

Three Phase Inverter Rated AC Motors 0.12 to 355kW

A range of aluminium (63-132 frames) and cast iron (160-355 frames) three phase ac induction motors suitable for use with all Eurotherm Drives inverters as well as fixed speed operation. The motors meet the CEMEP EFF 2 efficiency standards.

Dimension data can be found on page 30/31



STANDARD

EFF2 EFFICIENCY

B3 FOOT OR B5 FLANGE MOUNTING

IP55 PROTECTION

INVERTER RATED

DUAL VOLTAGE 230/400V UP TO 2.2KW

MULTI-MOUNT TERMINAL BOX (Aluminium Frames)

THERMISTOR (Standard 160-355 frame, Optional 63-132 frame)

OPTIONS

EFF1 EFFICIENCY

B3/B5 FOOT/FLANGE MOUNTING

B14 'C' FACE AND NON- STANDARD FACE/FLANGE

FORCE VENTILATION COOLING FAN

MECHANICAL BRAKE

HIGHER IP PROTECTION

ANTI-CONDENSATION HEATERS

SPECIAL PAINT FINISH

SPECIAL SHAFTS

Technical Specification

2 Pole Standard Motors

Frame Size	Rating (kW)	Speed @ 50Hz (rpm)	kW Rating 5-1 Speed Range	kW Rating 10-1 Speed range	Full Load Current 230V (A)	Full Load Current 400V (A)				
D63	0.12	2790	0.08	0.07	0.76	0.44				
D63	0.18	2800	0.13	0.11	1.02	0.59				
D63	0.25	2800	0.18	0.15	1.32	0.76				
D71	0.37	2800	0.26	0.22	1.59	0.92				
D71	0.55	2780	0.39	0.33	2.34	1.35				
D80	0.75	2830	0.53	0.45	2.88	1.66				
D80	1.1	2820	0.77	0.66	4.09	2.36				
D90S	1.5	2860	1.1	0.90	5.51	3.18				
D90L	2.2	2860	1.5	1.3	7.95	4.59				
D100L	3	2870	2.1	1.8		5.94				
D112M	4	2880	2.8	2.4		7.70				
D132S	5.5	2900	3.9	3.3		10.5				
D132S	7.5	2900	5.3	4.5		14.2				
D160M	11	2935	7.7	6.6		19.9				
D160M	15	2935	11	9.0		26.8				
D160L	18.5	2935	13	11		32.2				
D180M	22	2945	15	13		38.3				
D200L	30	2950	21	18		52.2				
D200L	37	2950	26	22		63.6				
D225M	45	2960	32	27		77.7				
D250M	55	2965	39	33		95.7				
D280S	75	2971	53	45		128				
D280M	90	2965	63	54		152				
D315S	110	2975	77	66		186				
D315M	132	2975	92	79		222				
D315L	160	2975	112	96		265				
D315L	200	2975	140	120		331				
D355M	250	2970	175	150		411				
D355L	280	2970	196	168		460				
D355L	315	2970	221	189		516				

4 Pole Standard Motors

Frame Size	Rating (kW)	Speed @ 50Hz (rpm)	kW Rating 5-1 Speed Range	kW Rating 10-1 Speed Range	Full Load Current 230V (A)	Full Load Current 400V (A)				
D63	0.12	1360	0.08	0.07	0.78	0.45				
D63	0.18	1370	0.13	0.11	1.11	0.64				
D71	0.25	1400	0.18	0.15	1.42	0.82				
D71	0.37	1400	0.26	0.22	1.96	1.13				
D80	0.55	1420	0.39	0.33	2.70	1.56				
D80	0.75	1415	0.53	0.45	3.41	1.97				
D90S	1.1	1410	0.77	0.66	4.68	2.70				
D90L	1.5	1420	1.1	0.90	6.06	3.50				
D100L	2.2	1425	1.5	1.3	8.47	4.89				
D100L	3	1425	2.1	1.8		6.51				
D112M	4	1435	2.8	2.4		8.45				
D132S	5.5	1440	3.9	3.3		11.5				
D132M	7.5	1445	5.3	4.5		14.9				
D160M	11	1460	7.7	6.6		21.1				
D160L	15	1460	11	9.0		27.3				
D180M	18.5	1467	13	11		33.2				
D180L	22	1465	15	13		39.5				
D200L	30	1465	21	18		53.1				
D225S	37	1475	26	22		66.3				
D225M	45	1475	32	27		79.9				
D250SC	55	1475	39	33		96.0				
D280S	75	1485	53	45		130				
D280M	90	1484	63	54		154				
D315S	110	1485	77	66		191				
D315M	132	1485	92	79		228				
D315L	160	1485	112	96		273				
D315L	200	1485	140	120		341				
D355M	250	1490	175	150		415				
D355L	280	1490	196	168		465				
D355L	315	1490	221	189		522				
D355L	355	1490	249	213						

6 Pole Standard Motors

Frame Size	Rating (kW)	Speed @ 50Hz (rpm)	kW Rating 5-1 Speed Range	kW Rating 10-1 Speed Range	Full Load Current 230V (A)	Full Load Current 400V (A)				
D63	0.12	900	0.08	0.07	1.04	0.6				
D71	0.18	900	0.13	0.11	1.18	0.68				
D71	0.25	900	0.18	0.15	1.56	0.9				
D80	0.37	920	0.26	0.22	2.23	1.29				
D80	0.55	920	0.39	0.33	3.05	1.76				
D90S	0.75	920	0.53	0.45	3.74	2.16				
D90L	1.1	925	0.77	0.66	5.28	3.05				
D100L	1.5	925	1.1	0.90	6.72	3.88				
D112M	2.2	950	1.5	1.3	9.35	5.40				
D132S	3	955	2.1	1.8		6.74				
D132M	4	960	2.8	2.4		9.19				
D132M	5.5	960	3.9	3.3		12.0				
D160M	7.5	970	5.3	4.5		15.9				
D160L	11	970	7.7	6.6		22.2				
D180L	15	970	11	9.0		29.3				
D200L	18.5	975	13	11		35.4				
D200L	22	975	15	13		41.7				
D225M	30	980	21	18		55.4				
D250M	37	980	26	22		67.2				
D280S	45	980	32	27		81.7				
D280M	55	980	39	33		99.5				
D315S	75	935	53	45		135				
D315M	90	935	63	54		161				
D315L	110	935	77	66		196				
D315L	132	935	92	79		232				
D355M	160	990	112	96		277				
D355M	200	990	140	120		345				
D355L	250	990	175	150		427				

Three Phase Inverter Rated AC Motors

0.12 to 355kW

A range of aluminium (63-132 frames) and cast iron (160-355 frames) three phase ac induction motors fitted with encoder and force ventilation fan unit. These motors are specifically designed for use with Eurotherm Drives 690+ series closed loop vector drives. They meet the CEMEP EFF 2 efficiency standards.

Dimension data can be found on page 30/31



STANDARD

INTEGRAL ENCODER WITH PUSH-PULL COMPLEMENTARY OUTPUTS

INTEGRAL FORCE VENTILATION FAN COOLING

EFF2 EFFICIENCY

B3 FOOT OR B5 FLANGE MOUNTING

IP55 PROTECTION

INVERTER RATED

DUAL VOLTAGE 230/400V UP TO 2.2KW

MULTI-MOUNT TERMINAL BOX (ALUMINIUM FRAMES)

THERMISTOR (STANDARD 160-355 FRAME, OPTIONAL 63-132 FRAME)

Technical Specification

2 Pole Vector Motors (3000rpm @ 50Hz)

Frame Size	Rating (kW)	Full Load Current 230V (A)	Full Load Current 400V (A)			
D63	0.12	0.76	0.44			
D63	0.18	1.02	0.59			
D63	0.25	1.32	0.76			
D71	0.37	1.59	0.92			
D71	0.55	2.34	1.35			
D80	0.75	2.88	1.66			
D80	1.1	4.09	2.36			
D90S	1.5	5.51	3.18			
D90L	2.2	7.95	4.59			
D100L	3		5.94			
D112M	4		7.70			
D132S	5.5		10.5			
D132S	7.5		14.2			
D160M	11		19.9			
D160M	15		26.8			
D160L	18.5		32.2			
D180M	22		38.3			
D200L	30		52.2			
D200L	37		63.6			
D225M	45		77.7			
D250M	55		95.7			
D280S	75		128			
D280M	90		152			
D315S	110		186			
D315M	132		222			
D315L	160		265			
D315L	200		331			
D355M	250		411			
D355L	280		460			
D355L	315		516			

OPTIONS

EFF1 EFFICIENCY

B3/B5 FOOT/FLANGE MOUNTING

B14 'C' FACE AND NON-STANDARD FACE/FLANG

MECHANICAL BRAKE

HIGHER IP PROTECTION

ANTI-CONDENSATION HEATERS

THERMISTORS

SPECIAL PAINT FINISH

SPECIAL SHAFTS

Ordering Information

Please specify motor type, power, speed range, output speed, supply voltage, mounting details and any other options at time of order.

4 Pole Vector Motors (1500 rpm @ 50 Hz)

Frame Size	Rating (kW)	Full Load Current 230V (A)	Full Load Current 400V (A)			
D63	0.12	0.78	0.45			
D63	0.18	1.11	0.64			
D71	0.25	1.42	0.82			
D71	0.37	1.96	1.13			
D80	0.55	2.70	1.56			
D80	0.75	3.41	1.97			
D90S	1.1	4.68	2.70			
D90L	1.5	6.06	3.50			
D100L	2.2	8.47	4.89			
D100L	3		6.51			
D112M	4		8.45			
D132S	5.5		11.5			
D132M	7.5		14.9			
D160M	11		21.1			
D160L	15		27.3			
D180M	18.5		33.2			
D180L	22		39.5			
D200L	30		53.1			
D225S	37		66.3			
D225M	45		79.9			
D250SC	55		96.0			
D280S	75		130			
D280M	90		154			
D315S	110		191			
D315M	132		228			
D315L	160		273			
D315L	200		341			
D355M	250		415			
D355L	280		465			
D355L	315		522			
D355L	355					

6 Pole Vector Motors (1000 rpm @ 50 Hz)

Frame Size	Rating (kW)	Full Load Current 230V (A)	Full Load Current 400V (A)			
D63	0.12	1.04	0.6			
D71	0.18	1.18	0.68			
D71	0.25	1.56	0.9			
D80	0.37	2.23	1.29			
D80	0.55	3.05	1.76			
D90S	0.75	3.74	2.16			
D90L	1.1	5.28	3.05			
D100L	1.5	6.72	3.88			
D112M	2.2	9.35	5.40			
D132S	3		6.74			
D132M	4		9.19			
D132M	5.5		12.0			
D160M	7.5		15.9			
D160L	11		22.2			
D180L	15		29.3			
D200L	18.5		35.4			
D200L	22		41.7			
D225M	30		55.4			
D250M	37		67.2			
D280S	45		81.7			
D280M	55		99.5			
D315S	75		135			
D315M	90		161			
D315L	110		196			
D315L	132		232			
D355M	160		277			
D355M	200		345			
D355L	250		427			

Dimension Details



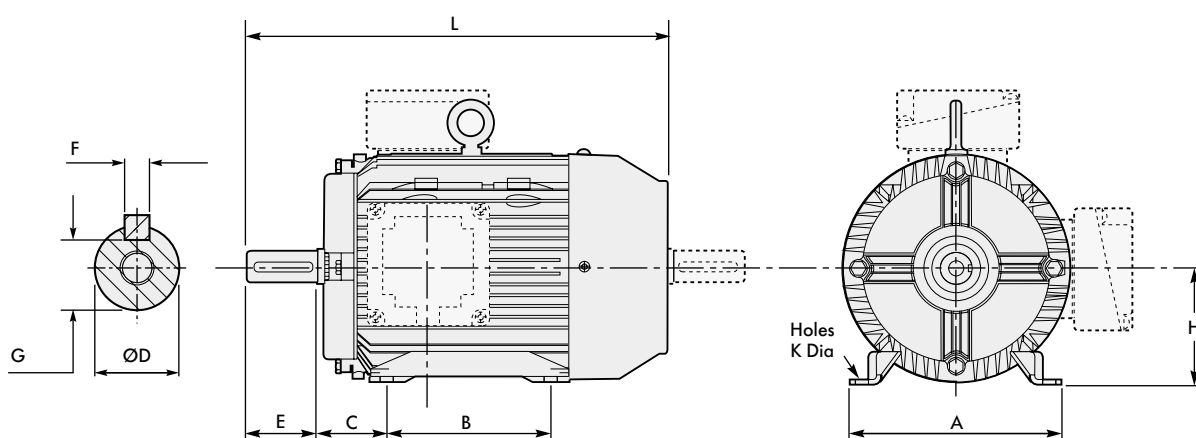
Dimensions																			
Frame Size	A Centres	B Centres	C	H	K	M PCD Dia	N	P	S Dia	T	D Dia	E	F	G	L Nat Vent	L Nat Vent/ Brake	L Force Vent	L Foce Vent/ Brake	Weight Nat Vent (kg)
63	100	80	40	63	7	115	95	140	10	3.0	11	23	4	8.5	241	291	315	399	4.5
71	112	90	45	71	7	130	110	160	10	3.5	14	30	5	11.0	250.5	289	337.5	400	6.5
80A	125	100	50	80	10	165	130	200	12	3.5	19	40	6	15.5	278.5	327	365	418	9.5
80B	125	100	50	80	10	165	130	200	12	3.5	19	40	6	15.5	287.5	336	365	427	11
90S	140	100	56	90	10	165	130	200	12	3.5	24	50	8	20.0	310	370.5	398	498	13.5
90L	140	125	56	90	10	165	130	200	12	3.5	24	50	8	20.0	325	385.5	423	513	14.5
100L	160	140	63	100	12	215	180	250	15	4.0	28	60	8	24.0	370	434	472	562	25
112M	190	140	70	112	12	215	180	250	15	4.0	28	60	8	24.0	385	474	491	565	38
132SA	216	140	89	132	12	265	230	300	15	4.0	38	70	10	33.0	471.5	569	542	677	57
132SB	216	140	89	132	12	265	230	300	15	4.0	38	70	10	33.0	491.5	589	542	697	68
132MA	216	178	89	132	12	265	230	300	15	4.0	38	70	10	33.0	491.5	589	580.5	697	68
132MB	216	178	89	132	12	265	230	300	15	4.0	38	70	10	33.0	491.5	604	580.5	697	68
160M	254	210	108	160	15	300	250	350	19	5.0	42	110	12	37.0	615	740	740	859	117
160L	254	254	108	160	15	300	250	350	19	5.0	42	110	12	37.0	670	795	795	914	134
180M	279	241	121	180	15	300	250	350	19	5.0	48	110	14	42.5	700	820	820	933	169
180L	279	279	121	180	15	300	250	350	19	5.0	48	110	14	42.5	740	860	860	973	181
200L	318	305	133	200	19	350	300	400	19	5.0	55	110	16	49.0	770	970	970	1083	239
225S	356	286	149	225	19	400	350	450	19	5.0	60	140	18	53.0	815	980	980	1074	287
225M 2P	356	311	149	225	19	400	350	450	19	5.0	55	110	16	49.0	820	980	980	1084	385
225M 4/6/8P	356	311	149	225	19	400	350	450	19	5.0	60	140	18	53.0	845	980	980	1109	385
250M 2P	406	349	168	250	24	500	450	550	19	5.0	60	140	18	53.0	910	1089	1089	1238	385
250M 4/6/8P	406	349	168	250	24	500	450	550	19	5.0	65	140	18	58.0	910	1089	1089	1238	385
280S 2P	457	368	190	280	24	500	450	550	19	5.0	65	140	18	58.0	985	1164	1164	1314	510
280S 4/6/8P	457	368	190	280	24	500	450	550	19	5.0	75	140	20	67.5	985	1164	1164	1314	510
280M 2P	457	419	190	280	24	500	450	550	19	5.0	65	140	18	58.0	1035	1235	1235	1415	600
280M 4/6/8P	457	419	190	280	24	500	450	550	19	5.0	75	140	20	67.5	1035	1235	1235	1415	600
315S 2P	508	406	216	315	28	600	550	660	24	6.0	65	140	18	58.0	1160	1360	1360	1546	930
315S 4/6/8P	508	406	216	315	28	600	550	660	24	6.0	80	170	22	71.0	1270	1470	1470		930
315M 2P	508	457	216	315	28	600	550	660	24	6.0	65	140	18	58.0	1190	1455	1455		1010
315M 4/6/8P	508	457	216	315	28	600	550	660	24	6.0	80	170	22	71.0	1300	1565	1565		1010
315L 2P	508	508	216	315	28	600	550	660	24	6.0	65	140	18	58.0	1190	1455	1455		1175
315L 4/6/8P	508	508	216	315	28	600	550	660	24	6.0	80	170	22	71.0	1300	1565	1565		1175
355M 2P	610	560	254	355	28	740	680	800	24	6.0	75	140	20	67.5	1500	1746	1746		1730
355M 4/6/8P	610	560	254	355	28	740	680	800	24	6.0	95	170	25	86.0	1530	1776	1776		1730
355L 2P	610	630	254	355	28	740	680	800	24	6.0	75	140	20	67.5	1500	1746	1746		1970
355L 4/6/8P	610	630	254	355	28	740	680	800	24	6.0	95	170	25	86.0	1530	1776	1776		1970

All dimensions are given for general guidance. Please refer to Eurotherm Drives for specific installation drawings where required.
 Frames 63-132 are aluminium. Frames 160-355 are cast iron



Dimensions

Foot Mounting



Flange Mounting

