2							
315S	4.6.8																								80	170
315M	2	508		457	216	65	140	18	58	315	28	600	550	660		24	6									
315M	4.6.8																								80	170
315L	2	508		508	216	65	140	18	58	315	28	600	550	660		24	6									
315L	4.6.8																								80	170