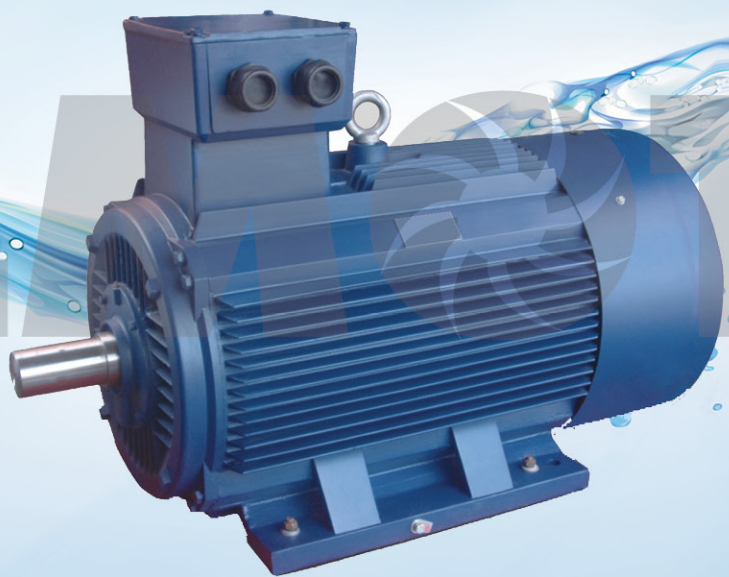




Three-phase Low Voltage Squirrel Cage Motors



V-SERIES

Totally Enclosed Fan-cooled with IP 55 Enclosure

AEV CAST IRON (63-355L)

AAEV ALUMINIUM (56 -160L)

Class F Insulation with Class B Temperature Rise Comply
with CEMEP/EC EFF2 Efficiency IEC Dimension.

www.el-moto.com

AEV CAST IRON SERIES THREE-PHASE INDUCTION MOTORS

GENERAL DESCRIPTION

AEV series motors are totally enclosed fan cooled cast Iron three-phase squirrel cage induction motor.

The feature of V series motors is high efficiency and starting torque. The rated output and the mounting dimensions are fully conformed to the standard IEC and DIN 42673. The motors are suitable for driving various kinds of machines and equipments without special requirements.

Specifications & Features

Rated voltage: 380V/660V or on request.

Rated frequency: 50Hz or 60Hz.

Connection: Star-connection for 3KW or less, delta-connection for 4KW or more.

Duty/Rating: Continuous (S1).

Insulation class: F

Protection class: The main body of the motor is IP54, terminal box is IP55

Cooling method: IC411 (cooled by SELF-FAN)

Ambient temperature: -15°C ~ 40°C

Altitude: not exceeding 1000meters above sea level.

Relative humidity: less than 90%

CODE STATEMENT

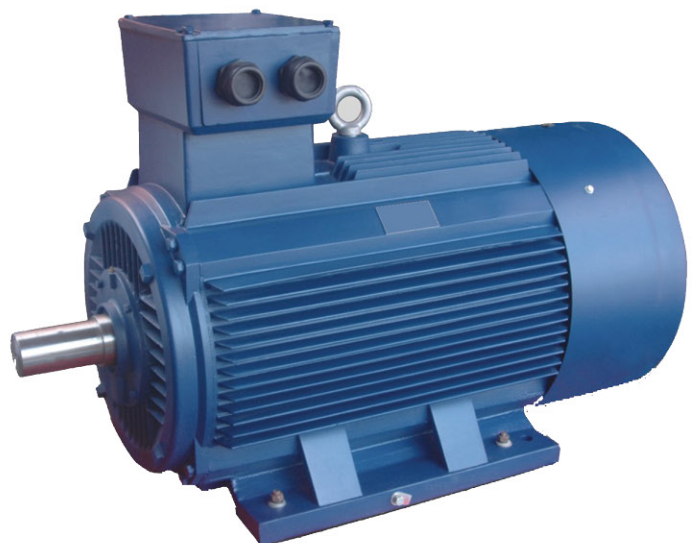
Protection Class

IP - 5 - 5

Splash proof

Dust proof

International protection symbol



Performance Data

2 Poles 50 Hz , Synchronous Speed 3000 rpm, Class F Insulation, S1 (MCR) Duty, Efficiency Class EFF2

Output		Full Load Speed (RPM)	Frame Size	% Efficiency			% Power Factor			Full-load Current					Torque			Rotor GD² (Kg·m²)	Cast Iron frame motor Wt (Kg)	A1 frame motor Wt (Kg)
KW	(HP)			Full Load	75% Load	50% Load	Full Load	75% Load	50% Load	380V (A)	400V (A)	415V (A)	LRC FLC (%)		FLT Kg-m	LRT (%)	BDT (%)			
0.18	0.25	2730	63M	65	66	63	80	71	56.5	0.53	0.5	0.48	550	0.064	220	220	0.001	---	4.5	
0.25	0.33	2730	63M	68	69	66.5	81	72	57	0.69	0.66	0.63	550	0.089	220	220	0.001	---	4.9	
0.37	0.5	2750	71M	70	71	68.5	81	72.5	57	0.99	0.94	0.91	610	0.131	220	220	0.001	---	5.5	
0.55	0.75	2790	71M	73	74	72.5	83	75.5	61	1.38	1.31	1.26	610	0.192	220	230	0.002	---	7	
0.75	1	2845	80M	75	75.5	73.5	83	76	62.5	1.83	1.74	1.68	610	0.257	220	230	0.003	15	9	
1.1	1.5	2845	80M	77	78	77	84	77.5	65	2.58	2.46	2.37	700	0.376	220	230	0.004	16	10	
1.5	2	2840	90S	79	80	79	84	79	67.5	3.43	3.27	3.15	700	0.514	220	230	0.006	22	13	
2.2	3	2840	90L	81	82.5	82	85	80.5	70.5	4.85	4.62	4.45	700	0.754	220	230	0.008	25	16	
3	4	2830	100L	83	84	83	87	83.5	74	6.31	6	5.79	750	1.031	220	230	0.013	33	20	
4	5.5	2880	112M	84.2	85	84.5	88	85	77.5	8.2	7.8	7.52	750	1.351	220	230	0.024	40	26	
5.5	7.5	2915	132S	86	86	85	88	84.5	76.5	11	10.5	10.1	750	1.836	220	230	0.047	59	39	
7.5	10	2905	132S	87	87.5	87	88	85.5	79	14.9	14.2	13.6	750	2.512	220	230	0.054	62	42	
11	15	2935	160M	88.8	88	86.5	90.5	88	81	20.8	19.8	19	750	3.647	220	260	0.167	107	---	
15	20	2935	160M	89.8	89.5	88.5	91	89	83	27.9	26.5	25.5	750	4.973	220	260	0.204	117	---	
18.5	25	2935	160L	91.1	90.5	89.5	92	90.5	85	33.5	31.9	30.7	750	6.133	220	270	0.255	134	---	
22	30	2950	180M	90.6	90	88.5	92	90	84.5	40.1	38.1	36.7	750	7.256	200	260	0.348	169	---	
30	40	2950	200L	91.4	90.5	89.5	91.5	90	85	54.5	51.8	49.9	750	9.895	200	230	0.558	220	---	
37	50	2950	200L	92.1	91.5	90.5	92	91	86.5	66.3	63	60.8	750	12.2	200	240	0.680	239	---	
45	60	2960	225M	92.7	92	91	91.5	90	85	80.6	76.6	73.8	750	14.79	200	240	0.977	297	---	
55	75	2970	250M	93	92.5	91	91	89	84	98.7	93.8	90.4	750	18.02	200	240	1.397	380	---	
75	100	2975	280S	93.6	92.5	91	92	91	86.5	132	126	121	750	24.53	200	240	2.268	510	---	
90	125	2975	280M	94.1	93	92	92.5	92	88	157	149	144	750	29.44	200	240	2.636	540	---	
110	150	2980	315S	94.4	93	91	92	91	87	192	183	176	710	35.92	180	250	5.890	920	---	
132	175	2980	315M	94.8	93.5	92	92	91.5	88	230	218	211	710	43.1	180	240	6.597	970	---	
160	215	2975	315L	95	93.5	92	93	93	91	275	261	252	710	52.33	180	220	7.421	1080	---	
200	268	2975	315L	95	94	92.5	92.5	92	89.5	346	329	317	710	65.41	180	220	8.482	1170	---	
250	335	2980	355M	95.3	94	92.5	93	93	91.5	429	407	392	710	81.63	160	230	13.608	1690	---	
315	422	2980	355L	95.6	94.5	93.5	93.5	93.5	92	535	509	490	710	102.9	160	230	16.429	1860	---	

Note:

1. FLC = full-load current, LRC = locked rotor current,
FLT= full-load torque, LRT = locked rotor torque, BDT=breakdown torque or pull-out torque
2. Tests and performance tolerances are in accordance with EN60034
3. To obtain the ampere values of 220V 50Hz, multiply the 380 volt values by the factor of 1.73
4. Aluminium frame model AAEV(foot-mounted) , AAEV (flange-mounted) and AAEV (Foot and flange mounting) are up to frame size 160L only
Cast iron frame motors (Model AEV, AEV and AEV) are from frame size 63 through 355L
5. Weights shown above are for foot-mounted motor.
6. Data is subject to change without prior notification.

Performance Data

4 Poles 50 Hz, Synchronous Speed 1500 rpm, Class F insulation, S1 (MCR) Duty, Efficiency Class EFF2

Output		Full Load Speed (RPM)	Frame Size	% Efficiency			% Power Factor			Full-load Current			LRC FLC (%)	Torque			Rotor GD ² (Kg·m ²)	Cast Iron frame motor Wt (Kg)	A1 frame motor Wt (Kg)
KW	(HP)			Full Load	75% Load	50% Load	Full Load	75% Load	50% Load	380V (A)	400V (A)	415V (A)		FLT Kg-m	LRT (%)	BDT FLT (%)			
0.12	0.16	1320	63M	57	57.5	53.5	72	62.5	49	0.44	0.42	0.41	440	0.088	210	220	0.001	---	4.8
0.18	0.25	1320	63M	60	61	57.5	73	63.5	50	0.62	0.59	0.57	440	0.133	210	220	0.002	---	5
0.25	0.33	1350	71M	65	65	61.5	74	63.5	49	0.79	0.75	0.72	520	0.18	210	220	0.003	---	6.3
0.37	0.50	1340	71M	67	68	64.5	75	65	49.5	1.12	1.06	1.03	520	0.269	210	220	0.003	---	6.5
0.55	0.75	1390	80M	71	71.5	68	75	65.5	50.5	1.57	1.49	1.44	520	0.385	240	230	0.005	15	9.5
0.75	1	1380	80M	74.5	75	73	76	66.5	52	2.01	1.91	1.85	600	0.529	230	230	0.007	16	10
1.1	1.5	1390	590S	76.2	76.5	74	77	68	52.5	2.85	2.71	2.61	600	0.767	230	230	0.009	22	11
1.5	2	1390	90L	78.5	79.5	78	79	70	55.5	3.67	3.5	3.37	600	1.05	230	230	0.013	27	15.5
2.2	3	1410	100L	81	82	80.5	81	73.5	59.5	5.09	4.85	4.67	700	1.518	230	230	0.024	34	20
3	4	1410	100L	82.6	83.5	83	82	75.5	62.5	6.73	6.4	6.17	700	2.07	230	230	0.032	35	23.5
4	5.5	1435	112M	84.2	85	84	82	75.5	62	8.8	8.37	8.07	700	2.712	230	230	0.052	44	30
5.5	7.5	1440	132S	85.7	86	85	83	78	68	11.7	11.2	10.8	700	3.716	230	230	0.106	61	40
7.5	10	1440	132M	87	87.5	86.5	84	79.5	69.5	15.6	14.8	14.3	700	5.068	230	230	0.146	73	51
11	15	1460	160M	88.5	89.5	89	85.5	80.5	69.5	22.1	21	20.2	700	7.331	220	290	0.332	113	---
15	20	1465	160L	90.3	90.5	90	85.5	80.5	70	29.5	28	27	750	9.962	220	310	0.442	133	---
18.5	25	1470	180M	90.7	91	90	86	81.5	71	36	34.2	33	750	12.25	220	260	0.607	167	---
22	30	1470	180L	91.5	91.5	90.5	86	81.5	71	42.5	40.4	38.9	750	14.56	220	270	0.679	181	---
30	40	1475	200L	92	92	91.5	87	83	74	56.9	54.1	52.1	720	19.79	220	260	1.111	232	---
37	50	1480	225S	92.7	92.5	92	87.5	84.5	76.5	69.3	65.8	63.5	720	24.33	220	230	1.911	287	---
45	60	1480	225M	93.3	93	92.5	87.5	84	75.5	83.7	79.6	76.7	720	29.58	220	250	2.335	322	---
55	75	1480	250M	93.3	93	92.5	87.5	84.5	76.5	102	97.2	93.7	720	36.16	220	230	2.755	385	---
75	100	1485	280S	93.6	93.5	92.5	88.5	86.5	80	138	131	126	720	49.14	220	230	5.123	510	---
90	125	1485	280M	94.4	94	93	88	85	76.5	165	156	151	720	58.97	220	260	6.433	600	---
110	150	1485	315S	94.7	94.5	93.5	89.5	87.5	81.5	197	187	181	690	72.07	210	220	12.412	930	---
132	175	1485	315M	94.8	94.5	94	89.5	87.5	81	236	225	216	690	86.49	210	220	13.963	1010	---
160	215	1485	315L	95	94.5	94	90	88.5	83.5	284	270	260	690	104.8	210	230	16.401	1070	---
200	268	1485	315L	95.2	95	94.5	90	89	84	355	337	325	690	131	210	220	19.282	1170	---
250	335	1490	355M	95.5	95	94.5	91	90	86	437	415	400	690	163.3	210	220	31.752	1720	---
315	422	1490	355L	95.8	95.5	94.5	91.5	91	87.5	546	519	500	690	205.7	210	220	39.311	1870	---

Note:

1. FLC = full-load current, LRC = locked rotor current,
FLT= full-load torque, LRT = locked rotor torque, BDT=breakdown torque or pull-out torque
2. Tests and performance tolerances are in accordance with EN60034
3. To obtain the ampere values of 220V 50Hz, multiply the 380 volt values by the factor of 1.73
4. Aluminium frame motors A AEV (foot-mounted), AAEV (flange-mounted) and AAEV
(Foot and flange mounting) are up to frame size 160L only
Cast iron frame motors (Model AEV, AEV and AEV) are from frame size 80 through 355L
5. Weights shown above are for foot-mounted motor.
6. Data is subject to change without prior notification.

Performance Data

6 Poles 50 Hz, Synchronous Speed 1000 rpm, Class F insulation, SI (MCR) Duty, Efficiency Class EFF2

Output		Full Load Speed	Frame Size	% Efficiency			% Power Factor			Full-load Current					Torque			Rotor GD²	Cast Iron frame motor Wt (Kg)	A1 frame motor Wt (Kg)
KW	(HP)			Full Load	75% Load	50% Load	Full Load	75% Load	50% Load	380V	400V	415V	LRC FLC		FLT	LRT FLT	BDT FLT			
0.18	0.25	865	71M	62.5	62.5	57	72	61.5	48	0.61	0.58	0.56	400	0.202	190	200	0.004	---	6	
0.25	0.33	865	71M	65	65	60	71	60.5	47	0.82	0.78	0.76	400	0.281	190	200	0.005	---	6.8	
0.37	0.5	885	80M	62	61.5	53.5	70	59	44.5	1.3	1.23	1.19	470	0.407	190	200	0.007	15	9	
0.55	0.75	885	80M	64	63.5	55.5	69	58.5	44	1.89	1.8	1.74	470	0.605	190	210	0.009	16	10	
0.75	1	915	90S	72.5	72	67	71	60	44.5	2.21	2.11	2.03	560	0.798	200	210	0.015	24	13	
1.1	1.5	915	90L	75.2	74.5	70.5	71	59.5	45.5	3.16	2.98	2.87	560	1.17	200	210	0.021	27	16	
1.5	2	910	100L	78	79	77.5	74	65.5	52.5	3.95	3.76	3.62	640	1.604	200	210	0.037	36	20	
2.2	3	945	112M	80.5	81	79.5	75	67	52.5	5.54	5.27	5.08	650	2.265	200	210	0.067	43	27	
3	4	965	132S	81.5	81	78.5	76	65.5	51	7.36	7	6.75	650	3.025	210	210	0.121	56	36	
4	5.5	965	132M	83	82.5	80.5	76	66.5	52.5	9.63	9.16	8.83	650	4.033	210	210	0.164	71	42	
5.5	7.5	965	132M	84.6	83.5	82	77	69.5	56	12.8	12.2	11.8	650	5.546	210	210	0.221	75	52	
7.5	10	970	160M	86	85.5	83.5	74	65	49.5	17.9	17	16.4	650	7.523	200	290	0.374	108	---	
11	15	970	160L	87.8	86.5	85.5	77	69.5	55.5	24.7	23.5	22.6	650	11.03	200	280	0.530	131	---	
15	20	975	180L	89.5	89.5	88.5	82	75.5	62	31.1	29.5	28.4	700	14.97	200	250	0.890	171	---	
18.5	25	980	200L	90.1	90	89	83	77.5	65.5	37.6	35.7	34.4	700	18.37	210	240	1.331	216	---	
22	30	975	200L	90.6	90.5	90	84.5	79.5	69	43.7	41.5	40	700	21.95	210	230	1.539	225	---	
30	40	985	225M	91.8	92	91.5	82.5	77.5	67	60.2	57.2	55.1	700	29.63	200	220	2.452	286	---	
37	50	980	250M	92	91.5	91	87.5	84.5	76.5	69.8	66.3	63.9	700	36.74	210	250	3.741	380	---	
45	60	985	280S	92.5	92.5	91.5	87.5	84	75	84.5	80.2	77.4	700	44.45	210	250	5.985	465	---	
55	75	985	280M	92.8	93	92.5	88	85	77	102	97.2	93.7	700	54.33	210	250	7.149	540	---	
75	100	990	315S	93.5	93.5	93	86	82	73.5	142	135	130	700	73.71	200	220	14.433	861	---	
90	125	990	315M	93.9	94	93	86.5	83	74.5	168	160	154	700	88.45	200	230	17.084	940	---	
110	150	990	315L	94.3	94.5	94	87	85	77	204	194	187	670	108.1	200	220	21.208	1100	---	
132	175	990	315L	94.7	94.5	94	87	84.5	76	243	231	223	670	129.7	200	230	24.448	1175	---	
160	215	990	355M	94.9	94.5	93.5	89	87	81.5	288	273	264	670	157.3	190	230	35.024	1620	---	
200	268	990	355M	95	95	94	89	87	81.5	359	341	329	670	196.6	190	230	41.650	1730	---	
250	335	990	355L	95	95	94	89.5	88	82.5	447	424	409	670	245.7	190	230	53.010	1820	---	

Note :

1. FLC = full-load current, LRC = locked rotor current,
FLT= full-load torque, LRT = locked rotor torque, BDT=breakdown torque or pull-out torque
2. Tests and performance tolerances are in accordance with EN60034
3. To obtain the ampere values of 220V 50Hz, multiply the 380 volt values by the factor of 1.73
4. Aluminium frame model AAEV (foot-mounted), AAEV (flange-mounted) and AAEV
(Foot and flange mounting) are up to frame size 160L only
5. Weights shown above are for foot-mounted motor.
6. Data is subject to change without prior notification.

Performance Data

8 Poles 50 Hz, Synchronous Speed 1000 rpm, Class F insulation, SI (MCR) Duty, Efficiency Class EFF2

Output		Full Load Speed	Frame Size	% Efficiency			% Power Factor			Full-load Current			LRC	Torque			Rotor GD ²	Cast Iron frame motor	A1 frame motor
KW	(HP)			Full Load	75% Load	50% Load	Full Load	75% Load	50% Load	380V	400V	415V		FLT	LRT	BDT			
0.18	0.25	645	80M	51	49.5	44	61	51.5	40.5	0.88	0.84	0.81	330	0.272	180	190	0.008	16	9
0.25	0.33	645	80M	54	52	46	61	51	40	1.15	1.1	1.06	330	0.377	180	190	0.01	17	10
0.37	0.5	670	90S	62	60.5	55	61	51	39.5	1.4	91.4	11.3	640	0.537	180	190	0.016	24	13
0.55	0.75	670	90L	63	61.5	55.5	61	50.5	38.5	2.17	2.07	1.99	400	0.799	180	200	0.02	26	16
0.75	1	680	100L	69.5	67.5	59.5	65	53.5	40	2.52	2.4	2.31	400	1.073	180	200	0.026	33	20
1.1	1.5	680	100L	72	71.5	66.5	69	58	43.5	3.36	3.2	3.08	500	1.574	180	200	0.034	34	23.5
1.5	2	700	112M	75	74.5	70.5	69	58.5	44	4.4	4.19	4.04	500	2.085	180	200	0.058	39	30
2.2	3	710	132S	78	77.5	73.5	71	60.5	45.5	6.04	5.74	5.53	600	3.015	180	200	0.121	62	42
3	4	710	132M	80	81	79	73	64.5	50.5	7.8	7.42	7.16	600	4.111	180	200	0.164	66	52
4	5.5	720	160M	82.3	82	79.5	73	62.5	48	10.1	9.61	9.26	600	5.406	190	230	0.265	94	---
5.5	7.5	720	160M	84.5	84.5	83	73.5	64.5	50.5	13.5	12.8	12.3	600	7.433	200	240	0.374	106	---
7.5	10	720	160L	85.5	85	83.5	75.5	67.5	53	17.7	16.8	16.2	600	10.14	200	240	0.530	128	---
11	15	725	180L	87.5	88	87	76	69	55	25.1	23.9	23	660	14.76	200	220	0.864	170	---
15	20	730	200L	89.1	89.5	88.5	75.5	69	56	33.9	32.2	31	660	19.99	200	230	1.456	220	---
18.5	25	730	225S	90.1	90.5	89	75.5	68.5	55	41.3	39.3	37.8	660	24.66	190	230	2.180	270	---
22	30	730	225M	90.6	91	90	77.5	71.5	59	47.6	45.2	43.6	660	29.32	190	220	2.588	295	---
30	40	735	250M	90.8	91	90	78.5	71.5	58.5	63.9	60.7	58.6	660	39.71	190	240	3.938	370	---
37	50	735	280S	91.5	92	91	80.5	74.5	62.5	76.3	72.5	69.9	660	48.98	190	210	6.333	475	---
45	60	740	280M	92	92	91.5	79.5	73.5	61	93.5	88.8	85.6	660	59.17	190	230	7.813	555	---
55	75	740	315S	92.8	93	92	82	78	68	110	104	101	660	72.32	180	210	15.946	905	---
75	100	740	315M	93.5	93.5	92.5	82.5	79	70	148	140	135	660	98.61	180	210	21.794	981	---
90	125	740	315L	93.8	94	93	82.5	79	69	177	168	162	660	118.3	180	220	25.946	1070	---
110	150	740	315L	94.1	94	93	81.5	77.5	68	218	207	200	640	144.6	180	210	30.443	1160	---
132	175	740	355M	94.4	94	93	81.5	77.5	66.5	261	248	239	640	173.6	180	200	46.553	1700	---
160	215	740	355M	94.7	94.5	93	82.5	79.5	71.5	311	296	285	640	210.4	180	200	52.955	1730	---
200	268	740	355L	94.8	94.5	93.5	82.5	80	72	389	369	356	640	263	180	200	65.175	1970	---

10 Poles 50 Hz, Synchronous Speed 600 rpm, Class F insulation, S1 (MCR) Duty, Efficiency Class EFF2

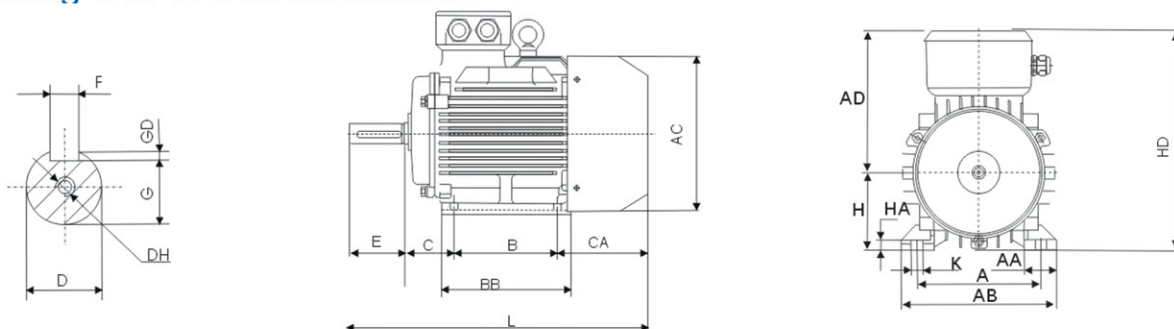
45	60	590	315S	92	92.5	91.5	76	70.5	59.5	97.8	92.9	89.5	600	74.21	150	200	15.913	890	---
55	75	590	315M	92.5	93	91.5	75	69	57.5	120	114	110	600	90.7	150	200	19.373	965	---
75	100	590	315L	93	93.5	92.5	76.5	71	60	160	152	147	600	123.7	150	200	25.984	1040	---
90	125	590	315L	93.3	93.5	92.5	76	70.5	59.5	193	183	177	600	148.4	150	200	30.443	1130	---
110	150	590	355M	93.4	93.5	92.5	79	75	64	227	215	207	600	181.4	130	200	44.226	1620	---
132	175	590	355M	93.6	94	93	78	73.5	61.5	275	261	252	600	217.7	130	200	52.955	1730	---
160	215	590	355L	93.7	94	93	78.5	76	66.5	330	314	303	600	263.9	130	200	65.175	1970	---

Note :

1. FLC = full-load current, LRC = locked rotor current,
FLT= full-load torque, LRT = locked rotor torque, BDT=breakdown torque or pull-out torque
2. Tests and performance tolerances are in accordance with EN60034
3. To obtain the ampere values of 220V 50Hz, multiply the 380 volt values by the factor of 1.73
4. Aluminium frame model AAEV (foot-mounted) , AAEV (flange-mounted) and AAEV(Foot and flange mounting) are up to frame 160L only. Cast iron frame motors (Model AEV, AEV and AEV) are from frame size 80 through 355L
5. Weights shown above are for foot-mounted motor. 6. Data is subject to change without prior notification.

AEV CAST IRON (63-355L) B3

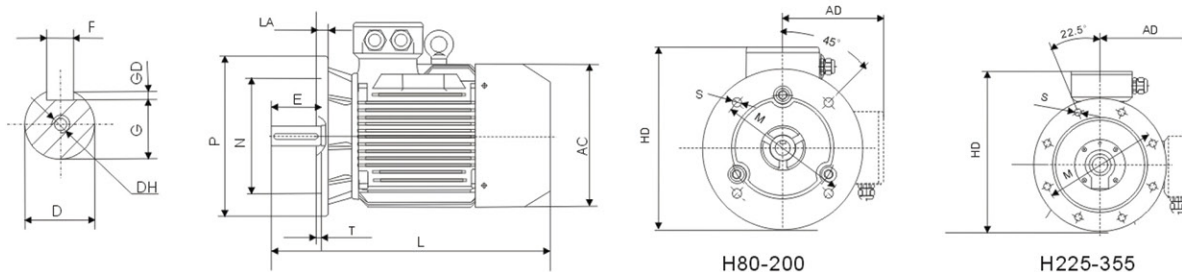
Mounting and overall dimensions



Type	Poles	Mounting Dimensions										Overall Dimensions						
		A	B	C	D	E	F	G	GD	H	K	AB	AC	AD	BB	HD	L	DH
71M	2.4.6	112	90	45	14	30	5	11	3	71	7	150	145	127	114	198	245	M5 x 12
80M	2.4.6.8	125	100	50	19	40	6	15.5	3.5	80	10	165	165	147	130	227	304	M6 x 16
90S	2.4.6.8	140	100	56	24	50	8	20	4	90	10	180	180	155	135	245	336	M8 x 19
90L	2.4.6.8	140	125	56	24	50	8	20	4	90	10	180	180	155	160	266	361	M8 x 19
100L	2.4.6.8	160	140	63	28	60	8	24	4	100	12	205	205	166	180	294	406	M10 x 22
112M	2.4.6.8	190	140	70	28	60	8	24	4	112	12	230	230	182	180	335	452	M10 x 22
132S	2.4.6.8	216	140	89	38	80	10	33	5	132	12	270	270	203	190	335	470	M12 x 28
132M	2.4.6.8	216	178	89	38	80	10	33	5	132	12	270	270	203	230	335	508	M12 x 28
160M	2.4.6.8	254	210	108	42	110	12	37	5	160	15	320	325	251	260	411	608	M16 x 36
160L	2.4.6.8	254	254	108	42	110	12	37	5	160	15	320	325	251	310	447	652	M16 x 36
180M	2.4.6.8	279	241	121	48	110	14	42.5	5.5	180	15	355	360	267	241	447	688	M16 x 36
180L	2.4.6.8	279	279	121	48	110	14	42.5	5.5	180	15	355	360	267	279	499	726	M16 x 36
200L	2.4.6.8	318	305	133	55	110	16	49	6	200	19	395	400	299	370	547	779	M20 x 42
225S	4.8	356	286	149	60	140	18	53	7	225	19	435	450	322	355	547	824	M20 x 42
225M	2	356	311	149	55	110	16	49	6	225	19	435	450	322	380	547	819	M20 x 42
	4.6.8	406	311	149	60	140	18	53	7	225	19	435	450	322	380	608	849	M20 x 42
250M	2	406	349	168	60	140	18	53	7	250	24	490	500	358	420	608	910	M20 x 42
	4.6.8	457	349	168	65	140	18	58	7	250	24	490	500	358	420	667	910	M20 x 42
280S	2	457	368	190	65	140	18	58	7	280	24	550	565	387	440	667	982	M20 x 42
	4.6.8	457	368	190	75	140	20	67.5	7.5	280	24	550	565	387	440	667	982	M20 x 42
280M	2	457	419	190	65	140	18	58	7	280	24	550	565	387	480	667	1033	M20 x 42
	4.6.8	457	419	190	75	140	20	67.5	7.5	280	24	545	565	387	490	667	1033	M20 x 42
315S	2	508	406	216	65	140	18	58	7	315	28	635	630	527	570	842	1194	M20 x 42
	4.6.8.10	508	406	216	80	170	22	71	9	315	28	635	630	527	570	842	1224	M20 x 42
315M	2	508	457	216	65	140	18	58	7	315	28	635	630	527	680	842	1304	M20 x 42
	4.6.8.10	508	457	216	80	170	22	71	9	315	28	635	630	527	680	842	1334	M20 x 42
315L	2	508	508	216	65	140	18	58	7	315	28	635	630	527	680	842	1304	M20 x 42
	4.6.8.10	508	508	216	80	170	22	71	9	315	28	635	630	527	680	842	1334	M20 x 42
355S	2	610	500	254	75	140	20	67.5	7.5	355	28	730	750	642	640	997	1430	M20 x 42
	4.6.8.10	610	500	254	95	170	25	86	9	355	28	730	750	642	640	997	1430	M24 x 50
355M	2	610	560	254	75	140	20	67.5	7.5	355	28	730	750	642	700	997	1486	M20 x 42
	4.6.8.10	610	560	254	95	170	25	86	9	355	28	730	750	642	700	997	1516	M24 x 50
355L	2	610	630	254	75	140	20	67.5	7.5	355	28	730	750	642	770	997	1486	M20 x 42
	4.6.8.10	610	630	254	95	170	25	86	9	355	28	730	750	642	770	997	1516	M24 x 50

AEV CAST IRON (63-280) B5

Mounting and overall dimensions



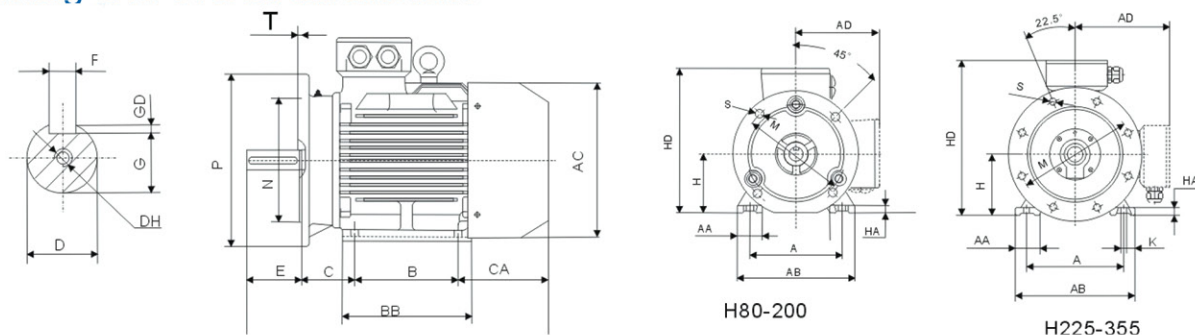
H80-200

H225-355

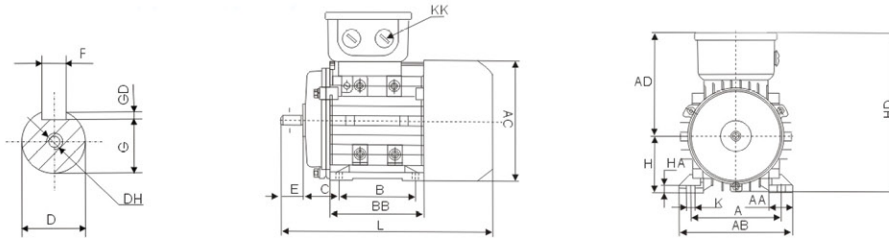
Type	Poles	Mounting Dimensions											Flange holes	Overall Dimensions				
		D	E	F	G	GD	M	N	P	R	S	T		AD	AD	HD	L	DH
71M	2.4.6	14	30	5	11	3	13	110	160	0	10	3.5	4	145	80	195	250	M5 x 12
80M	2.4.6.8	19	40	6	15.5	3.5	165	130	200	0	12	3.5	4	175	145	220	295	M6 x 16
90S	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	250	325	M8 x 19
90L	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	250	345	M8 x 19
100L	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	215	180	270	385	M10 x 22
112M	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	240	190	300	400	M10 x 22
132S	2.4.6.8	38	80	10	33	5	265	230	300	0	15	4	4	275	210	345	470	M12 x 28
132M	2.4.6.8	38	80	10	33	5	265	230	300	0	15	4	4	275	210	345	510	M12 x 28
160M	2.4.6.8	42	110	12	37	5	300	250	350	0	19	5	4	330	255	420	615	M16 x 36
160L	2.4.6.8	42	110	12	37	5	300	250	350	0	19	5	4	330	255	420	670	M16 x 36
180M	2.4.6.8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	380	280	455	700	M16 x 36
180L	2.4.6.8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	380	280	455	700	M16 x 36
200L	2.4.6.8	55	110	16	49	6	350	300	400	0	19	5	4	420	305	505	770	M20 x 42
225S	4.8	60	140	18	53	7	400	350	450	0	19	5	8	470	335	560	815	M20 x 42
225M	2	55	110	16	49	6	400	350	450	0	19	5	8	470	315	560	820	M20 x 42
	4.6.8	60	140	18	53	7	400	350	450	0	19	5	8	470	335	560	845	M20 x 42
250M	2	60	140	18	53	7	500	450	550	0	19	5	8	510	370	615	910	M20 x 42
	4.6.8	65	140	18	58	7	500	450	550	0	19	5	8	510	370	615	910	M20 x 42
280S	2	65	140	18	58	7	500	450	550	0	19	5	8	580	410	680	985	M20 x 42
	4.6.8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	580	410	680	985	M20 x 42
280M	2	65	140	18	58	7	500	450	550	0	19	5	8	580	410	680	1035	M20 x 42
	4.6.8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	580	410	680	1035	M20 x 42

AEV CAST IRON (80-355) B35

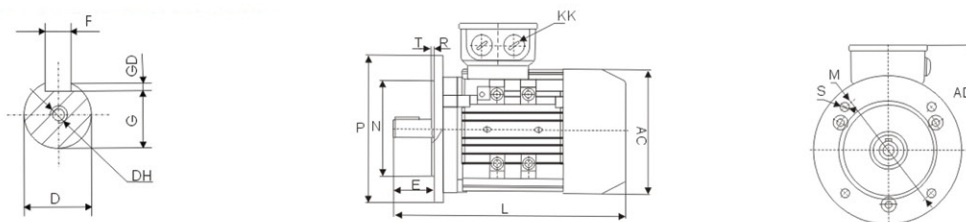
Mounting and overall dimensions



Type	Poles	Mounting Dimensions																Flange holes	Overall Dimensions							
		A	B	C	D	E	F	G	GD	H	K	M	N	P	R	S	T		AB	AC	AD	BB	HD	L	DH	
80M	2.4.6.8	125	100	50	19	40	6	15.5	3.5	80	10	165	130	200	0	12	3.5	4	165	175	145	130	214	295	M6 x 16	
90S	2.4.6.8	140	100	56	24	50	8	20	4	90	10	165	130	200	0	12	3.5	4	180	195	155	135	250	315	M8 x 19	
90L	2.4.6.8	140	125	56	24	50	8	20	4	90	10	165	130	200	0	12	3.5	4	180	195	155	160	250	340	M8 x 19	
100L	2.4.6.8	160	140	63	28	60	8	24	4	100	12	215	180	250	0	15	4	4	205	215	180	180	270	285	M10 x 22	
112M	2.4.6.8	190	140	70	28	60	8	24	4	112	12	215	180	250	0	15	4	4	230	240	190	180	300	400	M10 x 22	
132S	2.4.6.8	216	140	89	38	80	10	33	5	132	12	265	230	300	0	15	4	4	270	275	210	190	345	470	M12 x 28	
132M	2.4.6.8	216	178	89	38	80	10	33	5	132	12	265	230	300	0	15	4	4	270	275	210	230	345	510	M12 x 28	
160M	2.4.6.8	254	210	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	320	330	255	260	345	615	M16 x 36	
160L	2.4.6.8	254	254	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	320	330	255	310	420	670	M16 x 36	
180M	2.4.6.8	279	241	121	48	110	14	42.5	5.5	180	15	300	250	350	0	19	5	4	355	380	280	241	455	700	M16 x 36	
180L	2.4.6.8	279	279	121	48	110	14	42.5	5.5	180	15	300	250	350	0	19	5	4	355	380	280	279	455	740	M16 x 36	
200L	2.4.6.8	318	305	133	55	110	16	49	6	200	19	350	300	400	0	19	5	4	395	420	305	370	545	770	M20 x 42	
225S	4.8	356	286	149	60	140	18	53	7	225	19	400	350	450	0	19	5	8	435	470	335	355	550	815	M20 x 42	
225M	2	356	311	149	55	110	16	49	6	225	19	400	350	450	0	19	5	8	435	470	335	380	550	820	M20 x 42	
	4.6.8	406	311	149	60	140	18	53	7	225	19	400	350	450	0	19	5	8	435	470	335	380	550	845	M20 x 42	
250M	2	406	349	168	60	140	18	53	7	250	24	500	450	550	0	19	5	8	490	510	370	420	615	910	M20 x 42	
	4.6.8	457	349	168	65	140	18	58	7	250	24	500	450	550	0	19	5	8	490	510	370	420	615	910	M20 x 42	
280S	2	457	368	190	65	140	18	58	7	280	24	500	450	550	0	19	5	8	550	580	410	440	680	982	M20 x 42	
	4.6.8	457	368	190	75	140	20	67.5	7.5	280	24	500	450	550	0	19	5	8	550	580	410	440	680	982	M20 x 42	
280M	2	457	419	190	65	140	18	58	7	280	24	500	450	550	0	19	5	8	550	580	410	480	680	1035	M20 x 42	
	4.6.8	457	419	190	75	140	20	67.5	7.5	280	24	500	450	550	0	19	5	8	545	580	410	490	680	1035	M20 x 42	
315S	2	508	406	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	635	645	530	570	845	1160	M20 x 42	
	4.6.8.10	508	406	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8	635	645	530	570	845	1270	M20 x 42	
315M	2	508	457	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	635	645	530	680	845	1190	M20 x 42	
	4.6.8.10	508	457	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8.8	635	645	530	680	845	1300	M20 x 42	
315L	2	508	508	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	635	645	530	680	845	1190	M20 x 42	
	4.6.8.10	508	508	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8	635	645	530	680	845	1300	M20 x 42	
355S	2	610	500	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	730	710	655	640	1010	1430	M20 x 42	
	4.6.8.10	610	500	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	730	710	655	640	1010	1500	M24 x 50	
355M	2	610	560	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	730	710	655	700	1010	1500	M20 x 42	
	4.6.8.10	610	560	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	730	710	655	700	1010	1530	M24 x 50	
355L	2	610	630	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	730	710	655	770	1010	1500	M20 x 42	
	4.6.8.10	610	630	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	730	710	655	770	1010	1530	M24 x 50	

AAEV ALUMINIUM (56-160) B3**Mounting and overall dimensions**

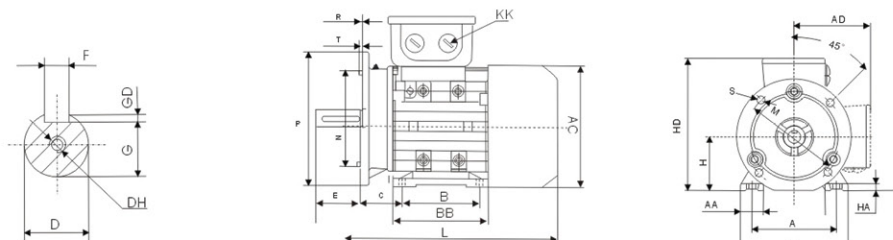
Type	Poles	Mounting Dimensions										Overall Dimensions						
		A	B	C	D	E	F	G	GD	H	K	AB	AC	AD	BB	HD	L	DH
56M	2.4	90	71	36	9	20	3	7.2	1.8	56	6	115	110	100	88	156	199	M4 x 10
63M	2.4	100	80	40	11	23	4	8.5	2.5	63	7	130	150	115	110	178	217	M4 x 10
71M	2.4.6	112	90	45	14	30	5	11	3	71	7	140	155	127	114	198	245	M5 x 12
80M	2.4.6.8	125	100	50	19	40	6	15.5	3.5	80	10	165	165	134	130	214	287	M6 x 16
90S	2.4.6.8	140	100	56	24	50	8	20	4	90	12	180	180	140	135	285	315	M8 x 19
90L	2.4.6.8	140	125	56	24	50	8	20	4	90	12	180	180	140	160	285	340	M8 x 19
100L	2.4.6.8	160	140	63	28	60	8	24	4	100	12	200	205	160	180	315	385	M10 x 22
112M	2.4.6.8	190	140	70	28	60	8	24	4	112	12	245	230	178	180	352	400	M10 x 22
132S	2.4.6.8	216	140	89	38	80	10	33	5	132	15	280	270	206	190	407	483	M12 x 28
132M	2.4.6.8	216	178	89	38	80	10	33	5	132	15	280	270	206	230	407	510	M12 x 28
160M	2.4.6.8	254	210	108	42	110	12	37	5	160	15	330	325	255	260	490	615	M16 x 36
160L	2.4.6.8	254	254	108	42	110	12	37	5	160	15	330	325	255	310	490	670	M16 x 36

AAEV ALUMINIUM (56-160) B5**Mounting and overall dimensions**

Type	Poles	Mounting Dimensions												Flange holes	Overall Dimensions			
		D	E	F	G	GD	M	N	P	R	S	T	AD		AD	L	DH	
56M	2.4	9	20	3	7.2	1.8	100	80	120	0	10	3	4	110	100	199	M4 x 10	
63M	2.4.6	11	23	4	8.5	2.5	115	95	140	0	10	3	4	130	115	217	M4 x 10	
71M	2.4.6	14	30	5	11	3	13	110	160	0	10	3.5	4	145	80	250	M5 x 12	
80M	2.4.6.8	19	40	6	15.5	3.5	165	130	200	0	12	3.5	4	175	145	295	M6 x 16	
90S	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	325	M8 x 19	
90L	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	345	M8 x 19	
100L	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	215	180	385	M10 x 22	
112M	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	240	190	400	M10 x 22	
132S	2.4.6.8	38	80	10	33	5	265	230	300	0	15	4	4	275	210	470	M12 x 28	
132M	2.4.6.8	38	80	10	33	5	265	230	300	0	15	4	4	275	210	510	M12 x 28	
160M	2.4.6.8	42	110	12	37	5	300	250	350	0	19	5	4	330	255	615	M16 x 36	
160L	2.4.6.8	42	110	12	37	5	300	250	350	0	19	5	4	330	255	670	M16 x 36	

AAEV ALUMINIUM (56-160) B35

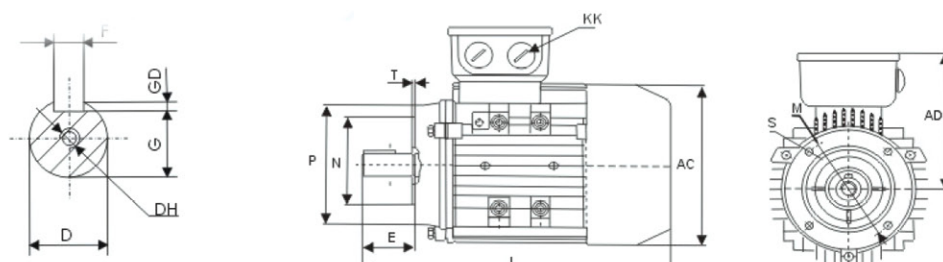
Mounting and overall dimensions



Type	Poles	Mounting Dimensions																Flange holes	Overall Dimensions							
		A	B	C	D	E	F	G	GD	H	K	M	N	P	R	S	T		AB	AC	AD	BB	HD	L	DH	
80M	2.4.6.8	125	100	50	19	40	6	15.5	3.5	80	10	165	130	200	0	12	3.5	4	165	175	145	130	214	295	M6 x 16	
90S	2.4.6.8	140	100	56	24	50	8	20	4	90	10	165	130	200	0	12	3.5	4	180	195	155	135	250	315	M8 x 19	
90L	2.4.6.8	140	125	56	24	50	8	20	4	90	10	165	130	200	0	12	3.5	4	180	195	155	160	250	340	M8 x 19	
100L	2.4.6.8	160	140	63	28	60	8	24	4	100	12	215	180	250	0	15	4	4	205	215	180	180	270	285	M10 x 22	
112M	2.4.6.8	190	140	70	28	60	8	24	4	112	12	215	180	250	0	15	4	4	230	240	190	180	300	400	M10 x 22	
132S	2.4.6.8	216	140	89	38	80	10	33	5	132	12	265	230	300	0	15	4	4	270	275	210	190	345	470	M12 x 28	
132M	2.4.6.8	216	178	89	38	80	10	33	5	132	12	265	230	300	0	15	4	4	270	275	210	230	345	510	M12 x 28	
160M	2.4.6.8	254	210	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	320	330	255	260	345	615	M16 x 36	
160L	2.4.6.8	254	254	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	320	330	255	310	420	670	M16 x 36	

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Mounting and overall dimensions



Type	Poles	Mounting Dimensions												Flange holes	Overall Dimensions			
		D	E	F	G	GD	M	N	P	R	S	T	AD		AD	L	DH	
56M	2.4	9	20	3	7.2	1.8	100	80	120	0	10	3	4	110	100	199	M4 x 10	
63M	2.4.6	11	23	4	8.5	2.5	115	95	140	0	10	3	4	130	115	217	M4 x 10	
71M	2.4.6	14	30	5	11	3	13	110	160	0	10	3.5	4	145	80	250	M5 x 12	
80M	2.4.6.8	19	40	6	15.5	3.5	165	130	200	0	12	3.5	4	175	145	295	M6 x 16	
90S	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	325	M8 x 19	
90L	2.4.6.8	24	50	8	20	4	165	130	200	0	12	3.5	4	195	155	345	M8 x 19	
100L	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	215	180	385	M10 x 22	
112M	2.4.6.8	28	60	8	24	4	215	180	250	0	15	4	4	240	190	400	M10 x 22	

STANDARD AND SPECIFICATION

All ELMOTO motors are manufactured in accordance with the following standards:

TITLES	IEC
General	IEC 60034-1 / IEC 60085
Dimension/ Outputs	IEC 60072
Starting	IEC 60034-12
Terminal Designation	IEC 60034-8
Construction	IEC 60034-7
Thermal Protection	IEC 60034-11
Voltage	IEC 60038
Cooling	IEC 60034-6
Vibration	IEC 60034-14
Protection	IEC 60034-5

ELECTRICAL

Standard motors have the design and operating parameters as follows, any variation from this, performance alteration is expected according to the information given in this section.

Voltage: 400V / 50Hz
 Ambient Temperature: 40 degree Celsius
 Operation Altitude: up to 1000m
 Duty Cycle: S1 (Continuous)
 Rotation: Clockwise viewed from drive end

Voltage and Frequency

The motor can be supplied with wide range of rated voltage with tolerance of +/- 10% in accordance to IEC 60038. Standard stock items with operating voltage ranging as follows:

Rated kW	Voltage Range
≤ 2.2	220-240V / 380-415V for 50Hz
≤ 2.2	220-240V / 380-480V for 60Hz *
≥ 3	380-415V for 50Hz
≥ 3	380-440V for 60Hz *

* Performance variation as per multiplier listed below if supplied with different voltage and cycle.(In term of performance at 400V/ 50hz

Supply [Volt/Hz]	Starting Torque	Rated Torque
380 / 50	0.9	1.01
400 / 50	1	1
415 / 50	1.07	0.99
380 / 60	0.61	0.84
440 / 60	0.81	0.82
480 / 60	0.95	0.81

Rated output / Insulation and Temperature Rise

ELMOTO motors have class F insulation. Motor temperature is class B, 80 degree Celsius, above an ambient temperature of 40 degree Celsius, and at an altitude of less than 1000 meters above sea level.

If any deviation of the above mentioned operating parameters, the maximum output should be deviated from rated output according to the table as shown.

Altitudes from sea level (m)	Ambient Temperature (°C)			
	<30	40	50	60
1000	1.08	1	0.94	0.82
2000	1	0.94	0.82	0.79
3000	0.94	0.82	0.79	0.71
4000	0.82	0.79	0.71	0.65

Variable Speed Driven

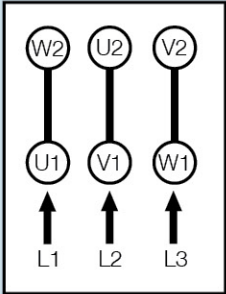
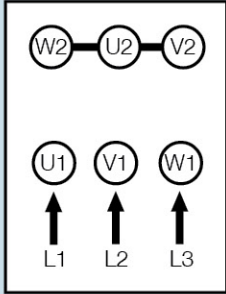
Driven under variable speed drive, special care has to be taken on the selection of drive and necessary filter in order to meet the acceptance level of the motor at time rise of 3200V/μs and maximum voltage of 2000VAC. However, maximum speed of rotation is limited to its mechanical capability (refer to mechanical section)

Speed Range With VFD

Motor allow the user to operate the motor with 30 Hz to 50Hz range of frequency supply under VFD for constant torque application. For variable torque application, wider range allowed from 20Hz to 50Hz.

Connection Diagram

Standard motor having connection method as shown.

	Delta (D) Low Voltage	Star (Y) High Voltage
Connection		
≤ 2.2 kW	220 - 240V	380 - 415V
≥ 3 kW	380 - 415V	

Note :

- (1) Above diagram shows the connection of DOL starting of the motor at 220-240V or 380-415V. For Star-delta starting, you have to remove all the terminal links at star and delta connection and connect the six wires from the star-delta starter to the terminals U1, V1, W1, U2, V2, W2 respectively.
- (2) Standard production motors 2.2kW and smaller can be used for DOL starting at 220-240V and 380-415V. But they can only be used for star-delta starting at voltage 220-240V because they are wound 220-240V in delta. 3kW and larger can be used at 380-415V DOL starting and also 380-415V star-delta starting because they are wound 380-415V in delta.

Degree of protection

Standard motor is of IP55 protection. IP56 is available on request. IP56 is for protection against heavy seas or water projected in powerful jets. Canopy is recommended for motor which is installed outdoors and is subjected to solar radiation from exposure to direct sunlight or downpour of rain. All standard motors are fitted with two drain plugs at the lowest point of the motor enclosure for water drainage purpose. End user should drain off the water periodically if there is any condensation inside the motor.

Cooling & Ventilation

All TEFC type motors are fitted with external fan for ventilation purpose. The airflow is from non-drive end to drive end. In case of variable speed driven, independent forced cooling fan is recommended for constant torque application lower than 30Hz supply and variable torque application lower than 20Hz supply.

Balancing & Vibration

The rotors of ELMOTO motors are dynamically balanced with a half key on the shaft extension. Coupling or pulley must be appropriately balanced before fitting onto the motor shaft. The vibration velocity magnitude in mm/s (r.m.s.) shall not exceed the limits specified in the following table when measured under free suspension mounting condition. Limits of maximum vibration velocity mm/s (r.m.s.) for free suspension mounting condition.

Speed RPM	Frame Size		
	56 - 132	160 - 280	315 and above
600 - 3600	1.6 mm/s	1.8 mm/s	2.8 mm/s

Terminal Box

Terminal boxes are with one or two cable entries with dimensions as shown below. Cast iron frame sizes 132 and smaller only have one cable entry. Cast iron frame 160 and above and all aluminium frames have two cable entries. For those Terminal boxes with two cable entries, one is supplied with cable gland and the other one closed with threaded cover (ready for use if required).

FRAME SIZE	CAST IRON TYPE		ALUMINIUM TYPE	
	CABLE ENTRY HOLE SIZE	No. OF HOLES	CABLE ENTRY HOLE SIZE	No. OF HOLES
63	-	-	M16 x 1.5	2
71	-	-	M20 x 1.5	2
80	M20 x 1.5	1	M20 x 1.5	2
90	M20 x 1.5	1	M20 x 1.5	2
100	M20 x 1.5	1	M20 x 1.5	2
112-132	M25 x 1.5	1	M25 x 1.5	2
160-180	M32 x 1.5	2	-	-
200	M50 x 1.5	2	-	-
255	M50 x 1.5	2	-	-
250-280	M63 x 1.5	2	-	-
315	M63 x 1.5	2	-	-
355	M72 x 2.0	2	-	-

Direction of rotation

Motors are suitable for bi-directional rotation. Standard motor rotates in clockwise direction as viewed from drive end. If counter-clockwise rotation is required, just interchange any two of the three cables of the starter connecting to the motor terminals. If you are using star-delta starter, then you have to interchange any two of the three incoming power lines to the starter.

OUTPUT KW					FRAME SIZE	BEARINGS	
2P	4P	6P	8P	10P		DE	NDE
0.18	0.18	-	-	-	63M	6201ZZC2	6201ZZC3
0.37	0.25	0.18	-	-	71M	6202ZZC3	6202ZZC3
0.55	0.37						
0.75	0.55	0.37	0.18	-	80M	6204ZZC3	6204ZZC3
1.1	0.75	0.55	0.25	-	-	-	-
1.5	1.1	0.75	0.37	-	90S	6205ZZC3	6205ZZC3
2.2	1.5	1.1	0.55	-	90L	6205ZZC3	6205ZZC3
3	2.2	1.5	0.75	-	100L	6206ZZC3	6206ZZC3
	3		1.1				
4	4	2.2	1.5	-	112M	6206ZZC3 (6306ZZC3)	6206ZZC3 (6306ZZC3)
5.5	5.5	3	2.2	-	132S	6208ZZC3 (6308ZZC3)	6208ZZC3 (6308ZZC3)
7.5							
-	7.5	4	3	-	132M	6208ZZC3	6208ZZC3
		5.5					
11	11	7.5	4	-	160M	6309ZZC3	6309ZZC3
15			5.5				
18.5	15	11	7.5	-	160L	6309ZZC3	6309ZZC3
22	18.5	-	-	-	180M	6311ZZC3	6311ZZC3
-	22	15	11	-	180L	6311ZZC3	6311ZZC3
30	30	18.5	15	-	200L	6312C23	6312C3
37		22					
-	37	-	18.5	-	225S	6313C3	6313C3
45	-	-	-	-	225M-2	6313C3	6313C3
-	45	30	22	-	225M	6313C3	6313C3
55	-	-	-	-	250M-2	6314C3	6314C3
-	55	37	30	-	250M	6314C3	6314C3
75	-	-	-	-	280S-2	6314C3	6314C3
-	75	45	37	-	280S	6317C3	6317C3
90	-	-	-	-	280M-2	6314C3	6314C3
-	90	55	45	-	280M	6317C3	6317C3
110	-	-	-	-	315S-2	6317C3	6317C3
-	110	75	55	-	315S	NU319C3	6319C3
132	--	-	-	-	315M-2	6317C3	6317C3
-	132	90	75	-	315M	NU319C3	6319C3
160	-	-	-	-	315L-2	6317C3	6317C3
200							
-	160	110	90	75	315L	NU319C3	6319C3
	200	132	110	90			
250	-	-	-	-	355M-2	6319C3	6319C3
-	250	160	132	110	355M	NU322C3	6322C3
		200	160	132			
315	-	-	-	-	355L-2	6319C3	6319C3
-	315	250	200	160	355L	NU322C3	6322C3

Bearing size in brackets are for Aluminium Frame Motor.

Bearing

Motors up to and including 180L frame sizes are fitted with double shielded deep groove ball bearings pre-lubricated with a lithium based grease. Frame 200 and larger are fitted with open type bearings that need re-lubrication. These larger frame motors with open bearings are fitted with a thru-flushing pressure grease relief valve which allows the bearing to be relubricated without stopping the motor.

Shaft

Motor output shaft is manufactured from high quality carbon steel, with keyway and key provided. Stainless steel shaft are available upon request with surcharge. All motors are supplied with shaft end protector to prevent from rust, scratch and dent during transportation.

Earth Terminal

All motors are fitted with an earth terminal within the main terminal box. An additional earth terminal is fitted on the motor foot for frame sizes 280 and above.

Optional Items

The following are available as optional:

1. Winding Thermal Protector PTC Thermistor / thermostat
2. Bearing RTD
3. Anti Condensation Heaters
4. Vibration sensor probe
5. Speed Encoder
6. Brake (DC /AC)
7. Gear
8. IP 56
9. Class H insulation
10. Corrosion proof
11. Special Paint finish
12. Special Shaft Extension
13. Canopy

Information required when ordering

When making an enquiry or ordering a motor, please give the following information :

1. Type of motor
2. Output KW
3. Speed or polarity: e.g. 2 Pole or 3000rpm etc
4. Supply particulars: e.g. 400V/50Hz/3Ph
5. Class of insulation: e.g. Class F or Class H
6. Mounting: B3, V1 or B35 (or in words)
7. Ambient temperature: e.g. 40 degree C
8. Drive Method: direct coupling or Belt & pulley drive (provide pulley details if possible)
9. Location: Indoor or outdoor
10. Environment: dusty, corrosive, safe or hazardous etc.
11. Application: pump, fan, compressor, conveyor etc.
12. Load inertia: (particularly important for high load inertia fans and flywheels)
13. Method of starting: DOL, Reduced voltage, inverter etc.
14. Enclosure: IP55, IP56 etc.
- 15 Accessories: e.g. thermistor, heater, bearing RTD etc.

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