



电动机 ELECTRIC MOTORS 4A



BEVI[®]

Excellence in Electric Drives and Power Generation

Construction

Frame sizes 56-160 have stator house and end-shields in aluminum (Frame 160 flanges in cast iron), and top mounted terminal boxes. The motors are produced according to equal IEC-standard and are marked with CE.

All motors are painted as standard in RAL 5010, but other colors are available to order.

Aluminum motors with cast iron feet are being developed.

Voltage and Frequency

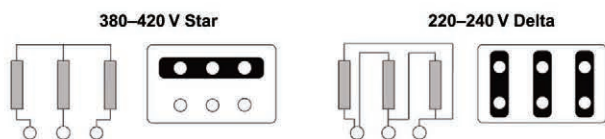
Motors are available for frequencies of 50 and 60 Hz, at all standard voltages, see motor plate for actual voltage. All motors are wide range wound. The voltage can vary by up to +/- 5%, without derating.

Maintenance

In normal use maintenance is limited to greasing of the bearings. 4A motors have closed bearing housings and sealed bearings, and can be considered maintenance free. For severe operating conditions special bearings can be supplied - for example, for high ambient temperature and increased speed.

Voltage

Three phase single speed motors can normally be connected for two different voltage ranges (connection in star – higher voltage, or delta – lower voltage) with a ratio of $\sqrt{3}$. This gives a wide application range and simplified management of ordering and stockholding.



The above connection diagrams are applicable to range wound motors for supplies of 220-240 V (Delta connection) and 380-420 V (Star connection).

Examples:

a) 220-240 V Delta/380-420 V Star – may be labelled 230/400 V (Standard for motors 3 kW and smaller). Suitable for direct on line starting on 380-420 V supplies.

b) 380-420V Delta/660-720V Star – may be labelled 400 V Delta (Standard for motors 4 kW and larger). Suitable for Star/Delta starting on 380-420 volt supplies or direct on line starting on 660-720 V supplies.

Frequency

Motors wound for 50 Hz supplies can also be used on 60 Hz. Rated data can be calculated from the table below.

Voltage at 50Hz	Voltage at 60Hz	60Hz data as % of 50Hz data			
		Power P	Torque M	Starting torque Mst	Speed n
230	230	100	83	69	120
230	255	111	92	85	120
400	400	100	83	69	120
400	440	110	92	84	120
400	460	115	96	92	120
400	480	120	100	100	120
525	525	100	83	69	120
525	575	115	96	92	120

Enclosure (degree of protection)

Motors are produced in degree of protection IP55 as standard, but are also available to other standards.

Insulation Class

All motors are wound with Class F material, but calculated with temperature rise according to class B.

Balancing

Motors are balanced with a half key. Special degrees of balancing are available on request.

Standards

Motor construction, outputs, and fixing dimensions comply with EN and IEC standards.

STANDARD
EN 60 034-1
IEC 60 072

Fuses and motor protection

Fuses do not provide adequate protection for a motor and additionally at least a starter with short circuit protection should be used.

Motor starters

Excessive motor temperature due to overloading or failure of one phase can be prevented by using a motor starter. The current at which the starter trips should be set in accordance with the motor nameplate data. In certain cases a standard starter will not give sufficient protection. This applies to applications with particularly severe duties e.g. starting of loads with high inertia, with the use of inverters, and use in environments with large changes in ambient temperature. In these cases, winding protection by thermal cut-outs or thermistors should be specified.

Thermal cut-outs

Thermal cut-outs (e.g. Klixon) can be fitted to the motor winding. When the fixed temperature is exceeded the cut-out will break an electric circuit e.g. to a contactor which will turn off the motor. The switching contact is a temperature sensitive bimetal spring.

Thermistors

Protection is provided by thermistors fitted in the frame 160 motor windings, together with a sensing relay. Thermistors are temperature sensitive resistors that at a certain temperature have a wide change of resistance. The sensing relay can, in turn, be used to e.g. cut off the supply to the main contactor coil.

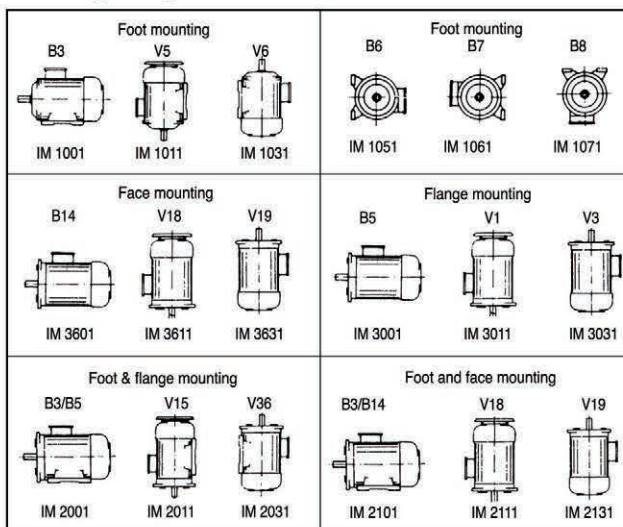
Cooling

As standard, the fan and cowl is fitted at the non-drive end (cooling form IC 411). Other cooling methods can be supplied e.g. separately driven cooling fan (often used with inverter drives).

Heaters

Motors used in conditions of wide temperature variation or extreme climatic conditions can be damaged by condensation and dampness in the windings. In motors fitted with heaters, the windings are heated to a few degrees above ambient, which is enough to prevent condensation. Heaters must not be energized when the motor is running. Smaller motors can be heated by supplying a low voltage via the motor leads, using a supply of 5-10% of the rated voltage between two phases. BEVI can fit heaters to all motor sizes.

Mounting arrangements



结构

机座号 56-160 电动机采用铸铝机壳和端盖 (160 机座法兰采用铸铁制造), 接线盒位于顶部, 按照 IEC 标准制造, 带 CE 标识。

电动机标准颜色为 RAL 5010, 但也可根据定单要求为其它颜色。

采用铸铁底脚的铝壳电动机正在开发中。

电压和频率

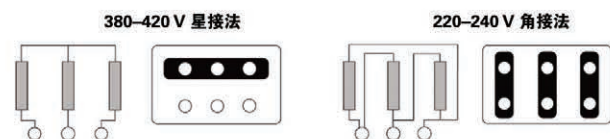
电动机采用宽电压设计, 可以在标准电压下以 50Hz 或 60Hz 运行, 请参考铭牌上的实际电压。在电压波动 $\pm 5\%$ 范围内不必降容运行。

维护保养

通常电动机的维护保养仅限于轴承的润滑, 4A 电动机采取密闭轴承室和密封轴承, 不需要进行维护。对于特殊的运行条件, 如高温环境或提速运行, 应采用特殊的轴承。

接线

三相单速电动机通常采用两种电压接线 (较高电压采用星接, 较低电压采用角接), 电压比例为 $\sqrt{3}$ 。这样电动机有较广的使用范围, 简化了定货和库存管理。



上面的接线图适用于 220-240 V (角接) 和 380-420 V (星接) 的电动机。

例如:

a) 220-240V 角接 / 380-420V 星接 - 可以标注为 230/400V (3 kW 及以下电动机), 适应于 380-420V 直接线起动。

b) 380-420V 角接 / 660-720V 星接 - 可以标注为 400V 角接 (4 kW 及以上电动机), 适应于 380-420V 星 / 角接和 660-720V 直接线起动。

频率

50Hz 的电动机也可以用于 60Hz, 其性能数据可以按下表计算。

50Hz 电压	60Hz 电压	60Hz/50Hz 的数据 %			
		功率 P	转矩 M	起动转矩 Mst	转速 n
230	230	100	83	69	120
230	255	111	92	85	120
400	400	100	83	69	120
400	440	110	92	84	120
400	460	115	96	92	120
400	480	120	100	100	120
525	525	100	83	69	120
525	575	115	96	92	120

防护等级

电动机标准防护等级为 IP55, 但也可以满足其它防护等级的要求。

绝缘等级

电动机采用 F 级绝缘材料制造, 温升按 B 级计算。

动平衡

电动机采用半键平衡, 也可满足特殊的动平衡精度。

标准

电动机结构、功率以及安装尺寸符合欧盟标准和国际电工委员会标准。

标准
EN 60 034-1
IEC 60 072

熔断器及电动机保护

熔断器不能为电动机提供足够的保护, 至少应另外使用一台具有短路保护功能的起动器。

电动机起动器

电动机起动器可用于防止过载或相故障引起的高温, 起动器的跳闸电流应根据电动机铭牌数据设置。有时标准的起动器不能提供有效的保护, 在一些特别恶劣的使用场所, 如高转动惯量负载起动、使用变频器以及环境温度变化较大的情况下, 应采用过热保护器或热敏电阻。

过热保护器

过热保护器 (如 Klixon) 可以安装在电动机绕组上, 当超过设置的温度时, 过热保护器将关闭用于断开电动机的接触器的电路。该交接点是一个对温度敏感的双金属弹片。

热敏电阻

机座号 160 电动机绕组内埋置热敏电阻, 和传感继电器一起进行保护。热敏电阻是对温度敏感的电阻器, 在某一温度下电阻变化很大, 传感继电器可以依次用来切断到主线圈的电源。

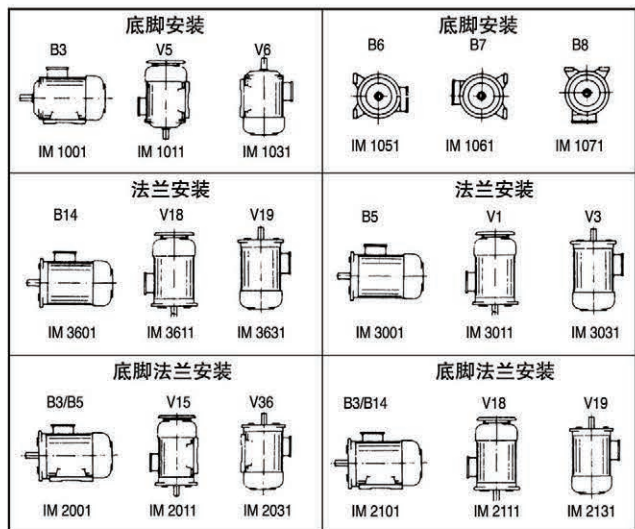
冷却

电动机标准配置为非驱动端带风扇和风扇罩 (冷却方式 IC 411)。也可提供其它冷却方式, 如单独的冷却风机 (通常用于变频器驱动)。

加热器

用于温度变化范围较大或恶劣气候条件的电动机, 其绕组可能会遭受冷凝或潮湿的破坏。电动机安装加热器, 可以将绕组加热到高于环境温度, 从而避免产生冷凝。电动机运行时, 加热器不能通电。较小电动机可用额定电压的 5-10% 对两根引线通电加热。BEVI 可对所有电动机配备加热器。

安装方式



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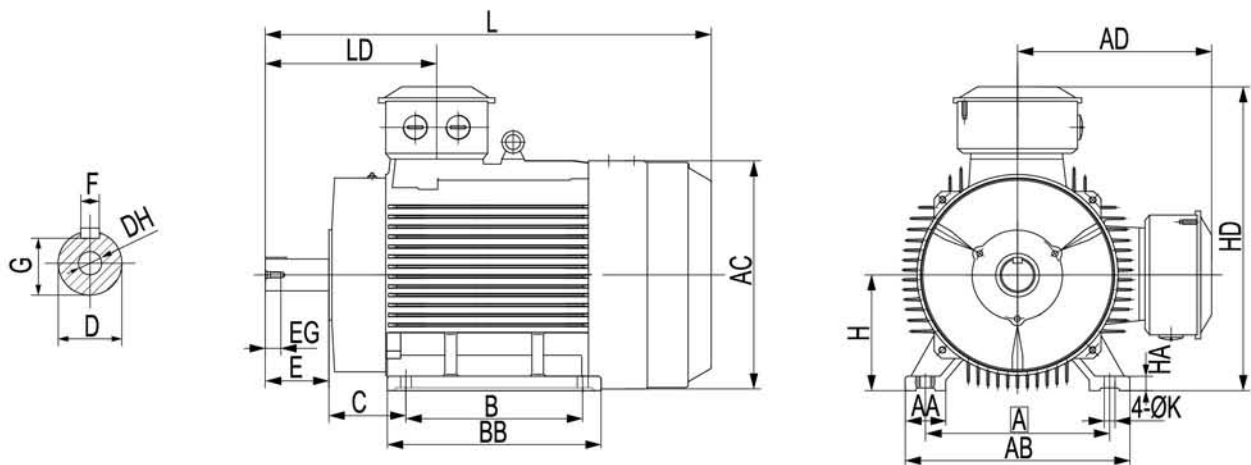
TECHNICAL DATA 性能数据

Number of poles 2 3000 r/m	功率 kW 50Hz	满载转速 rpm 50Hz	满载电流 (A) 50Hz			功率 kW 60Hz	满载转速 rpm 60Hz	满载电流 (A)		效率	功率 因数 cos φ	起动电流 倍数 Ia/I _N	起动转矩 倍数 Ma/M _N	最大转矩 倍数 Mmax/M _N	转动惯量 inertia kgm ²	重量 (B3) kg
	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A)		Efficiency	Power factor cos φ	Starting current ratio Ia/I _N	Starting torque ratio Ma/M _N	Pull out torque ratio Mmax/M _N	Moment of inertia kgm ²	Mass (B3) kg
			220-240V 230V	380-420V 400V	525V			440-480V 460V 60Hz	460V 60Hz	%						
4A 56 1-2	0.09	2720	0.47	0.27	0.21	0.1	3264		0.28	62.0	0.77	5.2	2.2	2.1	0.0001	3.6
4A 56 2-2	0.12	2720	0.61	0.35	0.27	0.14	3264		0.37	64.0	0.78	5.2	2.2	2.1	0.0002	3.9
4A 63 M1-2	0.18	2720	0.87	0.50	0.38	0.21	3264		0.52	65.0	0.80	5.5	2.3	2.3	0.0003	4.8
4A 63 M2-2	0.25	2720	1.13	0.65	0.50	0.3	3264		0.68	68.0	0.81	5.5	2.3	2.3	0.0006	5.1
4A 71 M1-2	0.37	2755	1.66	0.96	0.73	0.44	3306		1.00	69.0	0.81	6.1	2.2	2.3	0.0007	6
4A 71 M2-2	0.55	2790	2.25	1.30	0.99	0.66	3348		1.36	74.0	0.82	6.1	2.3	2.3	0.0009	6.5
4A 80 M1-2	0.75	2845	2.89	1.67	1.27	0.9	3414		1.74	75.0	0.83	6.1	2.3	2.2	0.0012	8.7
4A 80 M2-2	1.1	2835	4.05	2.34	1.78	1.32	3402		2.44	76.2	0.84	6.9	2.3	2.2	0.0014	9.5
4A 90 S-2	1.5	2850	5.70	3.29	2.51	1.8	3420		3.43	78.5	0.84	7.0	2.3	2.2	0.0029	12
4A 90 L-2	2.2	2855	7.97	4.60	3.50	2.64	3426		4.80	81.0	0.85	7.0	2.3	2.2	0.0055	13.5
4A 100 L-2	3	2860	10.43	6.02	4.59	3.6	3432		6.28	82.6	0.87	7.5	2.3	2.2	0.0109	21
4A 112 M1-2	4	2880	13.51	7.80	5.94	4.8	3456		8.14	84.2	0.88	7.5	2.3	2.2	0.0126	28
4A 112 M2-2	5.5	2900	18.19	10.50	8.00	6.6	3480		10.96	85.7	0.88	7.5	2.3	2.2	0.0377	32
4A 132 S1-2	5.5	2900	18.19	10.50	8.00	6.6	3480		10.96	85.7	0.88	7.5	2.3	2.2	0.0377	39
4A 132 S2-2	7.5	2900	24.51	14.15	10.78	9	3480		14.77	87.0	0.88	7.5	2.3	2.2	0.0499	45
4A 132 M-2	11	2930	34.99	20.20	15.39	13.2	3516		21.08	88.0	0.89	7.5	2.3	2.2	0.0550	58
4A 160 M1-2	11	2930	34.99	20.20	15.39	13.2	3516		21.08	88.0	0.89	7.5	2.3	2.2	0.0550	69
4A 160 M2-2	15	2930	47.46	27.40	20.88	18	3516		28.59	89.0	0.89	7.5	2.3	2.2	0.0750	78
4A 160 L-2	18.5	2930	57.10	32.97	25.12	22.2	3516		34.40	90.0	0.90	7.5	2.3	2.2	0.1240	89

Number of poles 4 1500 r/m	功率 kW 50Hz	满载转速 rpm 50Hz	满载电流 (A) 50Hz				功率 kW 60Hz	满载转速 rpm 60Hz	满载电流 (A)		效率	功率 因数 cos φ	起动电流 倍数 Ia/I _N	起动转矩 倍数 Ma/M _N	最大转矩 倍数 Mmax/M _N	转动惯量 inertia kgm ²	重量 (B3) kg
	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz				Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A)		Efficiency %	Power factor cos φ	Starting current ratio Ia/I _N	Starting torque ratio Ma/M _N	Pull out torque ratio Mmax/M _N	Moment of inertia kgm ²	Mass (B3) kg
			220-240V 230V	380-420V 400V	525V			440-480V 460V 60Hz	460V 60Hz								
4A 56 1-4	0.06	1310	0.38	0.22	0.17	0.07	1572	0.23	56.0	0.70	4.0	2.1	2.0	0.0003	3.6		
4A 56 2-4	0.09	1310	0.54	0.31	0.24	0.1	1572	0.32	58.0	0.72	4.0	2.1	2.0	0.0004	3.9		
4A 63 M1-4	0.12	1310	0.73	0.42	0.32	0.14	1572	0.44	57.0	0.72	4.4	2.2	2.1	0.0005	4.8		
4A 63 M2-4	0.18	1310	1.02	0.59	0.45	0.21	1572	0.62	60.0	0.73	4.4	2.2	2.1	0.0006	5		
4A 71 M1-4	0.25	1345	1.30	0.75	0.57	0.3	1614	0.78	65.0	0.74	5.2	2.2	2.1	0.0008	6		
4A 71 M2-4	0.37	1340	1.91	1.10	0.84	0.44	1608	1.15	67.0	0.75	5.2	2.2	2.1	0.0013	6.3		
4A 80 M1-4	0.55	1390	2.49	1.44	1.10	0.66	1668	1.50	71.0	0.75	5.2	2.3	2.4	0.0018	9.4		
4A 80 M2-4	0.75	1380	3.20	1.85	1.41	0.9	1656	1.93	73.0	0.76	6.0	2.3	2.3	0.0021	11		
4A 90 S-4	1.1	1390	4.68	2.70	2.06	1.32	1668	2.82	76.2	0.77	6.0	2.3	2.3	0.0023	12		
4A 90 L-4	1.5	1400	6.11	3.53	2.69	1.8	1680	3.68	78.5	0.78	6.0	2.3	2.3	0.0027	14		
4A 100 L1-4	2.2	1420	8.37	4.83	3.68	2.64	1704	5.04	81.0	0.81	7.0	2.3	2.3	0.0054	21		
4A 100 L2-4	3	1410	11.08	6.40	4.88	3.6	1692	6.68	82.6	0.82	7.0	2.3	2.3	0.0067	24		
4A 112 M 1-4	4	1435	14.48	8.36	6.37	4.8	1722	8.72	84.2	0.82	7.0	2.3	2.3	0.0095	29		
4A 112 M 2-4	5.5	1440	19.26	11.12	8.47	6.6	1728	11.60	85.7	0.83	7.0	2.3	2.3	0.0214	32		
4A 132 S-4	5.5	1440	19.26	11.12	8.47	6.6	1728	11.60	85.7	0.83	7.0	2.3	2.3	0.0214	41		
4A 132 M1-4	7.5	1450	25.63	14.80	11.28	9	1740	15.44	87.0	0.84	7.0	2.3	2.3	0.0296	48		
4A 132 M2-4	11	1460	36.72	21.20	16.15	13.2	1752	22.12	88.0	0.85	7.0	2.3	2.3	0.0747	64		
4A 160 M-4	11	1460	36.72	21.20	16.15	13.2	1752	22.12	88.0	0.85	7.0	2.3	2.3	0.0747	73		
4A 160 L-4	15	1460	49.54	28.60	21.79	18	1752	29.84	89.0	0.85	7.0	2.3	2.3	0.0918	86		

Number of poles 6 1000 r/m	功率 kW 50Hz	满载转速 rpm 50Hz	满载电流 (A) 50Hz			功率 kW 60Hz	满载转速 rpm 60Hz	满载电流 (A)		效率	功率 因数 cos φ	起动电流 倍数 Ia/I _N	起动转矩 倍数 Ma/M _N	最大转矩 倍数 Mmax/M _N	转动惯量 inertia kgm ²	重量 (B3) kg
	Power kW 50Hz	Full load speed rpm 50Hz	Full load speed rpm 220-240V 230V	current (A) 380-420V 400V	50Hz 525V	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Efficiency %	Power factor cos φ	Starting current ratio Ia/I _N	Starting torque ratio Ma/M _N	Pull out torque ratio Mmax/M _N	Moment of inertia kgm ²	Mass (B3) kg	
4A 63 1-6	0.09	840	0.85	0.49	0.37	0.1	1008	0.51	44.0	0.60	3.5	1.8	1.9	0.0002	4.8	
4A 63 2-6	0.12	850	1.04	0.60	0.46	0.14	1020	0.63	48.0	0.60	3.5	1.8	1.9	0.0004	5	
4A 71 1-6	0.18	870	1.21	0.70	0.53	0.21	1044	0.73	56.0	0.66	4.0	2.0	1.9	0.0011	6	
4A 71 2-6	0.25	870	1.56	0.90	0.69	0.3	1044	0.94	59.0	0.68	4.0	2.0	1.9	0.0014	6.5	
4A 80 1-6	0.37	880	2.03	1.17	0.89	0.44	1056	1.22	62.0	0.70	4.7	2.0	1.9	0.0016	9	
4A 80 2-6	0.55	880	2.77	1.60	1.22	0.66	1056	1.67	65.0	0.72	4.7	2.1	1.9	0.0019	10.5	
4A 90 S-6	0.75	905	3.78	2.18	1.66	0.9	1086	2.27	69.0	0.72	5.3	2.1	2.0	0.0029	12	
4A 90 L-6	1.1	905	5.23	3.02	2.30	1.32	1086	3.15	72.0	0.73	5.5	2.1	2.0	0.0035	14	
4A 100 L-6	1.5	920	6.58	3.80	2.90	1.8	1104	3.97	76.0	0.76	5.5	2.1	2.0	0.0069	23	
4A 112 M-6	2.2	935	9.21	5.32	4.05	2.64	1122	5.55	79.0	0.76	6.5	2.1	2.0	0.0140	28	
4A 132 S-6	3	960	12.18	7.03	5.36	3.6	1152	7.34	81.0	0.76	6.5	2.1	2.1	0.0286	40	
4A 132 M1-6	4	960	15.64	9.03	6.88	4.8	1152	9.42	82.0	0.76	6.5	2.1	2.1	0.0357	43	
4A 132 M2-6	5.5	960	20.73	11.97	9.12	6.6	1152	12.49	84.0	0.77	6.5	2.1	2.1	0.0449	47	
4A 160 M-6	7.5	970	27.89	16.10	12.27	9	1164	16.80	86.0	0.78	6.5	2.1	2.0	0.0810	71	
4A 160 L-6	11	970	39.82	22.99	17.52	13.2	1164	23.99	87.5	0.79	6.5	2.1	2.0	0.1160	85	

Number of poles 8 750 r/m	功率 kW 50Hz	满载转速 rpm 50Hz	满载电流 (A) 50Hz			功率 kW 60Hz	满载转速 rpm 60Hz	满载电流 (A)		效率	功率 因数 cos φ	起动电流 倍数 Ia/I _N	起动转矩 倍数 Ma/M _N	最大转矩 倍数 Mmax/M _N	转动惯量 inertia kgm ²	重量 (B3) kg
	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A)		Efficiency	Power factor cos φ	Starting current ratio Ia/I _N	Starting torque ratio Ma/M _N	Pull out torque ratio Mmax/M _N	Moment of inertia kgm ²	Mass (B3) kg
			220-240V 230V	380-420V 400V	525V			440-480V 460V 60Hz								
4A 71 1-8	0.09	600	0.99	0.57	0.43	0.1	720	0.59		40.0	0.57	2.8	1.8	1.9	0.0008	6
4A 71 2-8	0.12	600	1.21	0.70	0.53	0.14	720	0.73		45.0	0.57	2.8	1.8	1.9	0.0010	6.3
4A 80 M1-8	0.18	645	1.37	0.79	0.60	0.21	774	0.82		51.0	0.61	3.3	1.9	1.8	0.0025	9
4A 80 M2-8	0.25	645	1.82	1.05	0.80	0.3	774	1.10		54.0	0.61	3.3	1.9	1.8	0.0030	10.5
4A 90 S-8	0.37	675	2.42	1.40	1.07	0.44	810	1.46		62.0	0.61	4.0	1.9	1.8	0.0051	12
4A 90 L-8	0.55	680	3.57	2.06	1.57	0.66	816	2.15		63.0	0.61	4.0	2.0	1.8	0.0065	14
4A 100 L1-8	0.75	680	3.98	2.30	1.75	0.9	816	2.40		70.0	0.67	4.0	2.0	1.8	0.0095	23
4A 100 L2-8	1.1	680	5.54	3.20	2.44	1.32	816	3.34		72.0	0.69	5.0	2.0	1.8	0.0110	25
4A 112 M-8	1.5	690	7.31	4.22	3.22	1.8	828	4.40		74.0	0.70	5.0	2.0	1.8	0.0245	28
4A 132 S-8	2.2	710	9.87	5.70	4.34	2.64	852	5.95		79.0	0.71	6.0	2.0	1.8	0.0314	40
4A 132 M-8	3	710	12.82	7.40	5.64	3.6	852	7.72		80.0	0.73	6.0	2.0	1.8	0.0395	45
4A 160 M1-8	4	720	16.94	9.78	7.45	4.8	864	10.21		81.0	0.73	6.0	2.0	1.9	0.0753	69
4A 160 M2-8	5.5	720	22.34	12.90	9.83	6.6	864	13.46		83.0	0.74	6.5	2.0	2.0	0.0931	76
4A 160 L-8	7.5	720	29.27	16.90	12.88	9	864	17.63		85.5	0.75	6.0	2.0	2.0	0.1260	86

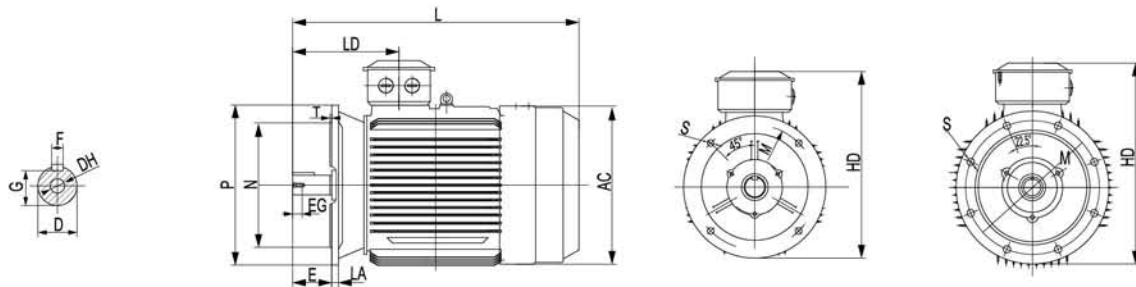


B3

Frame Size	Poles	A	B	C	D	E	F	G	DH	H	K	AB	AC	AD	HA	HD	LD	L
56	2,4	90	71	36	9	20	3	7.2	M4	56	5.8	111	110	100	8	156	82	195
63	2,4	100	80	40	11	23	4	8.5	M4	63	7	137	123	111	9	174	83	225
71	2,4,6	112	90	45	14	30	5	11	M5	71	7	138	138	129	8	200	100	245
80M	2,4,6,8	125	100	50	19	40	6	15.5	M6	80	10	158	155	135	9	215	110	293
90S	2,4,6,8	140	100	56	24	50	8	20	M8	90	10	174	175	145	10	235	135	312
90L	2,4,6,8	140	125	56	24	50	8	20	M8	90	10	174	175	145	10	235	135	340
100L	2,4,6,8	160	140	63	28	60	8	24	M10	100	12	197	195	160	11	260	143	380
112M	2,4,6,8	190	140	70	28	60	8	24	M10	112	12	227	215	178	13	290	150	400
132S	2,4,6,8	216	140	89	38	80	10	33	M12	132	12	260	258	202	17	334	190	460
132M	2,4,6,8	216	178	89	38	80	10	33	M12	132	12	260	258	202	17	334	190	500
160M	2,4,6,8	254	210	108	42	110	12	37	M16	160	15	312	313	255	18	415	230	615
160L	2,4,6,8	254	254	108	42	110	12	37	M16	160	15	312	313	255	18	415	230	660

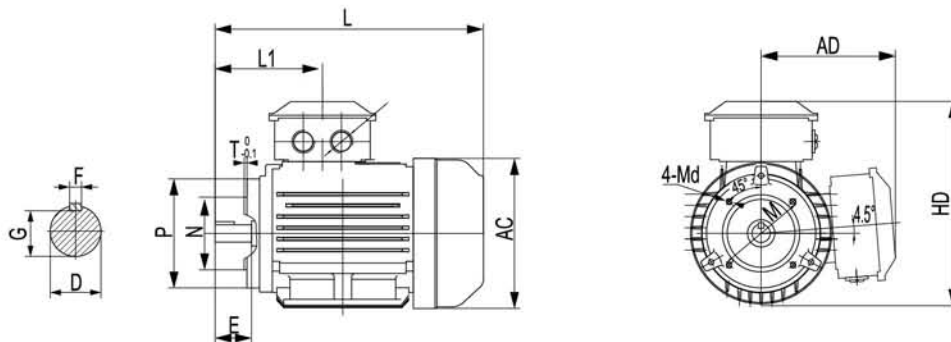


Excellence in Electric Drives and Power Generation



B5

Frame Size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	LA	LD	L
56	2,4	9	20	3	7.2	M4	56	100	80	120	7	3	110	8	82	195
63	2,4	11	23	4	8.5	M4	63	115	95	140	10	3	123	9	83	225
71	2,4,6	14	30	5	11	M5	71	130	110	160	10	3.5	138	10	100	245
80M	2,4,6,8	19	40	6	15.5	M6	80	165	130	200	12	3.5	155	13	110	293
90S	2,4,6,8	24	50	8	20	M8	90	165	130	200	12	3.5	175	13	135	312
90L	2,4,6,8	24	50	8	20	M8	90	165	130	200	12	3.5	175	13	135	340
100L	2,4,6,8	28	60	8	24	M10	100	215	180	250	15	4	195	13	143	380
112M	2,4,6,8	28	60	8	24	M10	112	215	180	250	15	4	215	15	150	400
132S	2,4,6,8	38	80	10	33	M12	132	265	230	300	15	4	258	15	190	460
132M	2,4,6,8	38	80	10	33	M12	132	265	230	300	15	4	258	15	190	500
160M	2,4,6,8	42	110	12	37	M16	160	300	250	350	19	5	313	13	230	615
160L	2,4,6,8	42	110	12	37	M16	160	300	250	350	19	5	313	13	230	660



B14

Frame Size	Poles	AC	AD	D	DH	E	F	G	H	L
56	2,4	110	100	9	M4	20	3	7.2	56	195
63	2,4	123	111	11	M4	23	4	8.5	63	225
71	2,4,6	138	129	14	M5	30	5	11	71	245
80M	2,4,6,8	155	135	19	M6	40	6	15.5	80	293
90S	2,4,6,8	175	145	24	M8	50	8	20	90	312
90L	2,4,6,8	175	145	24	M8	50	8	20	90	340
100L	2,4,6,8	195	160	28	M10	60	8	24	100	380
112M	2,4,6,8	215	178	28	M10	60	8	24	112	400
132S	2,4,6,8	258	202	38	M12	80	10	33	132	460
132M	2,4,6,8	258	202	38	M12	80	10	33	132	500
160M	2,4,6,8	313	255	42	M16	110	12	37	160	615
160L	2,4,6,8	313	255	42	M16	110	12	37	160	660

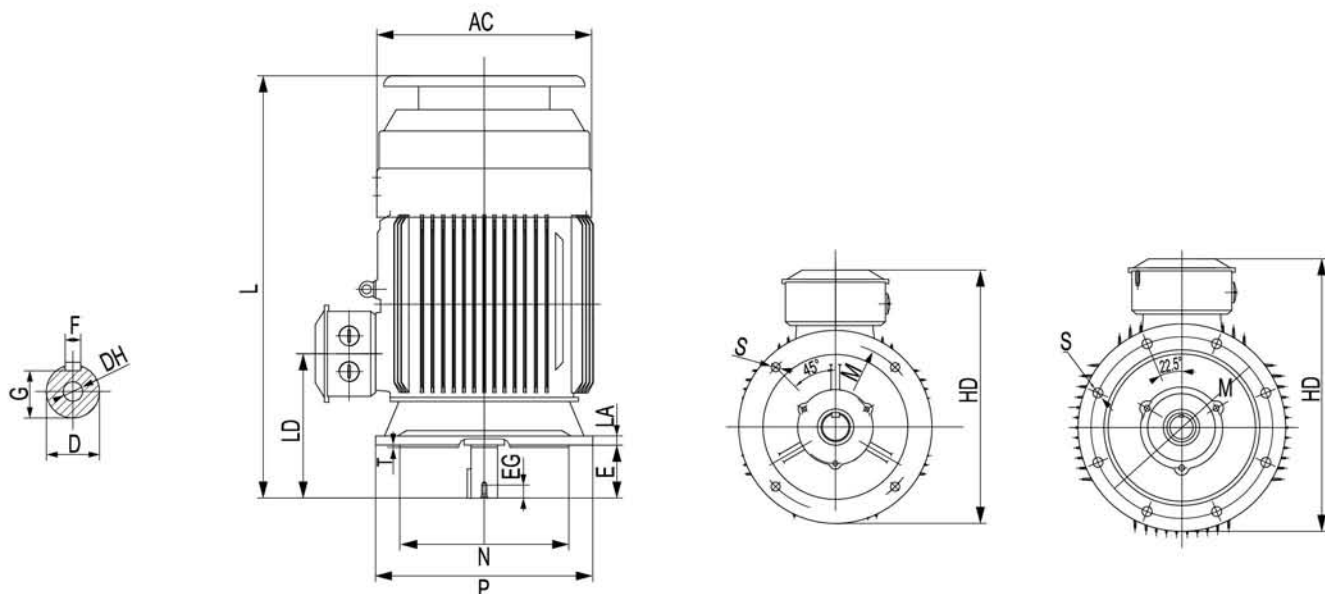
B14A

M	N	P	S	T
65	50	80	M5	2.5
75	60	90	M5	2.5
85	70	105	M6	2.5
100	80	120	M6	3
115	95	140	M8	3
130	110	160	M8	3.5
130	110	160	M8	3.5
130	110	160	M8	3.5
165	130	200	M10	3.5
165	130	200	M10	3.5
215	180	250	M12	4
215	180	250	M12	4

B14B

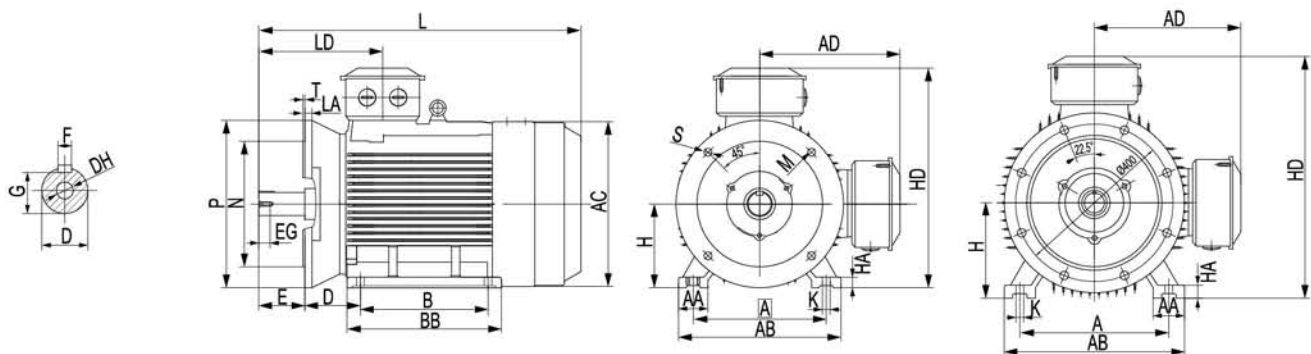
M	N	P	S	T
85	70	105	M6	2.5
100	80	120	M6	2.5
115	95	140	M8	3
130	110	160	M8	3.5
130	110	160	M8	3.5
130	110	160	M8	3.5
165	130	200	M10	3.5
165	130	200	M10	3.5
215	180	250	M12	4
215	180	250	M12	4
265	230	300	M16	5
265	230	300	M16	5

Warning: BEVI The data in this catalogue may change without prior notice.
 注意: BEVI保留在不事先通知的情况下更改样本数据的权利。



V1

Frame Size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	AD	LA	LD	L
56	2,4	9	20	3	7.2	M4	56	100	80	120	7	3	110	100	8	82	240
63	2,4	11	23	4	8.5	M4	63	115	95	140	10	3	123	111	9	83	270
71	2,4,6	14	30	5	11	M5	71	130	110	160	10	3.5	138	129	10	100	290
80M	2,4,6,8	19	40	6	15.5	M6	80	165	130	200	12	3.5	155	135	13	110	338
90S	2,4,6,8	24	50	8	20	M8	90	165	130	200	12	3.5	175	145	13	135	357
90L	2,4,6,8	24	50	8	20	M8	90	165	130	200	12	3.5	175	145	13	135	385
100L	2,4,6,8	28	60	8	24	M10	100	215	180	250	15	4	195	160	13	143	425
112M	2,4,6,8	28	60	8	24	M10	112	215	180	250	15	4	215	178	15	150	445
132S	2,4,6,8	38	80	10	33	M12	132	265	230	300	15	4	258	202	15	190	505
132M	2,4,6,8	38	80	10	33	M12	132	265	230	300	15	4	258	202	15	190	545
160M	2,4,6,8	42	110	12	37	M16	160	300	250	350	19	5	313	255	13	230	665
160L	2,4,6,8	42	110	12	37	M16	160	300	250	350	19	5	313	255	13	230	715

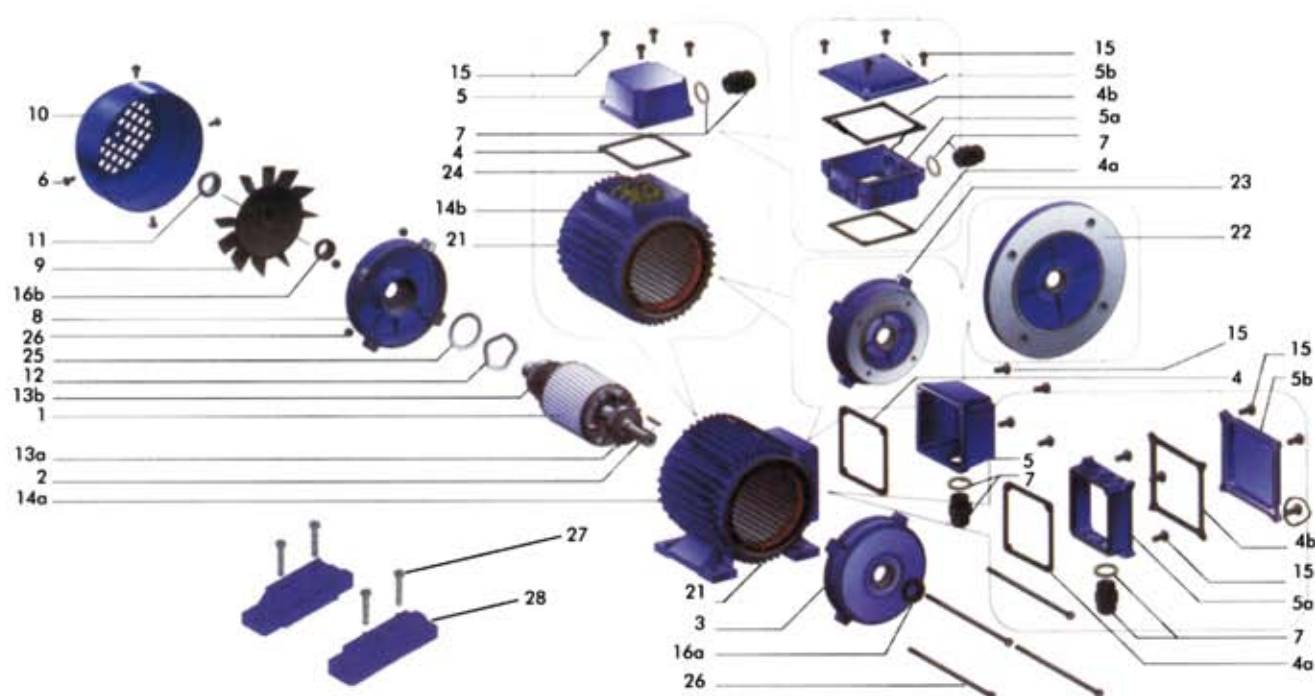


B35

Frame Size	Poles	A	B	C	D	E	F	G	DH	H	K	M	N	P	S	T	AB	AC	AD	HA	HD	LA	LD	L
56	2,4	90	71	36	9	20	3	7.2	M4	56	5.8	100	80	120	7	3	111	110	100	8	156	8	82	195
63	2,4	100	80	40	11	23	4	8.5	M4	63	7	115	95	140	10	3	137	123	111	9	174	9	83	225
71	2,4,6	112	90	45	14	30	5	11	M5	71	7	130	110	160	10	3.5	138	138	129	8	200	10	100	245
80M	2,4,6,8	125	100	50	19	40	6	15.5	M6	80	10	165	130	200	12	3.5	158	155	135	9	215	13	110	293
90S	2,4,6,8	140	100	56	24	50	8	20	M8	90	10	165	130	200	12	3.5	174	175	145	10	235	13	135	312
90L	2,4,6,8	140	125	56	24	50	8	20	M8	90	10	165	130	200	12	3.5	174	175	145	10	235	13	135	340
100L	2,4,6,8	160	140	63	28	60	8	24	M10	100	12	215	180	250	15	4	197	195	160	11	260	13	143	380
112M	2,4,6,8	190	140	70	28	60	8	24	M10	112	12	215	180	250	15	4	227	215	178	13	290	15	150	400
132S	2,4,6,8	216	140	89	38	80	10	33	M12	132	12	265	230	300	15	4	260	258	202	17	334	15	190	460
132M	2,4,6,8	216	178	89	38	80	10	33	M12	132	12	265	230	300	15	4	260	258	202	17	334	15	190	500
160M	2,4,6,8	254	210	108	42	110	12	37	M16	160	15	300	250	350	19	5	312	313	255	18	415	13	230	615
160L	2,4,6,8	254	254	108	42	110	12	37	M16	160	15	300	250	350	19	5	312	313	255	18	415	13	230	660



Excellence in Electric Drives and Power Generation



1	带轴的转子	1	Rotor with shaft
2	键	2	Key
3	前端盖	3	Front shield
4	接线盒密封 IP55	4	Terminal box seal IP55
4a	接线盒密封 IP65	4a	Terminal box seal IP65
4b	接线盒密封 IP65	4b	Terminal box seal IP65
5	端子排盖 IP55 (非标准型)	5	Terminal strip cover IP55 (not standard)
5a	端子排盖 IP55 (标准型)	5a	Terminal strip cover IP55 (standard)
5b	端子排盖 IP55 (标准型)	5b	Terminal strip cover IP55 (standard)
6	风扇罩固定螺钉	6	Screws for fan cover fixing
7	电缆引入及密封	7	Cable inlet and seal
8	后盖	8	Rear shield
9	风扇	9	Cooling fan
10	风扇罩	10	Fan cover
11	风扇卡簧	11	Fan clamp
12	波形垫片	12	Wavy steel washer for compensation

13a	前端轴承	13a	Front bearing
13b	后端轴承	13b	Rear bearing
14a	机座 B3	14a	Frame B3
14b	机座 B5	14b	Frame B5
15	接线盒固定螺钉	15	Screws for terminal box fixing
16a	前密封圈	16a	Front seal ring
16b	后密封圈	16b	Rear seal ring
21	定子	21	Wound stator
22	B5法兰	22	Flange B5
23	B14法兰	23	Flange B14
24	接线板	24	Terminal board complete with metal parts
25	隔离垫圈	25	Spacer ring
26	拉杆及螺母	26	Tie-rods and nuts
27	底座螺栓	27	Screws for feet fixing (when available)
28	电机底座	28	Motor feet

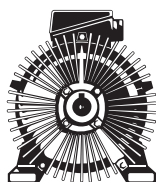
机座号 Frame Size	极数 Poles	轴承牌号 Bearing Size		出线口格兰 Cable Gland
		轴伸端 DE	非轴伸端 NDE	
56	2,4	6201-2Z/C3	6201-2Z/C3	1×M20×1.5
63	2,4	6201-2Z/C3	6201-2Z/C3	1×M20×1.5
71	2,4,6	6202-2Z/C3	6202-2Z/C3	1×M20×1.5
80M	2,4,6,8	6204-2Z/C3	6204-2Z/C3	1×M20×1.5
90S	2,4,6,8	6205-2Z/C3	6205-2Z/C3	1×M20×1.5
90L	2,4,6,8	6205-2Z/C3	6205-2Z/C3	1×M20×1.5
100L	2,4,6,8	6206-2Z/C3	6206-2Z/C3	1×M20×1.5
112M	2,4,6,8	6306-2Z/C3	6306-2Z/C3	2×M25×1.5
132S	2,4,6,8	6308-2Z/C3	6308-2Z/C3	2×M25×1.5
132M	2,4,6,8	6308-2Z/C3	6308-2Z/C3	2×M25×1.5
160M	2,4,6,8	6309-2ZC3	6309-2ZC3	2×M40×1.5
160L	2,4,6,8	6309-2ZC3	6309-2ZC3	2×M40×1.5

Note: Please refer to the nameplate data when replacing bearing.

注意：更换轴承时请参考铭牌上的轴承牌号。

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