

D1C and D1A series electric motor

ALUMINUM



D1A 71 to 132

CAST IRON

D1C 80 to 132



D1C 160 to 355



ELECTRIC MOTORS

STANDARDS COMPLIANCE

DALMO motors are designed and manufactured to meet the most arduous service conditions, such as mining, petrochemical, marine or tropical environments. The motors are made from high quality materials and workmanship. With proper maintenance these motors will operate for 15 years or more, even in the toughest conditions.

INTERNATIONAL STANDARDS

- interantional Electrotechnical Commission-IEC 34 and IEC 72.
- Australian Standards-As 1359.
- British Standards-Bs 5000 and BS 4999.
- The requirements for European "CE" marking.

INTRODUCTION AND LIST OF PARTS
AS 1359-0.BS 4999-0.

DEFINITIONS

IEC-34-1.AS 1359-1.BS 4999-116.

DIMENSION SYMBOLS

AS 1359-2.BS 4999-103.

DIRECTION OF ROTATION AND MARKINGS OF TERMINALS

IEC 34-8. AS 1359-3. BS 4999-108.

RATING PLATE MARKINGS

IEC 34-1. AS 1359-4. This standard specifies

DESIGNATIONS AND DIMENSIONS

IEC 72 AS. 1359-10. BS 4999-141.

CLASSIFICATION OF TYPES OF ENCLOSURE

IEC 34-5. AS 1359-20 BS 4999-105 and AS 1939.

CLASSIFICATION OF METHODS OF COOLING

IEC 34-6. AS 1359-21. BS EN69934-6.

MOUNTING ARRANGEMENTS AND TYPES OF CONSTRUCTION

IEC 34-7. AS 1359-22. BS EN60034-7.

DUTY AND RATINGS

IEC 34-1. AS 1359-30. BS EN60034-2 and BS 5000-10.

SERVICE AND OPERATING CONDITIONS

IEC 34-1. AS 1359-31.

TEMPERATURE LIMITS AND MEASUREMENTS OF TEMPERATURE.

IEC 34-1. AS 1359-32.

METHODS OF DETERMINING LOSSES AND EFFICIENCY

IEC 34-1. AS 1359-33. BS 4999-102.

GENERAL CHARACTERISTICS

IEC34-12. AS 1359-41. BS EN60034-1.

VIBRATION LIMITS

IEC 34-14. AS 1359-50. BS 4999-142.

NOISE LEVEL LIMITS

IEC 34-9.AS 1359-51. BS EN60034-9.

TESTS

IEC 34-1. AS 1359-60. BS 4999-143.

TOLERANCES

IEC 34-1. AS 1359-69.



ELECTRIC MOTORS

STANDARDS COMPLIANCE

DEGREES OF PROTECTION

Designation	First Numeral	Second Numeral
	Protection against contact and ingress of foreign bodies. Protection against hazardous "live" parts and moving mechanical parts	Protection against water
	5. Ingress of dust is not totally prevented, but dust shall not interfere with the satisfactory operation of equipment. A probe of 1mm diameters shall not penetrate the enclosure.	5. Water projected in jets against the enclosure from any direction will have no harmful effects
	6. No ingress of dust	6. Water projected in power jets shall have no harmful effects
IP55	Dust protected	Jetting Water
IP56	Dust protected	Powerful jetting
IP65	Dust Tight	Jetting Water
IP66	Dust Tight	Powerful jetting

All DALMO motors are protected to IP55 .

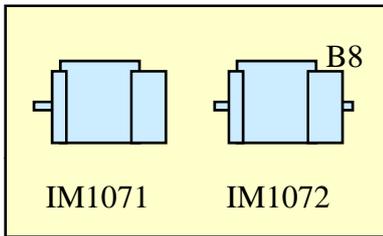
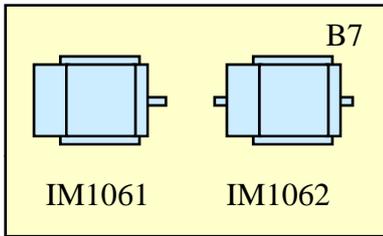
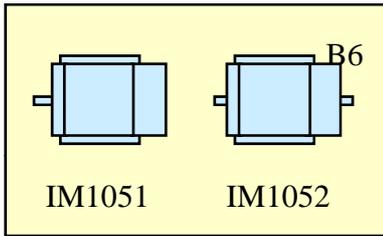
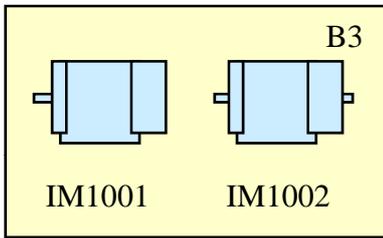


ELECTRIC MOTORS

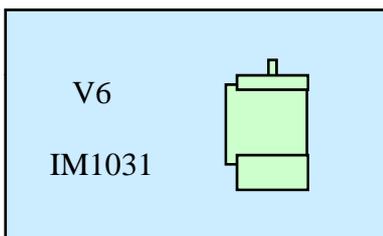
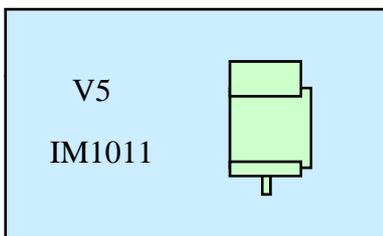
STANDARDS COMPLIANCE

MOUNTING ARRANGEMENTS

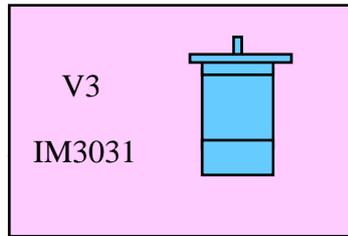
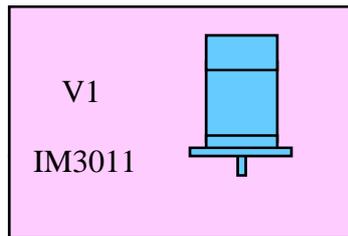
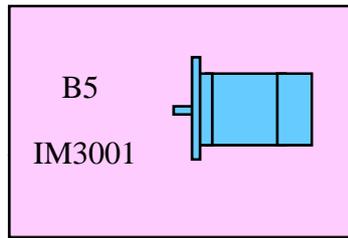
FOOT MTG HORIZ



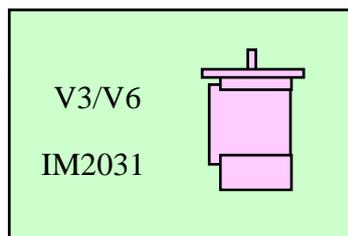
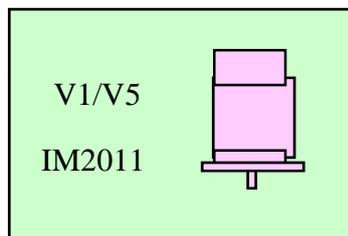
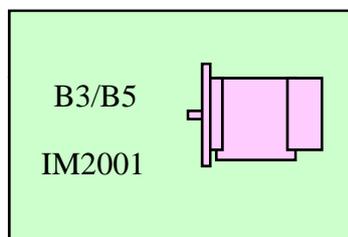
FOOT MTG VERT



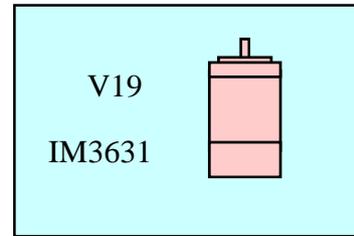
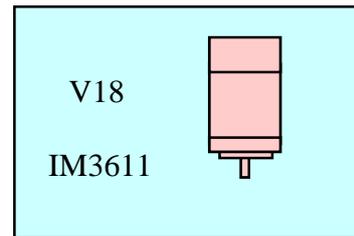
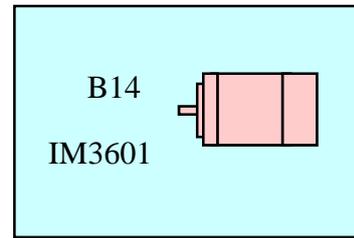
FLANGE MTG



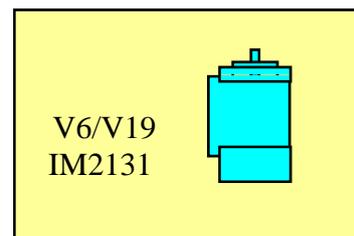
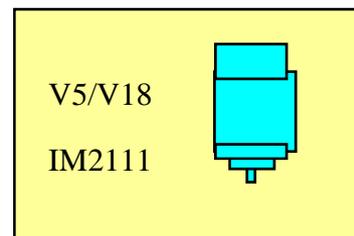
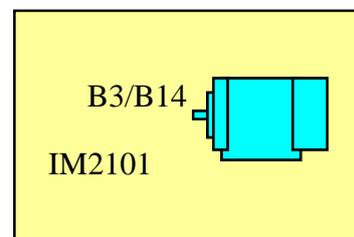
FOOT/FLANGE MTG



FACE MTG



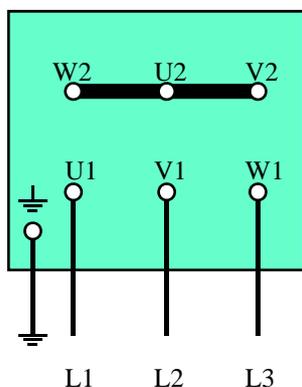
FOOT/FACE MTG



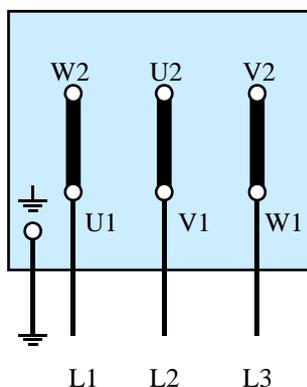
GENERAL SPECIFICATIONS

CONNECTION DIAGRAMS

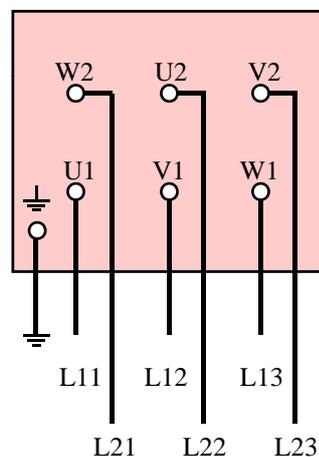
Three Phase motors with cage rotor



Star connection

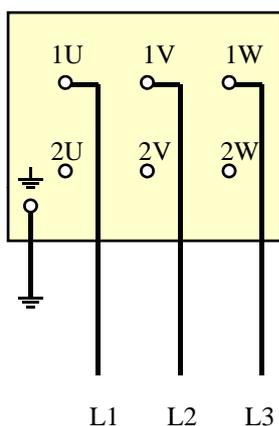


Delta connection

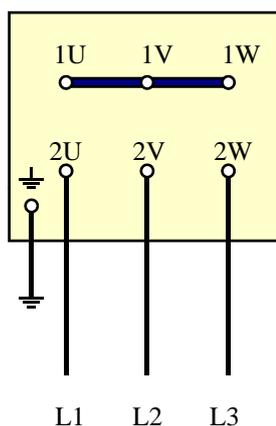


Connection to star-delta starter

Multi-speed motors in Dahlander connection (Tapped Winding).

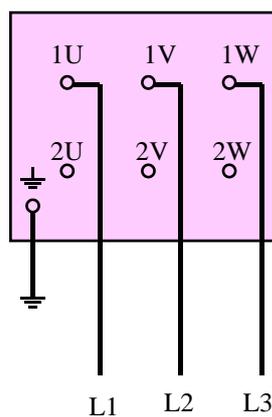


Low speed

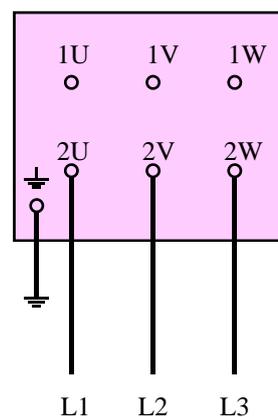


High speed

Multi-speed motors with 2 separate Windings.



Low speed



High speed

GENERAL SPECIFICATIONS

- D1C motors cast iron stator frames, endshields and terminal boxes.
- D1A motors have aluminium stator frames, terminal boxes and cast iron endshields.
- D1A motors have bolt on feet which can be located so that the terminal box can be on top or on either side.
- IP55 as a minimum-higher ratings are available on request. Care must be taken when mounting motors in a non standard mounting position to maintain the IP rating of the motor.
- Cooling to ICO141 up to 355 frames.
- All motors are available in B3(IM1001), B3/5 (IM2001), and V1 (IM3011) configuration. All standard motors up to 280 frame can be mounted in any direction, i.e. B5 (IM3001).
- B14A and B14B flanges are available up to 160 frame size.
- Standard motors are rated for continuous duty at full nameplate rating - S1.
- Standard voltages are 415v 50hz, 400v 50hz, and 380v 50hz, 380v 60hz and 460v 60hz.
- Voltage tolerance is +/-10%. Voltages beyond these limits will cause a high winding temperature rise.
- Motors up to and including 2.2kW are star connected, and cannot be started with a Star/Delta starter. Motors 3kW and above are delta connected with 6 terminals for a Star/Delta starting.
- These motors are designed for operation in high ambient temperatures of 40 deg.C. or more. The standard data relates to ambients up to 40 deg.C. and altitudes below 1000 meters.
- Standard motors have Class F (1000 deg.C.) insulation, with a Class B (80 deg.C.) temperature rise. Motors with a Class H (125 deg.C.) insulation are available on request. Only high quality polyester covered copper winding wire is used in conjunction with inorganic high temperature polyester varnish.
- Stator and rotor laminations are produced from low loss, double insulated, silicon electrical steel.
- All motors are designed for high efficiency and low temperature rise giving a long economical service life.
- In general DALMO motors have high starting torques and low starting currents because the rotors have a double cage design which is pressure die cast in high purity aluminium.
- These motors have very low vibration levels due to high precision balancing of the rotors and fans. Most motors have vibration levels of less than 1 mm/sec.
- High quality vacuum degassed SKF or NSK bearings are used on motors. In general the bearings have C3 clearances and are preloaded with a wave washer on the drive end which increases bearing life and reduces bearing noise. The non drive end bearing is located to prevent shaft "float". Motors up to 132 frame have "ZZ" sealed for life bearing, while motors from 160 frame and above have open bearing with "flush through" regreasing facilities. In line with current practice, motors up to 280 frames have deep groove ball bearing at both ends, while the 315 and 355 frame motors have a roller bearing on the drive end. Roller bearings can be fitted on the drive end of any motor on request.
- Recommended grease for regreasing is Shell Alvania R3.
- Special bearing arrangements can be accommodated such as fitting angular contact,



GENERAL SPECIFICATIONS

- Special bearing arrangements can be accommodated such as fitting angular contact, or 4 point contact QJ bearings, for thrust loads.
- All bearings are protected from the external environment with oil seals on the drive and on the drive and non drive end.
- Labyrinth seals can be fitted as an option for external protection of bearings for 160 frames and above.
- Standard noise levels, (sound pressure at 1 metre), are well within the requirements of most standards, and are generally below 80 dB (A) for small motors and 85 dB (A) for large motors.
- All standard motors are designed to run in either direction.
- Shafts are made from high quality carbon steel.
- Stator frames are made of T200 grade cast iron from 80 frame upwards. 80 to 132 are also available in Aluminium.
- Endshields for all motors are made from T200 cast iron.
- Terminal boxes are made form aluminium for D1A motors, and cast iron for D1C motors. For 160 frame and above, all terminal boxes are cast iron. All terminal boxes are top mounted.
- Cable gland entries are as standard and the thread sizes are specified with the dimensional data in this brochure. Metric threads are also available.
- Fans are made from glass reinforced polypropylene for small motors up to 280 frame size.
- The 315/355 frame motors have aluminium fans are available for all motors as an option.
- Fan Cowls are made from pressed steel for all motor up to 315 frame, and from cast iron for 355 frame.
- Motors can be supplied with force ventilation systems for VVVF drive applications.
- Rainhoods are available for motors mounted shaft down.
- RTD's or thermostats can be supplied as an option.
- Anticondensation heaters can be fitted as an option to all motors and are recommended for IP56 and IP66 motors.
- All motors can be supplied with separate terminal boxes for heaters and/or thermistors.
- All bolts and screws are zinc electroplated as protection against corrosion.
- All cast iron motor parts are cleaned and etch primed (polyvinyl butyral and epoxy) to 25 microns or more before machining. Aluminium parts are etch primed on external surfaces. Final top coat paint is an air drying enamel based on epoxy polymer resins to 25 micron or more.
- Special requirements can be supplied such as:
- Non standard flanges, double shaft extensions non standard shaft sizes, special rotor designs for special torque requirements, 2 or 3 speed motors.
- 80-160 frames are available in aluminium and cast iron 180-355 frames are only available in cast iron.



PERFORMANCE DATA

2 POLE-3000 RPM SYNCHRONOUS SPEED 50 Hz

MOTOR TYPE	FULL LOAD		INL 400V A	IFL 380V A	IFL 400V A	IFL 415V A	IST IFL	EFFICIENCY			POWER FACTOR			FULL LOAD TORQUE N.m	TST TFL	TPU TFL	TM TFL	Mofl J kg.m ²	NOISE LEVEL 1M dB(A)	NETT WEIGHT kg D1C D1A
	RATED OUTPUT kW	LOAD SPEED r/min						100%FL	75%FL	50%FL	100%FL	75%FL	50%FL							
D1C(D1A)63-2	0.18	2780	0.32	0.5	0.5	0.5	4.7	64	63	59	0.81	0.75	0.68	0.62	2.5	2	3	0.0003	53	7
D1C(D1A)711-2	0.37	2820	0.6	1	0.93	0.9	5	71	70.8	68	0.81	0.75	0.69	1.25	2.4	2	2.9	0.0006	57	1 10
D1C(D1A)712-2	0.55	2830	0.7	1.4	1.3	1.2	5.5	75	74	69	0.82	0.75	0.68	1.85	3	2.2	3.3	0.0007	60	1 10
D1C(D1A)801-2	0.75	2840	0.95	1.8	1.7	1.7	5.5	75	74	71	0.83	0.8	0.67	2.5	2.4	1.8	2.6	0.0008	61	19 11
D1C(D1A)802-2	1.1	2840	1.3	2.6	2.4	2.3	5.5	78	77.8	75	0.84	0.79	0.67	3.7	2.4	1.9	2.6	0.0009	64	20 12
D1C(D1A)90S-2	1.5	2840	1.5	3.4	3.2	3.1	6	79	789	77	0.85	0.81	0.71	5.04	2.9	2.2	3.1	0.0012	72	26 16
D1C(D1A)90L-2	2.2	2840	2	4.8	4.6	4.4	6	82	81.8	80	0.85	0.81	0.72	7.4	2.8	2.3	3	0.0014	71	28 18
D1C(D1A)100L-2	3	2850	2.3	6.3	6	5.8	7	83	83.1	82	0.87	0.84	0.75	10	3	2.4	3.4	0.0039	75	43 25
D1C(D1A)112M-2	4	2870	2.7	7.9	7.5	7.3	6.5	85	85	84	0.9	0.87	0.8	13	2.5	2	3	0.0055	76	47 31
D1C(D1A)112M2-2	5.5	2890	3.5	11	10.2	9.8	7.5	86.5	86.7	86	0.9	0.88	0.8	18	2.8	2.2	3.2	0.007	78	55 35
D1C(D1A)132S1-2	5.5	2900	3.9	11	10.3	9.9	7.5	86	86.1	83.5	0.9	0.88	0.79	18	2.9	2.3	3.4	0.0109	80	70 48
D1C(D1A)132S2-2	7.5	2900	4.7	15	13.8	13	7.5	87	86.7	84.6	0.9	0.87	0.8	25	2.7	2.2	3.3	0.013	80	73 51
D1C(D1A)132M-2	11	2900	6.1	21	20	19	7.5	88	88.2	87.5	0.9	0.88	0.8	36	2.5	2.1	3	0.028	83	84 63
D1C160M1-2	11	2930	6	21	20.2	20	7.2	88.4	88.3	87.8	0.89	0.87	0.8	36	2.2	1.9	2.9	0.038	82	125
D1C160M2-2	15	2930	8.4	29	27.3	26	7.2	89	88.9	87.7	0.89	0.87	0.8	49	2.3	1.9	3	0.045	83	135
D1C160L-2	18.5	2930	8.9	35	33	32	7.5	90	89.8	87.3	0.9	0.88	0.82	60	2.4	1.9	2.9	0.055	82	153
D1C180M-2	22	2940	12.1	41	39	38	7.5	90	89.9	87.3	0.9	0.88	0.81	71	2.5	1.6	3.1	0.075	84	175
D1C200L1-2	30	2940	14.8	56	53	51	6.5	91.1	90.8	89.3	0.9	0.87	0.82	97	2.3	1.8	2.7	0.124	84	265
D1C200L2-2	37	2950	16.6	68	64.5	62	7	92	91.7	89.6	0.9	0.88	0.83	120	2.5	1.8	2.9	0.139	88	285
D1C225M-2	45	2950	21	81	77.3	75	7	92.3	91.9	89.5	0.91	0.9	0.86	145	2.5	2.1	3.1	0.233	90	336
D1C250M-2	55	2960	32	100	95.4	92	7.5	92.5	92.7	89.8	0.9	0.88	0.82	177	2.6	2	3.4	0.312	90	430
D1C250M2-2	75	2970	36.5	135	129	124	7	93.5	93	92.1	0.9	0.87	0.81	241	2.2	1.7	3.1	0.412	90	505
D1C280S-2	75	2970	36	136	129	124	7	93.4	92.7	90.1	0.9	0.89	0.84	241	2.2	1.7	3	0.597	89	535
D1C280M-2	90	2970	38.5	161	153	147	7	93.5	93	91.6	0.91	0.9	0.88	289	2.1	1.8	3.1	0.675	90	577
D1C280M2-2	110	2970	41	193	184	177	7	94	93.9	93.1	0.92	0.92	0.9	353	2.7	1.8	3	0.86	90	620
D1C315S-2	110	2975	42.4	195	185	178	7	94.1	93.8	92.7	0.91	0.9	0.88	353	2.4	2	2.7	1.18	89	###
D1C315M-2	132	2975	56	231	219	211	7	94.5	94.4	92.9	0.92	0.91	0.87	423	2.4	2	2.8	1.55	89	###
D1C315L1-2	160	2975	63	279	265	256	7.5	94.6	94.3	93.2	0.92	0.91	0.88	513	2.7	1.8	3	1.76	89	###
DD1C315L2-2	200	2975	69	348	331	319	7.5	94.8	94.7	93.3	0.92	0.82	0.75	642	2.7	1.9	3.1	2.02	90	###
D1C355M-2	250	2985	157	470	446	430	6.5	95.1	94.2	92.3	0.85	0.83	0.76	800	1.8	1.5	2.5	3.56	94	###
D1C355L-2	315	2985	188	582	553	533	6.5	95.6	95	93.5	0.86	0.83	0.74	1007	1.8	1.5	2.6	4.15	94	###
D1C400L-2	355	2980	210	630	598	577	6.99	95	94.2	92	0.92	0.88	0.81	1138	1.42	1.1	2.29	6.6	97	2110
D1C400L1-2	400	2980	230	708	673	648	6.75	95.2	94.3	92.1	0.92	0.89	0.82	1282	1.35	1.1	2.21	7.3	97	2240
D1C400L2-2	450	2980	250	795	755	728	7.12	95.5	94.5	92.2	0.92	0.89	0.82	1442	1.43	1.1	2.32	7.9	97	2280

Unless otherwise stated, D1A and D1C data are the same.

- INL=No Load Current
- IFL=Full Load Current
- IST=Locked Rotor Current
- TST=Locked Rotor Torque
- TPU=Pull Up Torque
- TM=Maximum Torque
- TFL=Full Load Torque



ELECTRIC MOTORS

PERFORMANCE DATA

4 POLE-1500 RPM SYNCHRONOUS SPEED 50 Hz

MOTOR TYPE	RATED OUTPUT kW	FULL LOAD SPEED r/min	INL 400V A	IFL 380V A	IFL 400V A	IFL 415V A	IST IFL	EFFICIENCY			POWER FACTOR			FULL LOAD TORQUE N.m	TST TFL	TPU TFL	TM TFL	Mofl J kg.m ²	NOISE LEVEL IM dBA	NETT WEIGHT kg D1C D1A
								100%FL	75%FL	50%FL	100%FL	75%FL	50%FL							
D1A632-4	0.18	1370	0.45	0.6	0.57	0.6	4	63	63	58	0.72	0.62	0.53	1.25	2.2	2	2.5	0.0006	49	7
D1A712-4	0.37	1370	0.75	1.1	1	1	4.3	69	71	70	0.74	0.65	0.53	2.58	2.3	2	2.5	0.0016	50	10
D1C(D1A)801-4	0.55	1410	1	1.5	1.46	1.4	4.5	72.5	73	69	0.75	0.67	0.54	3.7	2.2	1.9	2.4	0.002	55	18 10
D1C(D1A)802-4	0.75	1410	1.4	2.1	2	1.9	4.8	72.6	73.1	69	0.76	0.66	0.54	5.08	2.1	1.8	2.4	0.002	55	19 11
D1C(D1A)90S-4	1.1	1410	1.8	2.9	2.7	2.6	4.5	76	77	75	0.77	0.68	0.55	7.45	2	1.8	2.3	0.0021	58	25 15
D1C(D1A)90L-4	1.5	1410	2.2	3.7	3.5	3.4	4.7	79	80.5	79.5	0.79	0.71	0.57	10.2	2.4	2	2.5	0.003	58	26 17
D1C(D1A)100L1-4	2.2	1410	3	5.2	4.9	4.8	5.5	80	80.7	79.2	0.81	0.72	0.6	14.9	2.5	2.1	2.7	0.007	61	35 25
D1C(D1A)100L2-4	3	1410	3.7	6.8	6.5	6.2	5.7	82.5	83.3	82	0.81	0.74	0.61	20.3	2.4	2.1	2.9	0.007	61	38 28
D1C(D1A)112M-4	4	1430	4.5	8.9	8.4	8.1	6	83.6	84.7	83.5	0.82	0.76	0.65	26.7	2.5	2.1	2.9	0.0095	65	50 35
D1C(D1A)132S-4	5.5	1445	5.6	12	11.2	11	6.5	86.3	87	85.2	0.83	0.77	0.66	36.3	2.4	2	3	0.0214	71	70 50
D1C(D1A)132M-4	7.5	1445	6.5	15	14.6	14	7	87.5	88	87	0.85	0.8	0.7	49.6	2.5	2	2.8	0.0296	71	80 58
D1C(D1A)132M2-4	11	1445	8.3	22	21.1	20	6.5	88.6	89.2	88.1	0.85	0.81	0.71	72.7	2.2	1.8	2.6	0.062	71	90 67
D1C160M-4	11	1445	8.5	22	21.3	21	7	88.7	87.5	83.3	0.84	0.81	0.74	72.7	2.1	1.8	2.6	0.075	75	125
D1C160L-4	15	1455	12.5	30	28.6	28	7.5	90	88.7	83.5	0.84	0.8	0.75	98.4	2.6	2	3.3	0.092	75	147
D1C180M-4	18.5	1470	13.5	36	34.3	33	7	90	91.2	89	0.87	0.82	0.73	120	2.3	1.9	3.2	0.139	76	170
D1C180L-4	22	1470	14.8	42	39.7	38	7.5	91	91.1	89.8	0.88	0.84	0.75	143	2.4	2	3.1	0.158	76	185
D1C200L-4	30	1470	18.5	56	53.5	52	6.5	92	91.9	90.8	0.88	0.86	0.78	195	2.2	1.8	3	0.262	79	285
D1C225S-4	37	1475	23	71	67	65	6.6	92	92	91	0.87	0.85	0.77	239	2.1	1.7	2.5	0.406	81	338
D1C225M-4	45	1475	27	85	81	78	6.7	92.4	92.5	91.3	0.87	0.85	0.78	291	2.3	1.8	2.9	0.469	81	358
D1C250M-4	55	1475	34	104	98	95	6.5	92.8	92.7	91.6	0.87	0.84	0.78	356	2.4	1.9	2.7	0.66	83	450
D1C250M2-4	75	1480	48	140	133	129	6.5	93.8	93.7	93.5	0.86	0.83	0.76	484	2.2	1.7	2.9	0.88	83	535
D1C280S-4	75	1480	46	138	132	127	6	93.5	93.2	91.7	0.88	0.86	0.8	484	2.1	1.7	2.9	1.12	4	563
D1C280M-4	90	1480	45	163	155	150	6.5	94	93.8	92.8	0.89	0.87	0.81	581	2.3	1.7	2.9	1.46	86	635
D1C280M2-4	110	1480	55	199	189	182	6.4	94.3	94.2	93.5	0.89	0.88	0.82	710	2.4	1.9	2.6	2.68	86	720
D1C315S-4	110	1485	53	201	191	184	6	94.4	94.2	94	0.88	0.88	0.83	707	2	1.6	2.9	3.11	87	###
D1C315M-4	132	1485	69	244	231	223	7	94.6	94.5	93	0.87	0.86	0.82	849	1.9	1.6	3.1	3.29	88	###
D1C315L1-4	160	1485	84	296	281	271	6	95.5	95	94	0.86	0.85	0.79	1029	2.3	1.7	3	3.79	88	###
D1C315L2-4	200	1485	104	360	342	329	5	96	95.5	94.4	0.88	0.87	0.8	1286	2.5	1.9	2.7	4.49	89	###
D1C355M-4	250	1485	106	444	422	407	6.5	95	94.5	93.1	0.9	0.89	0.86	1607	2.1	1.7	3.1	5.67	89	###
D1C355L-4	315	1485	108	551	523	504	6.3	95.5	95.4	94.1	0.91	0.9	0.88	2025	2	1.6	3.1	6.66	90	###
D1C400L-4	355	1486	160	613	582	561	6.88	95.7	95.4	94.3	0.919	0.908	0.865	2281	1.63	1.2	2.38	13.1	91	2650
D1C400L1-4	400	1484	180	693	658	635	6.28	95.7	95.4	94.3	0.916	0.905	0.862	2574	1.49	1.2	2.18	14.6	91	2680
D1C400L2-4	450	1485	200	785	746	719	6.6	95.8	95.5	94.4	0.909	0.90	0.857	2894	1.58	1.2	2.28	15.9	91	2730

Unless otherwise stated, D1A and D1C data are the same.

- INL=No Load Current
- IFL=Full Load Current
- IST=Locked Rotor Current
- TST=Locked Rotor Torque
- TPU=Pull Up Torque
- TM=Maximum Torque
- TFL=Full Load Torque



ELECTRIC MOTORS

PERFORMANCE DATA

6 POLE-1000 RPM SYNCHRONOUS SPEED 50 Hz

MOTOR TYPE	RATED OUTPUT kW	FULL LOAD SPEED r/min	INL 400V A	IFL 380V A	IFL 400V A	IFL 415V A	IST IFL	EFFICIENCY			POWER FACTOR			FULL LOAD TORQUE N.m	TST TFL	TPU TFL	TM TFL	Mofl J kg.m ²	NOISE LEVEL 1M dB(A)	NETT WEIGHT kg	D1C D1A
								100%FL	75%FL	50%FL	100%FL	75%FL	50%FL								
D1C(D1A)801-6	0.37	920	0.8	1.2	1.2	1.1	3.5	63.3	63	55	0.72	0.62	0.51	3.8	1.8	1.6	2	0.0023	50	18	11
D1C(D1A)802-6	0.55	920	1.1	1.7	1.6	1.5	3.5	69	70	63	0.72	0.62	0.5	5.7	1.8	1.6	2	0.003	50	20	14
D1C(D1A)90S-6	0.75	920	1.5	2.2	2.1	2	4	71.5	72.4	67	0.72	0.62	0.51	7.8	1.9	1.7	2.2	0.003	55	23	16
D1C(D1A)90L-6	1.1	920	2	3.1	3	2.9	4	73	74.2	70	0.73	0.64	0.51	11.4	2.1	1.8	2.5	0.0035	60	26	19
D1C(D1A)100L-6	1.5	920	2.5	4	3.8	3.7	4.5	75.8	76.1	72	0.75	0.66	0.53	15.4	2.3	1.9	2.7	0.0069	65	34	23
D1C(D1A)112M-6	2.2	935	3.1	5.6	5.3	5.1	4.5	78.5	78.7	76	0.76	0.73	0.6	22.4	2	1.7	2.3	0.0138	69	47	30
D1C(D1A)132S-6	3	960	4.7	7.4	7	6.8	5.5	81.4	81.1	77	0.76	0.68	0.55	29.7	2	1.7	2.4	0.0229	69	53	43
D1C(D1A)132M1-6	4	960	5.8	9.6	9.1	8.8	6	83.4	83.2	80	0.76	0.68	0.56	39.6	2.2	1.8	3	0.035	66	71	54
D1C(D1A)132M2-6	5.5	960	7.7	13	12.2	12	6.5	84.5	84.3	81	0.77	0.69	0.56	54.4	2.2	1.9	2.5	0.045	66	81	59
D1C160M-6	7.5	965	8.1	17	16.1	16	5.5	87.5	88.1	87	0.77	0.71	0.6	74.2	2	1.7	2.4	0.088	72	122	
D1C160L-6	11	965	10.7	24	23	22	6	88.4	89	88	0.78	0.75	0.61	109	2.1	1.7	2.3	0.115	72	147	
D1C180L-6	15	970	14	32	30.2	29	6	88.6	88.9	87.5	0.81	0.77	0.64	148	2.3	1.7	2.3	0.207	72	180	
D1C200L1-6	18.5	975	17	38	36.2	35	6	90	89.8	88.5	0.82	0.77	0.65	181	2.1	1.7	3	0.315	72	260	
D1C200L2-6	22	975	16.8	44	42	41	6	90	90.1	89	0.84	0.8	0.7	216	2.1	1.6	2.6	0.35	72	270	
D1C225M-6	30	980	21	59	56.3	54	5.5	91.5	91.4	90.5	0.84	0.81	0.72	292	2.4	1.6	2.7	0.547	72	330	
D1C250M-6	37	980	25	70	66.7	64	6.6	92.1	91.8	90	0.87	0.82	0.75	361	2.2	1.8	2.7	0.835	77	425	
D1C280S-6	45	985	27	85	81	78	6.6	92	92.2	91	0.87	0.83	0.75	436	2.4	1.7	3.2	1.4	77	520	
D1C280M1-6	55	985	30	104	99	95	6.6	92.6	93	92.3	0.87	0.85	0.8	533	2.2	1.6	3	1.65	77	570	
D1C280M2-6	75	985	48	138	131	127	6.8	93.6	93	91.9	0.88	0.85	0.79	727	2.8	1.8	3.1	3.2	80	670	
D1C315S-6	75	985	45	142	135	130	6	94.2	94.1	93.2	0.85	0.83	0.78	727	2.2	1.7	2.9	4.1	80	###	
D1C315M-6	90	985	51	170	162	156	6	94.4	94.3	93.3	0.85	0.83	0.78	872	2.2	1.6	3.2	4.28	80	###	
D1C315L1-6	110	985	57	209	198	191	6	94.3	95.1	0.94	0.85	0.84	0.79	1066	2.2	1.7	3	5.45	80	###	
D1C315L2-6	132	990	69	244	232	223	6.5	94.5	94.7	94.1	0.87	0.85	0.8	1273	2.3	1.5	2.8	6.12	80	###	
D1C355M1-6	160	990	93	291	276	266	6.8	95	95	933	0.88	0.86	0.81	1543	1.8	1.4	2.5	8.85	83	###	
D1C355M2-6	200	990	94	360	342	329	6.5	96	96	95	0.88	0.86	0.81	1929	2	1.5	2.4	9.55	83	###	
D1C355L-6	250	990	108	445	422	407	6	96	96	94.8	0.89	0.87	0.82	2411	1.8	1.4	2.4	10.63	83	###	
D1C400L-6	280	988	135	502	477	460	5.95	95.4	95.3	94.2	0.889	0.88	0.81	2706	1.65	1.2	2.12	14.9	92	2530	
D1C400L1-6	315	987	150	564	536	516	6.53	95.4	95.3	94.1	0.889	0.88	0.81	3048	1.56	1.2	2.0	16.4	92	2730	

Unless otherwise stated, D1A and D1C data are the same.

- INL=No Load Current
- IFL=Full Load Current
- IST=Locked Rotor Current
- TST=Locked Rotor Torque
- TPU=Pull Up Torque
- TM=Maximum Torque
- TFL=Full Load Torque



ELECTRIC MOTORS

PERFORMANCE DATA

8.10.12POLE-750.600.500 RPM SYNCHRONOUS SPEED 50 Hz

MOTOR TYPE	RATED OUTPUT kW	FULL LOAD SPEED r/min	INL 400V A	IFL 380V A	IFL 400V A	IFL 415V A	IST IFL	EFFICIENCY			POWER FACTOR			FULL LOAD TORQUE N.m	TST TFL	TPU TFL	TM TFL	Mofl J kg.m ²	NOISE LEVEL 1M dB(A)	NETT WEIGHT kg	D1C D1A
								100%/FL	75%/FL	50%/FL	100%/FL	75%/FL	50%/FL								
D1C(D1A)801-8	0.18	650	0.5	0.8	0.72	0.7	3.2	0.59	54	44	0.62	0.56	0.45	2.6	2	1.8	2.3	0.002	52	19	13
D1C(D1A)802-8	0.25	650	0.7	1	0.98	1	3.3	60.3	54.5	44.5	0.61	0.54	0.45	3.6	2	1.8	2.4	0.003	52	20	14
D1C(D1A)90S-8	0.37	670	1	1.4	1.3	1.3	3.4	65	64.5	56	0.61	0.53	0.43	5.3	1.9	1.7	2.2	0.004	56	30	18
D1C(D1A)90L-8	0.55	670	1.5	2	1.9	1.9	3.5	68.1	66.6	59	0.6	0.51	0.42	7.8	1.9	1.7	2.2	0.004	56	33	19
D1C(D1A)100L1-8	0.75	690	1.7	2.4	2.26	2.2	3.6	70.5	70	63	0.68	0.56	0.45	10.4	1.9	1.7	2.3	0.008	59	35	21
D1C(D1A)100L2-8	1.1	690	2.4	3.3	3.15	3	3.7	73	73.5	69	0.69	0.59	0.46	15.2	2	1.8	2.4	0.011	59	37	23
D1C(D1A)112M1-8	1.5	690	3	4.3	4.1	4	4	76.5	77	74	0.69	0.59	0.45	20.7	2.3	1.9	2.5	0.017	60	47	32
D1C(D1A)112M2-8	2.2	690	3.6	6.1	5.8	5.6	4.5	77.5	77.2	74	0.71	0.6	0.5	30.4	2.1	1.8	2.4	0.017	60	50	35
D1C(D1A)132S-8	2.2	710	3.7	5.8	5.5	5.3	4.7	79.5	79.6	77.5	0.73	0.64	0.51	29.6	2.1	1.8	2.4	0.03	60	65	50
D1C(D1A)132M1-8	3	710	4.5	7.6	7.2	7	4.7	81	82	80	0.74	0.66	0.54	40.3	2.2	1.9	2.5	0.04	65	73	57
D1C(D1A)132M2-8	4	710	5.8	9.9	9.4	9.1	4.6	81.5	82	80.1	0.75	0.67	0.55	53.8	2.1	1.8	2.4	0.04	65	78	62
D1C160M1-8	4	720	6	10	9.6	9.2	4.6	81.4	81.7	80	0.74	0.66	0.55	53	1.9	1.7	2.2	0.075	65	110	
D1C160M2-8	5.5	720	7.8	13	12.5	12	5	85.5	86.6	85.4	0.74	0.67	0.54	72.9	2.1	1.8	2.6	0.093	65	120	
D1C160L-8	7.5	720	9.5	18	16.7	16	6	86.6	87.4	86.3	0.75	0.68	0.55	99.5	2.2	1.9	2.6	0.125	65	145	
D1C180L-8	11	720	13	25	24	23	5.5	87	87.5	86.1	0.76	0.71	0.58	145.9	2.3	1.9	2.6	0.203	70	170	
D1C200L-8	15	730	16	34	32	31	5.6	89	89.3	88.2	0.76	0.71	0.59	196	2.2	1.8	2.5	0.34	73	265	
D1C225S-8	18.5	730	21	42	39.7	38	6	89.7	89.9	89	0.75	0.71	0.6	242	2.2	1.8	2.5	0.49	73	315	
D1C225M-8	22	730	22	48	45	44	5.2	90.3	90.5	90	0.78	0.73	0.62	287.8	2.1	1.7	2.7	0.547	73	325	
D1C250M-8	30	730	29	64	60.7	59	5.6	90.3	90.6	88.5	0.79	0.74	0.63	392	2.1	1.8	2.6	0.83	75	430	
D1C280S-8	37	740	31	77	73.4	71	5.5	91	91.1	90	0.8	0.76	0.65	477	2.2	1.9	2.5	1.4	76	520	
D1C280M1-8	45	740	36	92	87.6	85	5.4	91.5	91.7	90.1	0.81	0.77	0.66	580	2.2	1.8	3.1	1.65	76	575	
D1C280M2-8	55	740	44	111	106	102	6	92.6	92.1	91	0.81	0.78	0.67	709	2.1	1.9	2.7	3.65	79	670	
D1C315S-8	55	740	43	111	105	101	5.6	93.3	93	993	0.81	0.78	0.66	709	1.9	1.6	2.5	4.8	79	1040	
D1C315M-8	75	740	51	149	141	136	6	93.5	93.7	91.6	0.82	0.78	0.7	967	2.1	1.5	2.4	5.58	80	1150	
D1C315L1-8	90	740	67	178	169	163	6.4	93.7	93.8	92.2	0.82	0.77	0.68	1161	2.3	1.8	2.5	6.37	80	1235	
D1C315L2-8	110	740	76	217	206	199	6.3	94	94.1	92.5	0.82	0.79	0.71	1419	2.2	1.9	2.5	7.23	80	1325	
D1C355M1-8	132	745	87	255	242	233	6	94.8	94.6	93.5	0.83	0.79	0.7	1692	1.7	1.1	2.2	10.55	79	1960	
D1C355M2-8	160	745	106	308	293	282	5.5	95	95.1	94	0.83	0.8	0.72	2050	1.5	1.2	2.2	11.73	79	2020	
D1C355L-8	200	745	115	374	356	343	5.3	95.5	95.2	94.5	0.85	0.84	0.76	2563	1.4	1.3	2.3	12.85	79	2190	
D1C400L-8	220	740	145	420	399	385	6.62	95	94.7	93.5	0.838	0.81	0.73	2839	1.99	1.3	2.44	14.9	85	2590	
D1C400L1-8	250	740	165	475	451	435	6.6	95.1	94.8	93.6	0.84	0.81	0.74	3226	1.98	1.3	2.42	16.4	85	2600	
D1C315S-10	45	590	48	100	94.7	91.3	6.2	91.5	92.5	91.8	0.75	0.725	0.62	728.4	1.5	1.1	2.0	4.79	82	810	
D1C315M-10	55	590	58	121	115	111	6.2	92	92.9	92	0.75	0.72	0.61	890.3	1.5	1.3	2.0	6.37	82	930	
D1C315L1-10	75	590	78	162	154	148	6.2	92.5	93.5	92.5	0.76	0.73	0.625	1214	1.5	1.2	2.0	7.0	82	1045	
D1C315L2-10	90	590	92.5	191	182	175	6.2	93	93.5	92.3	0.77	0.73	0.623	1457	1.5	1.3	2.0	7.15	82	1115	
D1C355M1-10	110	590	111	230	219	211	6	93.2	94.1	92.9	0.78	0.755	0.66	1781	1.3	1.2	2.0	12.55	90	1563	
D1C355M2-10	132	590	132	275	261	252	6	93.5	94	92.8	0.78	0.75	0.65	2137	1.3	1.4	2.0	13.75	90	1661	
D1C355L-10	160	590	160	334	317	306	6	93.5	94.1	93	0.78	0.754	0.65	2590	1.3	1.4	2.0	14.86	90	1802	
D1C400L-10	185	590	180	374	355	343	5.49	94.8	95.2	94.1	0.792	0.76	0.65	2994	1.7	1.4	2.0	20.7	93	2530	
D1C400L1-10	200	590	195	405	385	371	5.5	94.8	95.2	94.1	0.792	0.76	0.65	3237	1.7	1.4	2.04	21.7	93	2600	
D1C400L2-10	220	590	214	445	423	408	5.6	94.7	95.1	94	0.793	0.77	0.66	3561	1.7	1.4	2.05	23.8	93	2680	
D1C400L-12	132	490	160	297	282	272	5.1	90.1	90.5	89.5	0.75	0.72	0.63	2573	1.5	1.2	1.8	18.3	94	1680	
D1C400L1-12	160	490	193	358	340	328	5.2	90	90.3	89.2	0.755	0.724	0.633	3118	1.5	1.2	1.8	20.7	94	1820	
D1C400L2-12	185	490	220	410	390	375	5.3	90.2	90.6	89.5	0.76	0.726	0.635	3606	1.5	1.2	1.7	23.8	94	2550	

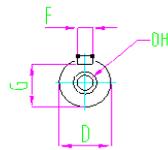
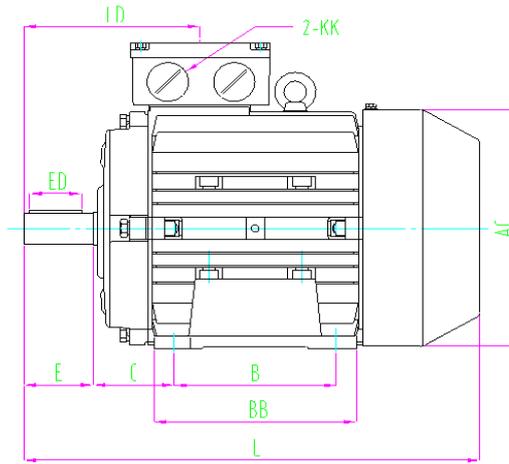
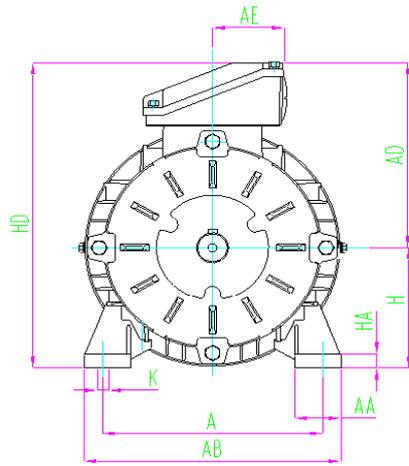
Unless otherwise stated, D1A and D1C data are the same.

- INL=No Load Current
- IFL=Full Load Current
- IST=Locked Rotor Current
- TST=Locked Rotor Torque
- TPU=Pull Up Torque
- TM=Maximum Torque
- TFL=Full Load Torque

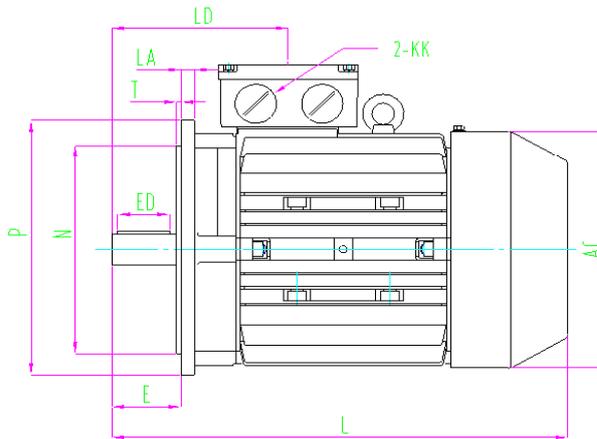
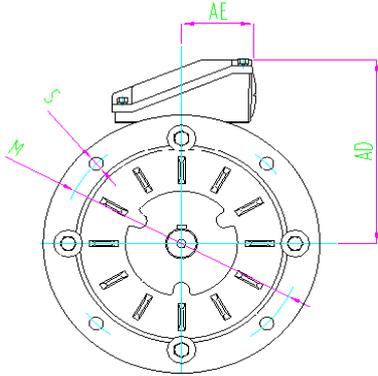


ELECTRIC MOTORS

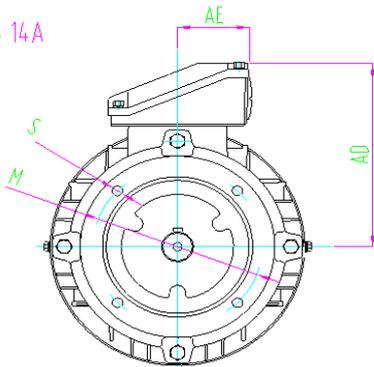
DIMENSIONS



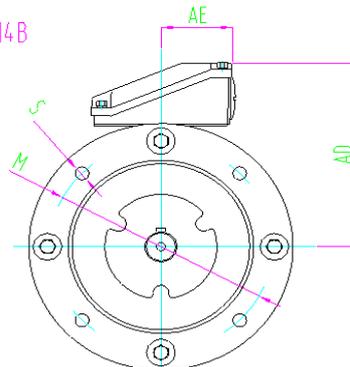
B 5



B 14A



B 14B



D1A Series

ELECTRIC MOTORS

DIMENSIONS

B3

Frame	A	AA	AB	AC	AD	AE	B	BB	C	D	DH	E	ED	F	G	H	HA	HD	K	KK	L	LD
D1A71	112	30	140	145	124	55	90	140	45	14	M4x10	30	20	5	11	71	6	195	7	M20	250	98
D1A80	125	35	165	175	140	65	100	130	50	19	M6x16	40	25	6	16	80	10	215	10	M25	295	115
D1A90S	140	37	180	195	150	65	100	140	56	24	M8x19	50	40	8	20	90	13	235	10	M25	320	130
D1A90L	140	37	180	195	150	65	125	165	56	24	M8x19	50	40	8	20	90	13	235	10	M25	345	130
D1A100	160	45	200	215	165	65	140	180	63	28	M10x22	60	45	8	24	100	14	265	12	M32	375	145
D1A112	190	45	230	240	180	65	140	185	70	28	M10x22	60	45	8	24	112	14	290	12	M32	405	150
D1A132S	216	50	275	275	190	65	140	205	89	38	M12x28	80	60	10	33	132	16	325	12	M32	470	180
D1A132M	216	50	275	275	190	65	178	243	89	38	M12x28	80	60	10	33	132	16	325	12	M32	505	180

B5

Frame	M	N	P	S	T	LA
71	130	110	160	10	3.5	8
80	165	130	200	12	3.5	10
90S	165	130	200	12	3.5	12
90L	165	130	200	12	3.5	12
100	215	180	250	15	4	12
112	215	180	250	15	4	12
132S	265	230	300	15	4	13
132M	265	230	300	15	4	13

B14A

Frame	M	N	P	S	T
71	85	70	105	M6	2.5
80	100	80	120	M6	3
90	115	95	140	M8	3
100	130	110	160	M8	3.5
112	130	110	160	M8	3.5
132	165	130	200	M10	3.5
160M	215	180	250	M12	4
160L	215	180	250	M12	4

B5 REDUCED

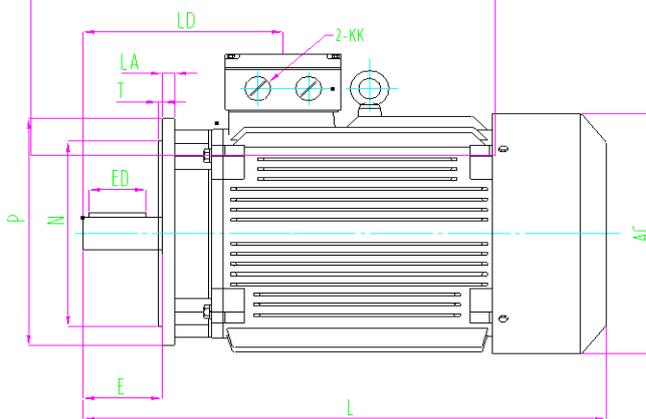
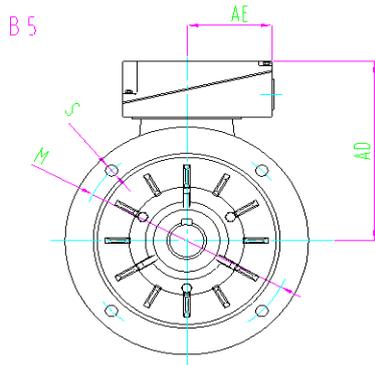
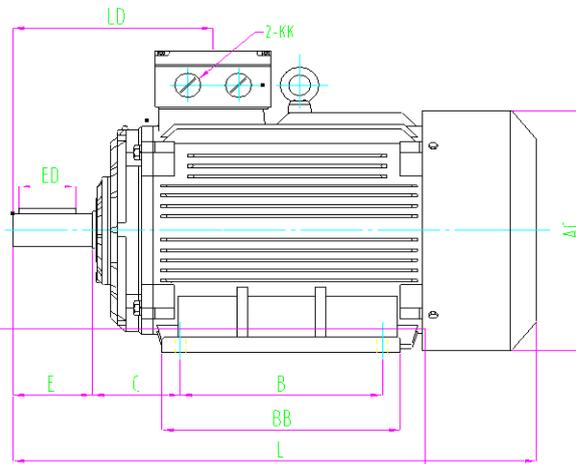
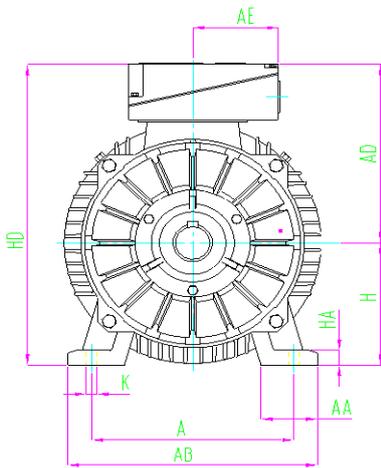
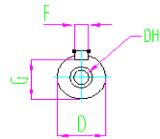
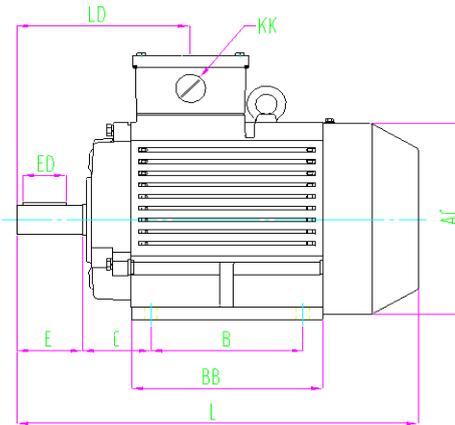
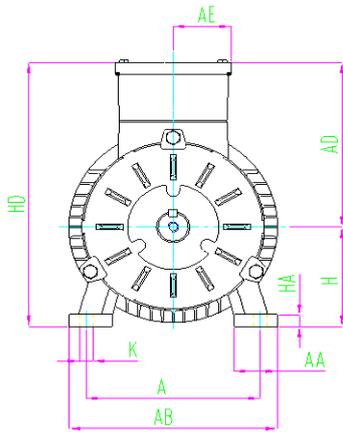
Frame	M	N	P	S	T	LA
71	115	95	140	10	3.5	8
80	130	110	160	10	3.5	8
90S	130	110	160	10	3.5	8
90L	130	110	160	10	3.5	8
100	165	130	200	12	3.5	12
112	165	130	200	12	3.5	12
132S	215	180	250	12	4	12
132M	215	180	250	12	4	12

B14B

Frame	M	N	P	S	T
71	115	95	140	M8	3
80	130	110	160	M8	3.5
90	130	110	160	M8	3.5
100	165	130	200	M10	3.5
112	165	130	200	M10	3.5



DIMENSIONS



D1C Series

ELECTRIC MOTORS

DIMENSIONS

Frame	A	AA	AB	AC	AD	AE	B	BB	C	D	DH	E	ED	F	G	H	HA	HD	K	KK	L	LA	LD	M	N	P	S	T
D1C80	125	35	165	175	140	65	100	130	50	19	M6×16	40	25	6	16	80	10	215	10	M25	295	10	115	165	130	200	4-12	3.5
D1C90S	140	37	180	195	150	65	100	140	56	24	M8×19	50	40	8	20	90	13	235	10	M25	320	12	130	165	130	200	4-12	3.5
D1C90L	140	37	180	195	150	65	125	165	56	24	M8×19	50	40	8	20	90	13	235	10	M25	345	12	130	165	130	200	4-12	3.5
D1C100	160	45	200	215	165	65	140	180	63	28	M10×22	60	45	8	24	100	14	265	12	M32	375	12	145	215	180	250	4-15	4
D1C112	190	45	230	240	180	65	140	185	70	28	M10×22	60	45	8	24	112	14	290	12	M32	405	12	150	215	180	250	4-15	4
D1C132S	216	50	275	275	190	65	140	205	89	38	M12×28	80	60	10	33	132	16	325	12	M32	470	13	180	265	230	300	4-15	4
D1C132M	216	50	275	275	190	65	178	243	89	38	M12×28	80	60	10	33	132	16	325	12	M32	505	13	180	265	230	300	4-15	4
D1C160M	254	65	314	325	270	110	210	260	108	42	M16×36	110	90	12	37	160	20	425	15	M40	615	15	256	300	250	350	4-19	5
D1C160L	254	65	314	325	270	110	254	305	108	42	M16×36	110	90	12	37	160	20	425	15	M40	670	15	256	300	250	350	4-19	5
D1C180M	279	70	349	380	288	110	241	311	121	48	M16×36	110	90	14	42.5	180	22	455	15	M40	700	18	272	300	250	350	4-19	5
D1C180L	279	70	349	380	288	110	279	348	121	48	M16×36	110	90	14	42.5	180	22	455	15	M40	740	18	272	300	250	350	4-19	5
D1C200	318	70	388	410	310	160	305	370	133	55	M20×42	110	90	16	49	200	25	510	19	M50	770	20	306	350	300	400	4-19	5
D1C225S(2P)	356	77	431	470	335	160	286	370	149	55	M20×42	110	90	16	49	225	28	560	19	M50	820	20	330	400	350	450	8-19	5
D1C225S(4-8P)	356	77	431	470	335	160	286	370	149	60	M20×42	140	110	18	53	225	28	560	19	M50	820	20	330	400	350	450	8-19	5
D1C225M(2P)	356	77	431	470	335	160	311	393	149	55	M20×42	110	90	16	49	225	28	560	19	M50	815	20	330	400	350	450	8-19	5
D1C225M(4-8P)	356	77	431	470	335	160	311	393	149	60	M20×42	140	110	18	53	225	28	560	19	M50	845	20	330	400	350	450	8-19	5
D1C250M(2P)	406	80	480	495	360	170	349	445	168	60	M20×42	140	110	18	53	250	30	615	24	M50	915	22	345	500	450	550	8-19	5
D1C250M(4-8P)	406	80	480	495	360	170	349	445	168	65	M20×42	140	110	18	58	250	30	615	24	M50	915	22	345	500	450	550	8-19	5
D1C250M2(4P)	406	80	480	495	360	170	349	445	168	70	M20×42	140	110	20	63	250	30	615	24	M50	915	22	345	500	450	550	8-19	5
D1C280S(2P)	457	85	542	580	410	170	368	485	190	65	M20×42	140	110	18	58	280	35	690	24	M63	985	23	380	500	450	550	8-19	5
D1C280S(4-8P)	457	85	542	580	410	170	368	485	190	75	M20×42	140	110	20	68	280	35	690	24	M63	985	23	380	500	450	550	8-19	5
D1C280M(2P)	457	85	542	580	410	170	419	538	190	65	M20×42	140	110	18	58	280	35	690	24	M63	1035	23	380	500	450	550	8-19	5
D1C280M(4-8P)	457	85	542	580	410	170	419	538	190	75	M20×42	140	110	20	68	280	35	690	24	M63	1035	23	380	500	450	550	8-19	5
D1C280M2(4-8P)	457	85	542	580	410	170	419	538	190	80	M20×42	170	140	22	71	280	35	690	24	M63	1035	23	380	500	450	550	8-19	5
D1C315S(2P)	508	120	628	619	512	160	406	570	216	65	M20×42	140	110	18	58	315	45	830	28	M63	1180	24	397	600	550	660	8-24	6
D1C315S(4-8P)	508	120	628	619	512	160	406	570	216	80	M20×42	170	140	22	71	315	45	830	28	M63	1210	24	397	600	550	660	8-24	6
D1C315M(2P)	508	120	628	619	512	160	457	680	216	65	M20×42	140	110	18	58	315	45	830	28	M63	1290	24	397	600	550	660	8-24	6
D1C315M(4-8P)	508	120	628	619	512	160	457	680	216	80	M20×42	170	140	22	71	315	45	830	28	M63	1320	24	397	600	550	660	8-24	6
D1C315L(2P)	508	120	628	619	512	160	508	740	216	65	M20×42	140	110	18	58	315	45	830	28	M63	1290	24	397	600	550	660	8-24	6
D1C315L(4-8P)	508	120	628	619	512	160	508	740	216	80	M20×42	170	140	22	71	315	45	830	28	M63	1320	24	397	600	550	660	8-24	6
D1C315L1(4P)	508	120	628	619	512	160	508	740	216	90	M24×50	170	140	25	81	315	45	830	28	M63	1320	24	397	600	550	660	8-24	6
D1C355M(2P)	610	140	740	720	655	190	560	750	254	75	M20×42	140	110	20	68	355	49	1010	28	M72	1500	25	420	740	680	800	8-24	6
D1C355M(4-10P)	610	140	740	720	655	190	560	750	254	95	2-M16×30	170	160	25	86	355	49	1010	28	M72	1530	25	450	740	680	800	8-24	6
D1C355L(2P)	610	140	740	720	655	190	630	750	254	75	M20×42	140	110	20	68	355	49	1010	28	M72	1500	25	420	740	680	800	8-24	6
D1C355L(4-10P)	610	140	740	720	655	190	630	750	254	95	2-M16×30	170	160	25	86	355	49	1010	28	M72	1530	25	450	740	680	800	8-24	6
D1C400L(2P)	686	120	806	846	678	307	710	1090	280	80	M20×42	170	140	22	71	400	45	1078	36	M72	1940	26	545	740	680	800	8-24	6
D1C400L(4-12P)	686	120	806	846	678	307	710	1090	280	100	2-M16×30	210	180	28	90	400	45	1078	36	M72	1980	26	585	740	680	800	8-24	6



ELECTRIC MOTORS

BEARING SIZES AND REGREASING INFORMATION

Standard: "SEALED FOR LIFE" DOUBLE SHIELDED ZZ BEARINGS.
 MOTOR CLEARANCE OR C3 NOT REGREASABLE
 BEGREASABLE OPEN BEARINGS
 C3 WITHOUT AUTOMATIC GREASE RELIEF

IEC FRAME SIZE	BEARING DRIVE END (D.E.)	BEARING NON DRIVE END (N.D.E.)	REGREASING PERIOD HOURS FOR OPERATING TEMPERATURE UP TO 70°C			QUANTITY OF GREASE IN BEARING CHAMBER IF OPEN BEARINGS ARE FITTED GRAMS
			n<3600	n<1800	n<1200	
D1A63	6201ZZ C3	6201ZZ C3	30000	30000	30000	1.5
D1A71	6202ZZ C3	6202ZZ C3	30000	30000	30000	2
D1C80	6204ZZ C3	6204ZZ C3	30000	30000	30000	3.54
D1C90	6205ZZ C3	6205ZZ C3	28000	30000	30000	4
D1C100	6206ZZ C3	6206ZZ C3	25000	30000	30000	6
D1C112	6206ZZ C3	6206ZZ C3	20000	20000	30000	7
D1C132	6208ZZ C3	6208ZZ C3	15000	20000	30000	10.5
D1C160	6309 C3	6309 C3	6000	12000	18000	13
D1C180	6311 C3	6311 C3	4000	11000	16000	15
D1C200	6312 C3	6312 C3	3500	8500	13000	20
D1C200	NU312	6312 C3	1800	4250	6500	20
D1C225	6313 C3	6313 C3	3000	6000	9000	22
D1C225	NU313	6313 C3	1500	3000	4500	22
D1C250	6315 C3	6315 C3	2000	5000	9000	23
D1C250	NU315	6316 C3	1000	2500	4500	23
D1C280	6316 C3	6316 C3	1200	4000	6000	30
D1C280	NU316	6317 C3	600	2000	3500	30
D1C315 2P	6217 C4	6317 C4	1200	-	-	30
D1C315 2P	NU319	6319 C4	-	2000	3000	45
D1C355 2P	6217 C4	6317 C4	1200	-	-	30
D1C355 4P	NU324	6324 C4	-	1400	2200	60

NOTES:

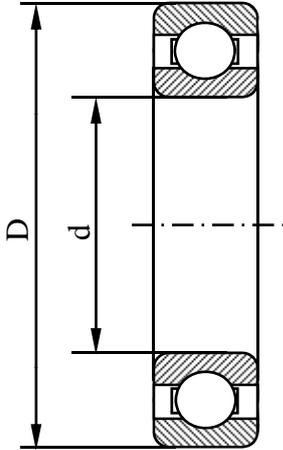
- 1 Recommended greases - Frames 71-132 SKF LGMT 2
 Frames 160 - 355 LS3 or Shell Alvania R3
- 2 Vertical motors should be greased at half the time specified above for horizontal motors.
- 3 It is recommended that "Sealed for life" bearings are replaced with new bearings when they are due for regreasing. It is possible to remove the shield from the out board side of these bearings, clean them out, and repack them with fresh grease, but it is not recommended. (The grease is retained between the inboard bearing shield and the oilseal in the endshield, as all motors are IP55 and fitted with an oilseal at both ends).
- 4 Regreasing time should be reduced if bearing operating temperature is in excess of 70°C.



ELECTRIC MOTORS

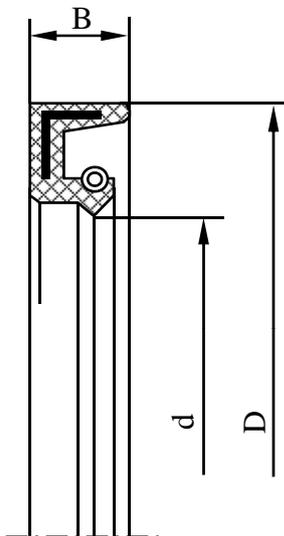
BEARING & OIL SEAL DATA

BEARING DATA



Frame	DE	NDE	d	D	B
63	6201 ZZ	6201 ZZ	12	32	10
71	6202 ZZ	6202 ZZ	15	35	11
80	6204 ZZ	6204 ZZ	20	47	14
90	6205 ZZ	6205 ZZ	25	52	15
100	6206 ZZ	6206 ZZ	30	62	16
112	6306 ZZ	6306 ZZ	30	72	19
132	6308 ZZ	6308 ZZ	40	90	23
160	6309 C3	6309 C3	45	100	25
180	6311 C3	6311 C3	55	120	29
200	6312 C3	6312 C3	60	130	31
225	6313 C3	6313 C3	65	140	33
250	6314 C3	6314 C3	70	150	35
280	6316 C3	6316 C3	80	170	39
315 2P(卧式)	6317 C4	6317 C3	85	180	41
315 2P(立式)	6317 C4	7317	85	180	41
315 4-10P(卧式)	NU319 C3	6319 C3	95	200	45
315 4-10P(立式)	NU319 C3	7319	95	200	45
355 2P(卧式)	6319 C4	6319 C3	95	200	45
355 2P(立式)	6319 C4	7319	95	200	45
355 4-10P(卧式)	NU322 C3	6322 C3	110	240	50
355 4-10P(立式)	NU322 C3	7322	110	240	50
400 2P	6319 C4	6319 C3	95	200	45
400 4-12P	NU326 C3	6326 C3	130	280	58

OIL SEAL DATA



Frame	DE			NED		
	d	D	B	d	D	B
63	12	24	5	12	24	5
71	15	30	5	15	30	5
80	20	35	5	20	35	5
90	25	40	5	25	40	5
100	30	52	7	30	52	7
112	30	52	7	30	52	7
132	40	62	8	40	62	8
160	45	65	8	45	65	8
180	55	75	8	55	75	8
200	60	80	8	60	80	8
225	65	90	10	65	90	10
250	70	95	10	70	95	10
280	80	100	10	80	100	10
315 2P	85	110	12	85	110	12
315 4-10P	115	140	12	115	140	12
355 2P	115	140	12	115	140	12
355 4-10P	130	160	12	130	160	12
400 2P	95	120	12	95	120	12
400 4-12P	130	160	12	130	160	12

DALMO reserves the right to make changes to the performance data and dimensions in this brochure without notice. This information is for reference only.