

Fan and Exhaust Application Motors

Cast Iron Frame

Improved Efficiency EFF2

Standard Features:

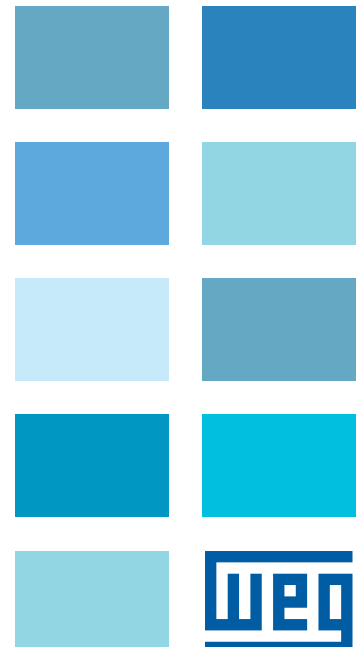
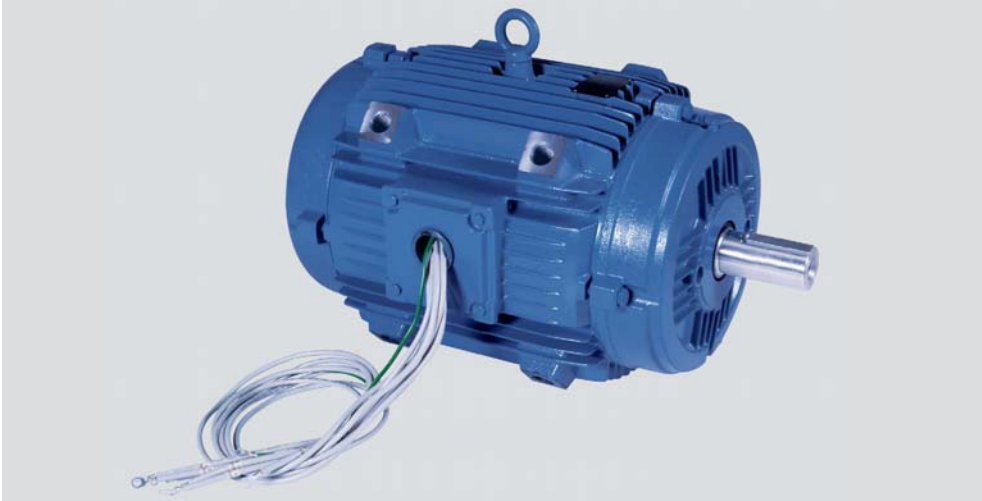
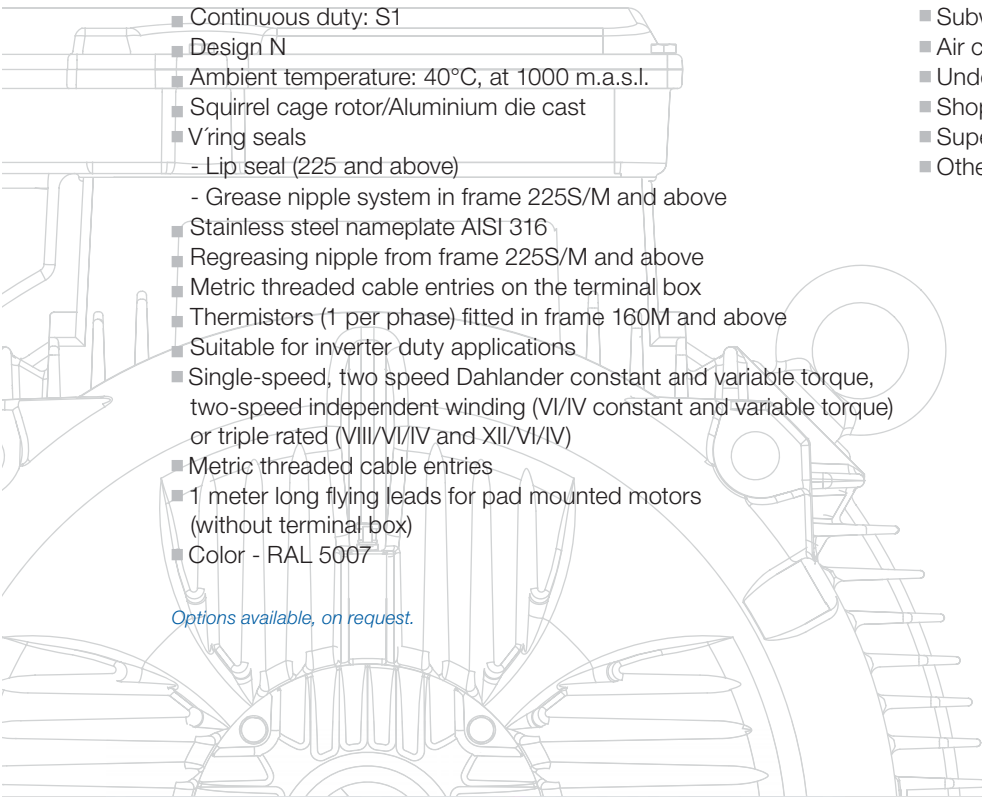
- Three-phase, multivoltage, IP55, TEFC
- Output: 0.06 up to 355kW
- Frames: 63 up to 355M/L
- Voltage: 220-240/380-415V (up to 100L)
380-415/660V (from 112M and up)
- Class "F" insulation ($\Delta T=80K$)
- Continuous duty: S1
- Design N
- Ambient temperature: 40°C, at 1000 m.a.s.l.
- Squirrel cage rotor/Aluminium die cast
- V-ring seals
 - Lip seal (225 and above)
 - Grease nipple system in frame 225S/M and above
- Stainless steel nameplate AISI 316
- Regreasing nipple from frame 225S/M and above
- Metric threaded cable entries on the terminal box
- Thermistors (1 per phase) fitted in frame 160M and above
- Suitable for inverter duty applications
- Single-speed, two speed Dahlander constant and variable torque, two-speed independent winding (VI/IV constant and variable torque) or triple rated (VIII/VI/IV and XII/VI/IV)
- Metric threaded cable entries
- 1 meter long flying leads for pad mounted motors (without terminal box)
- Color - RAL 5007

Options available, on request.

Typical Applications:

These motors are designed specially for axial fan manufacturers. The design allows high output in light and compact frame sizes for the following applications:

- Fan and exhausters
- Tunnels
- Subways
- Air conditioning systems
- Underground coal mines
- Shopping centers
- Supermarkets
- Other applications



Features and Benefits

Nameplate

Stainless steel nameplate ensuring a permanent record of all motor data.

Bearings

WEG motors are fitted with the highest quality bearings selected from the best manufacturers in the world and designed to ensure long life of the motor even under heavy working conditions. WEG also uses the Super-Premium Polyrex EM polyurea grease that is specially formulated for electric motor bearings. Its advanced thickener formulation provides low noise characteristics, improved bearing performance and protection.

Winding

The wire is enameled with class H varnish. Supplied with patented WISE (WEG Insulation System Evolution), which allows three times longer motor lifetime designed to operate in environments with excess of moisture and suitable for VFD application.

Rotor

High pressure die cast rotor dynamically balanced, thus reducing vibrations.

Shaft

WEG uses SAE/AISI 1040/45 carbon steel as standard, which provides high mechanical strength, preventing bending under load and minimizes fatigue which extends lifetime. Specially designed to withstand torques caused during motor acceleration and deceleration. Upon special design, motor shaft can have second shaft end.

Frame

Frame with special assembly system prepared for direct installation in ventilation ducts and made of FC-200 high-grade cast iron (same density as flameproof motors). The frames are provided with fins aimed at improving the heat dissipation and adequately spaced to minimize air blockage due to accumulation of dirt. The motors can be mounted in horizontal or vertical positions.

Terminal Box

Motor supplied with terminal box base and extended leads (1 meter) allowing lead connection outside of the duct. Loose terminal box and longer power supply leads can also be supplied.

Endshields

Made of cast iron, they are provided with external fins for better heat dissipation, thus increasing bearing life.

Seals

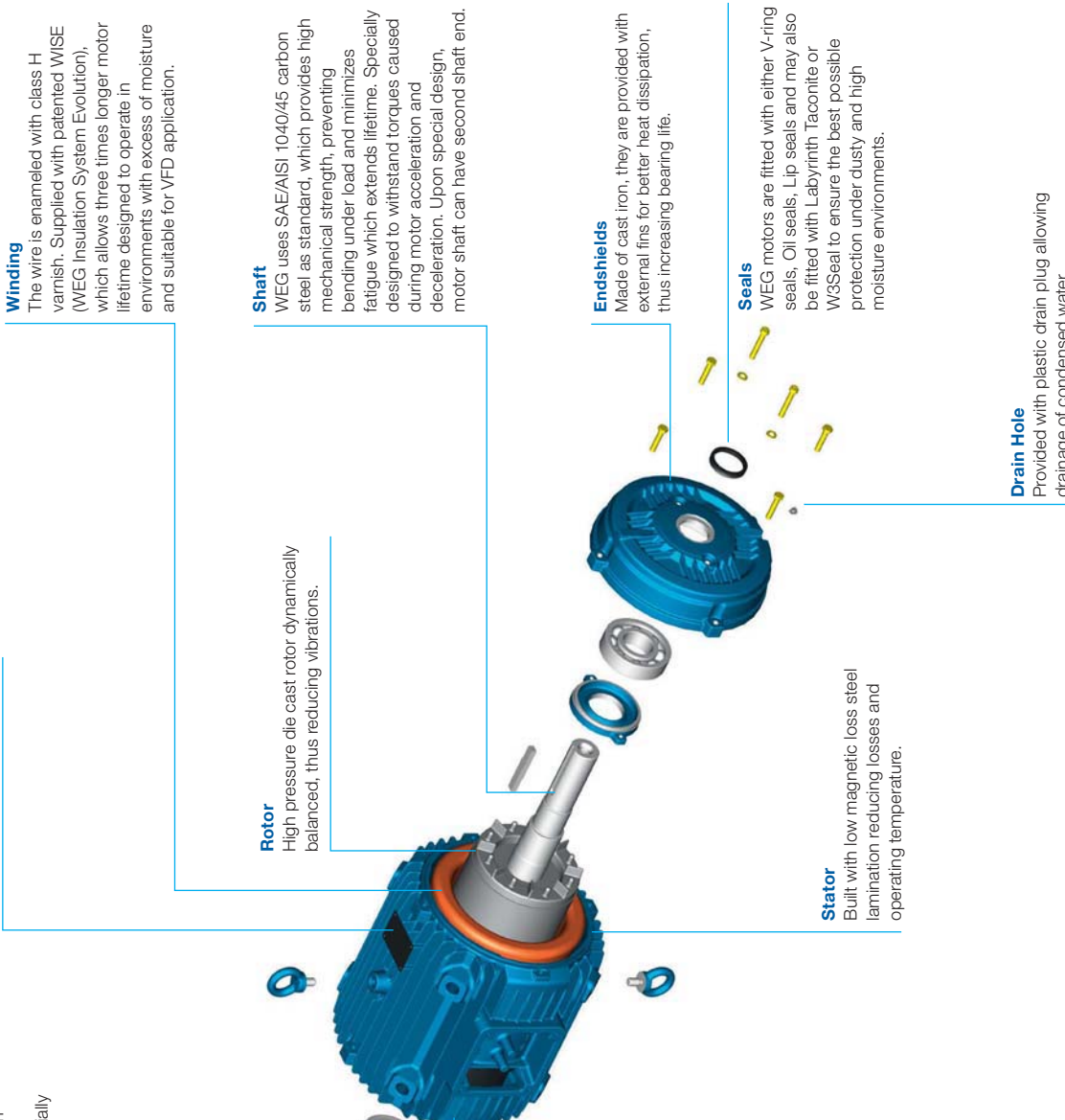
WEG motors are fitted with either V-ring seals, Oil seals, Lip seals and may also be fitted with Labyrinth Taconite or W3Seal to ensure the best possible protection under dusty and high moisture environments.

Stator

Built with low magnetic loss steel lamination reducing losses and operating temperature.

Drain Hole

Provided with plastic drain plug allowing drainage of condensed water.



Fan and Exhaust Application Motors Cast Iron Frame - Single Speed

Improved Efficiency EFF2

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											Efficiency η		Power Factor (Cos φ)				
												50	75	100	50	75	100	
II Pole - 3000 rpm																		
0.12	0.16	63	0.4	4.8	3	3.1	0.0001	27/59	6.3	52	2810	49	57	60.5	0.52	0.62	0.72	0.398
0.18	0.25	63	0.64	4.5	2.8	2.7	0.00014	30/66	6.6	52	2730	60	66	66.5	0.6	0.72	0.81	0.482
0.25	0.33	63	0.84	4.5	2.9	2.9	0.00016	25/55	7.1	52	2760	61.5	66.5	69.3	0.58	0.7	0.79	0.659
0.37	0.5	71	1.25	5.5	3	3.2	0.00033	23/51	9.5	56	2810	67.2	72	73.6	0.65	0.77	0.85	0.854
0.55	0.75	71	1.88	5.5	2.9	3	0.00045	16/35	10.9	56	2800	72.2	76	76	0.68	0.78	0.85	1.23
0.75	1	80	2.52	5.8	2.9	3.1	0.00079	25/55	14	59	2790	76	80	79.5	0.76	0.84	0.88	1.55
1.1	1.5	80	3.75	6	3	2.9	0.0009	13/29	14.5	59	2810	77.1	80.2	79.7	0.69	0.8	0.86	2.32
1.5	2	90S	4.9	6.8	2.8	3	0.00205	14/31	20	64	2865	78.5	81.5	82	0.7	0.8	0.85	3.11
2.2	3	90L	7.42	6.6	2.8	3	0.00242	9/20	22	64	2840	82.2	83.7	83.4	0.69	0.8	0.85	4.48
3	4	100L	9.76	7.2	2.6	2.8	0.00616	9/20	31	67	2880	83.2	85.7	85.6	0.77	0.85	0.88	5.75
4	5.5	112M	13.37	7.6	2.7	3.1	0.00842	15/33	41.1	64	2890	85	87.5	87.5	0.76	0.84	0.88	7.5
5.5	7.5	132S	17.95	8	2.7	3.2	0.02056	18/40	62.5	68	2935	84	87.1	88.3	0.73	0.82	0.87	10.3
7.5	10	132S	24.01	7.3	2.5	2.9	0.0243	10/22	66.5	68	2925	86.5	88.9	89.2	0.77	0.86	0.89	13.6
9.2	12.5	132M	29.97	8	2.8	3.2	0.02804	8/18	72	68	2930	85.5	88.5	89	0.75	0.84	0.88	17
11	15	160M	35.78	8.3	2.6	3.1	0.04706	12/26	96	70	2945	87.8	90.1	90.3	0.77	0.85	0.88	20
15	20	160M	47.7	7.8	2.5	3.2	0.05295	10/22	108.6	70	2945	89.6	91.1	91.2	0.76	0.84	0.88	27
18.5	25	160L	59.63	8.2	2.6	3.3	0.06471	10/22	121.7	70	2945	90.4	91.9	91.7	0.75	0.84	0.88	33.1
22	30	180L	71.43	8.2	2.8	3.1	0.11351	13/29	161.7	70	2950	90.5	92	92.1	0.78	0.86	0.89	38.7
30	40	200L	94.76	7.5	2.8	2.8	0.2063	19/42	239	74	2965	90	92	92.7	0.77	0.85	0.88	53.1
37	50	200L	118.45	7.6	2.9	2.9	0.22424	19/42	252.8	74	2965	91.3	92.8	93	0.75	0.84	0.88	65.3
45	60	225S/M	142.14	7.9	2.6	3.5	0.44846	24/53	411	82	2965	91.6	93.3	93.6	0.85	0.89	0.91	76.3
55	75	250S/M	177.67	8.5	2.8	3	0.50227	15/33	490	82	2965	91.8	93.5	93.8	0.84	0.89	0.91	93
75	100	280S/M	236.1	7.5	2.4	2.8	1.08256	44/97	655	83	2975	91.4	93.6	94.2	0.81	0.87	0.89	129
90	125	280S/M	295.12	8.1	2.3	2.8	1.27083	35/77	705	83	2975	92	94.1	94.5	0.79	0.87	0.9	153
110	150	315S/M	354.15	7.6	2.3	2.8	1.41204	40/88	780	84	2975	93	94.4	94.9	0.79	0.85	0.89	188
132	175	315S/M	413.87	7.5	2.3	2.8	1.64738	31/68	937	84	2970	93.2	94.8	95	0.82	0.88	0.9	223
132	180	315S/M	425.69	7.5	2.3	2.8	1.64738	31/68	937	84	2970	93.2	94.8	95	0.82	0.88	0.9	223
150	200	315S/M	472.99	7.9	2.2	2.7	2.11806	31/68	1010	84	2970	94.1	95.1	95.3	0.84	0.89	0.9	252
160	220	315S/M	520.29	7.3	2.2	2.5	2.11806	25/55	1010	84	2970	94.1	95	95.4	0.85	0.89	0.9	269
185	250	315S/M	590.25	8.2	2.4	2.8	2.11806	28/62	1010	84	2975	94.8	95.3	95.5	0.8	0.86	0.88	318
200	270	355M/L	635.33	7.2	1.8	2.6	4.82631	70/154	1490	81	2985	93.5	95	95.4	0.89	0.91	0.92	329
220	300	355M/L	705.93	8.5	2.2	3	5.17105	65/143	1650	81	2985	94.2	95.4	96	0.88	0.91	0.92	360
250	340	355M/L	800.05	7.8	2.2	2.5	5.74561	65/143	1750	81	2985	94.4	95.8	96	0.88	0.91	0.92	409
HIGH-OUTPUT DESIGN																		
0.37	0.5	63	1.28	5.2	3.1	2.9	0.00021	14/31	8	52	2740	67	71	71.3	0.57	0.7	0.79	0.948
0.75	1	71	2.5	6.2	3.1	3.1	0.00052	8/18	11	56	2810	69	73	74	0.65	0.76	0.84	1.74
1.5	2	80	5.07	6	3	2.7	0.00096	10/22	15.5	59	2770	77	78.5	77.7	0.7	0.82	0.87	3.2
1.5	2	90L	4.9	6.8	2.8	3	0.00205	14/31	20	64	2865	78.5	81.5	82	0.7	0.8	0.85	3.11
2.2	3	90S	7.39	7	3	3.2	0.0023	8/18	21	64	2850	81.5	83	83.1	0.64	0.77	0.84	4.55
3	4	90L*	9.93	6.2	3.2	3.1	0.00266	6/13	23.5	64	2830	81	82	82	0.55	0.68	0.78	6.77
4	5.5	100L	13.46	7.5	2.9	3.1	0.00672	7/15	33	67	2870	81	82.3	82.5	0.72	0.81	0.86	8.14
5.5	7.5	112M	18.36	7.7	2.5	3	0.00995	10/22	43	64	2870	86.5	87.5	87.5	0.8	0.87	0.9	10.1
7.5	10	112M*	24.47	7.6	3	3	0.00995	6/13	45	64	2870	86.5	87.5	87.5	0.59	0.72	0.81	15.3
11	15	132M	36.02	7.2	2.4	3.2	0.03178	13/29	74.4	68	2925	90	90.6	90.2	0.76	0.84	0.88	20
22	30	160L*	71.92	7.5	2.5	3	0.06766	6/13	124.1	70	2930	90	90.6	90.7	0.72	0.82	0.86	40.7
30	40	180L*	95.4	8.7	2.5	3.1	0.13622	9/20	183.6	70	2945	92	92.7	92.7	0.74	0.83	0.87	53.7
55	75	225S/M	177.67	8.5	2.8	3	0.50227	15/33	490	82	2965	91.8	93.5	93.8	0.84	0.89	0.91	93
75	100	250S/M	236.9	8.3	3	3.4	0.55609	10/22	490	82	2965	92.5	93.6	93.6	0.83	0.88	0.9	129
110	150	280S/M	354.15	7.6	2.3	2.8	1.41204	40/88	780	83	2975	93	94.4	94.9	0.79	0.85	0.89	188
132	175	280S/M	413.87	7.5	2.3	2.8	1.64738	31/68	937	83	2970	93.2	94.8	95	0.82	0.88	0.9	223
200	270	315S/M	636.4	7.9	2.2	2.9	2.16513	49/108	1045	84	2980	95.2	95.8	96.1	0.79	0.84	0.87	345

Notes:

*Class "F" insulation with ΔT105K

Standard voltage, connection and frequency: 220-240V Δ 50Hz

380-415V Y 50Hz

380-415V Δ 50Hz

660-690V Y 50Hz

The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current I _n (A)	Rated speed (rpm)	% of full load						Full load current I _n (A)
			Efficiency η			Power Factor (Cos φ)					Efficiency η			Power Factor (Cos φ)			
kW	HP	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
II Pole - 3000 rpm																	
0.12	0.16	2780	51	58	62	0.56	0.67	0.77	0.382	2820	46	55	59.5	0.49	0.59	0.68	0.413
0.18	0.25	2700	62	66.5	66	0.65	0.76	0.84	0.493	2755	58	64.5	66	0.55	0.67	0.77	0.493
0.25	0.33	2730	63.5	67.5	69.5	0.63	0.75	0.82	0.666	2790	59.5	65	68.5	0.54	0.66	0.75	0.677
0.37	0.5	2790	68.8	72.5	73.5	0.7	0.81	0.87	0.879	2825	66	71.5	73.6	0.6	0.73	0.82	0.853
0.55	0.75	2770	73.1	76	75.2	0.73	0.82	0.87	1.28	2820	71.1	75.7	76.2	0.64	0.75	0.84	1.2
0.75	1	2770	76.5	79.7	78.5	0.79	0.86	0.89	1.63	2810	75.5	80.1	80	0.73	0.82	0.87	1.5
1.1	1.5	2790	78.2	80.4	79.3	0.74	0.84	0.88	2.39	2825	76	79.8	79.8	0.64	0.76	0.84	2.28
1.5	2	2850	79.3	81.6	81.6	0.74	0.83	0.87	3.21	2875	77.5	81.5	82.1	0.66	0.77	0.83	3.06
2.2	3	2820	82.8	83.6	83.3	0.75	0.84	0.87	4.61	2850	81.5	83.6	84.3	0.64	0.76	0.83	4.37
3	4	2870	83.5	85.6	85.1	0.8	0.86	0.89	6.02	2890	82.8	85.6	85.6	0.74	0.84	0.87	5.6
4	5.5	2880	85.5	87.5	87.2	0.8	0.86	0.89	7.83	2900	84.5	87.4	88.2	0.72	0.82	0.87	7.25
5.5	7.5	2930	84.5	87.5	88.2	0.77	0.85	0.89	10.6	2940	83.5	86.8	88.2	0.69	0.8	0.85	10.2
7.5	10	2915	87	89	88.8	0.81	0.87	0.9	14.3	2930	86	88.8	89.3	0.73	0.83	0.87	13.4
9.2	12.5	2920	86	88.7	89	0.79	0.87	0.9	17.5	2935	85	88.3	89	0.71	0.81	0.86	16.7
11	15	2940	88.3	90.1	90.2	0.8	0.86	0.89	20.8	2950	87.3	90	90.4	0.74	0.83	0.87	19.5
15	20	2935	90.1	91.2	91	0.81	0.87	0.89	28.1	2950	89.1	91	91.2	0.72	0.81	0.87	26.3
18.5	25	2940	90.7	92	91.5	0.78	0.86	0.89	34.5	2950	90.1	91.8	92	0.73	0.83	0.86	32.5
22	30	2945	91	92.1	92	0.82	0.88	0.9	40.4	2955	90	91.9	92.1	0.75	0.84	0.87	38.2
30	40	2960	90.5	92.1	92.6	0.8	0.87	0.89	55.3	2970	89.5	91.8	92.7	0.73	0.83	0.87	51.8
37	50	2960	91.7	93	93	0.8	0.87	0.89	67.9	2965	90.8	92.6	93	0.7	0.81	0.86	64.4
45	60	2960	91.9	93.4	93.5	0.86	0.9	0.92	79.5	2970	91.5	93.3	93.9	0.84	0.88	0.9	74.1
55	75	2965	91.8	93.2	93.5	0.86	0.91	0.92	97.1	2970	91.6	93.5	94	0.82	0.88	0.91	89.5
75	100	2970	91.9	93.6	94.3	0.84	0.88	0.9	134	2980	91	93.6	94.2	0.78	0.85	0.88	126
90	125	2970	92.3	93.9	94.5	0.82	0.88	0.9	161	2975	91.5	94.1	94.5	0.77	0.86	0.89	149
110	150	2970	93.1	94.4	94.9	0.81	0.87	0.9	196	2975	92.2	94.4	94.8	0.75	0.83	0.88	183
132	175	2965	93.5	94.7	94.8	0.84	0.89	0.91	232	2970	93	94.8	95.2	0.8	0.87	0.9	214
132	180	2965	93.5	94.7	94.8	0.84	0.89	0.91	232	2970	93	94.8	95.2	0.8	0.87	0.9	214
150	200	2970	94.2	95	95.3	0.86	0.9	0.91	263	2975	94	95	95.3	0.82	0.88	0.9	243
160	220	2970	94.2	95	95.3	0.86	0.9	0.91	280	2975	94	95	95.4	0.83	0.88	0.89	262
185	250	2970	95	95.4	95.5	0.82	0.87	0.89	331	2975	94.5	95.2	95.5	0.78	0.84	0.87	310
200	270	2980	93.7	95	95.3	0.9	0.92	0.92	347	2985	93.3	94.9	95.4	0.88	0.9	0.91	321
220	300	2985	94.5	95.5	95.9	0.89	0.92	0.93	375	2990	93.9	95.3	96	0.86	0.9	0.92	347
250	340	2980	94.5	95.8	96	0.9	0.92	0.93	425	2985	94.3	95.8	96.1	0.87	0.91	0.92	393
HIGH-OUTPUT DESIGN																	
0.37	0.5	2710	69.5	71.7	71	0.62	0.75	0.83	0.954	2765	65	70	71	0.52	0.66	0.76	0.954
0.75	1	2790	71	74	74	0.7	0.8	0.87	1.77	2830	67	71.5	73.5	0.6	0.71	0.8	1.77
1.5	2	2750	78	78.5	76.5	0.75	0.85	0.89	3.35	2790	76	78.5	78.5	0.65	0.78	0.85	3.13
1.5	2	2850	79.3	81.6	81.6	0.74	0.83	0.87	3.21	2875	77.5	81.5	82.1	0.66	0.77	0.83	3.06
2.2	3	2830	82.3	83.3	83	0.71	0.82	0.87	4.63	2860	80.2	82.5	83.1	0.58	0.72	0.8	4.6
3	4	2800	82	82.5	81.5	0.61	0.74	0.81	6.9	2845	80	81.5	81.5	0.5	0.64	0.74	6.92
4	5.5	2850	81.5	82.5	82	0.77	0.84	0.88	8.42	2890	80.3	82	82.5	0.68	0.78	0.84	8.03
5.5	7.5	2860	87	87.5	87.2	0.83	0.89	0.91	10.5	2880	86	87.5	87.7	0.77	0.85	0.89	9.8
7.5	10	2850	86.5	87	87	0.66	0.79	0.85	15.4	2885	85	87	87	0.53	0.67	0.76	15.8
11	15	2920	89.5	90.8	90.2	0.8	0.87	0.9	20.6	2930	89.3	90.5	90.2	0.72	0.82	0.86	19.7
22	30	2925	90.5	90.7	90.5	0.77	0.85	0.88	42	2935	89.5	90.5	90.7	0.68	0.79	0.84	40.2
30	40	2940	92	92.3	92.3	0.78	0.84	0.88	56.1	2950	92	92.7	92.7	0.71	0.8	0.85	53
55	75	2965	91.8	93.2	93.5	0.86	0.91	0.92	97.1	2970	91.6	93.5	94	0.82	0.88	0.91	89.5
75	100	2960	92.6	93.3	93.3	0.85	0.89	0.91	134	2965	92.5	93.7	94.2	0.81	0.87	0.9	123
110	150	2970	93.1	94.4	94.9	0.81	0.87	0.9	196	2975	92.2	94.4	94.8	0.75	0.83	0.88	183
132	175	2965	93.5	94.7	94.8	0.84	0.89	0.91	232	2970	93	94.8	95.2	0.8	0.87	0.9	214
200	270	2975	95.5	96	96.2	0.81	0.86	0.89	355	2980	95	95.6	96	0.73	0.82	0.86	337

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _L /I _n	Locked rotor torque T _L /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
kW	HP											% of full load						
												Efficiency η			Power Factor (Cos φ)			
												50	75	100	50	75	100	
IV Pole - 1500 rpm																		
0.12	0.16	63	0.79	4.2	2.4	2.5	0.00045	20/44	7	44	1415	45	54	58.5	0.46	0.56	0.67	0.442
0.18	0.25	63	1.25	4	2.2	2.5	0.00056	23/51	7.3	44	1400	53.8	59.5	62	0.52	0.63	0.72	0.582
0.25	0.33	71	1.64	5	3	3.1	0.00079	48/106	10.7	43	1410	68.5	71.5	73	0.5	0.61	0.7	0.706
0.37	0.5	71	2.52	4.4	2.7	2.8	0.00079	37/81	10.9	43	1395	68	72	73.5	0.48	0.6	0.7	1.04
0.55	0.75	80	3.68	6	2.6	2.8	0.00242	17/37	14	44	1430	69	73	75	0.56	0.69	0.78	1.36
0.75	1	80	4.96	5.5	2.4	2.6	0.00294	14/31	14.8	44	1415	73.5	76.2	76.2	0.62	0.74	0.83	1.71
1.1	1.5	90S	7.37	6.5	3	3	0.00504	13/29	20	49	1430	76	80	80.6	0.57	0.69	0.78	2.53
1.5	2	90L	9.89	6.2	2.7	2.7	0.00672	12/26	23	49	1420	80.3	82	81.7	0.64	0.77	0.83	3.19
2.2	3	100L	14.84	6.7	2.7	2.9	0.00842	14/31	25.1	53	1420	81	82.3	83	0.65	0.78	0.83	4.61
3	4	100L	19.93	6.5	2.7	2.7	0.00995	10/22	34	53	1410	83.6	85	84.7	0.68	0.79	0.86	5.94
4	5.5	112M	27.02	7.5	2.7	2.8	0.01875	11/26	45.1	56	1430	86	87.4	87.1	0.7	0.81	0.87	7.62
5.5	7.5	132S	35.96	8	2.4	3	0.04652	11/24	62	60	1465	85.4	87.7	88.5	0.68	0.79	0.85	10.6
7.5	10	132M	47.95	8	2.5	2.8	0.05427	8/18	64.5	60	1465	86.4	88.4	88.6	0.7	0.8	0.86	14.2
9.2	12.5	160M	60.34	6	2.2	2.4	0.06524	15/33	95	67	1455	86	87.7	88.8	0.69	0.79	0.84	17.8
11	15	160M	72.41	6	2.3	2.5	0.08029	16/35	98.8	67	1455	87.6	89.4	89.9	0.7	0.79	0.84	21
15	20	160L	96.55	6	2.3	2.4	0.10539	13/29	117.9	67	1455	89	90.4	90.6	0.69	0.79	0.84	28.4
18.5	25	180M	119.46	7	2.7	2.8	0.17939	18/40	163.4	64	1470	89.8	91.5	92.1	0.68	0.79	0.84	34.5
22	30	180L	143.35	7.5	2.8	2.8	0.21528	14/31	176.7	64	1470	91	92.2	92.4	0.67	0.78	0.83	41.4
30	40	200L	190.48	6.5	2.2	2.5	0.33095	17/37	239.7	69	1475	91.8	93	93	0.75	0.82	0.85	54.8
37	50	225S/M	237.3	7.2	2.3	2.7	0.62988	20/44	350	70	1480	91.2	92.2	92.8	0.76	0.85	0.88	65.4
45	60	225S/M	285.72	7	2.3	2.7	0.76985	16/35	382	70	1475	91	92.9	93.5	0.76	0.85	0.88	78.9
55	75	250S/M	357.15	7	2.3	2.6	0.97981	16/35	460	70	1475	93	93.5	93.7	0.78	0.86	0.89	95.2
75	100	280S/M	472.99	6.7	2.1	2.4	2.32858	44/97	735	76	1485	92.4	93.8	94.3	0.81	0.86	0.88	130
90	125	280S/M	591.24	7.1	2.4	2.5	2.56947	31/68	802	76	1485	92.3	93.9	94.2	0.8	0.86	0.88	157
110	150	315S/M	709.49	7.1	2.3	2.6	2.81036	27/59	865	77	1485	92.8	94.4	94.4	0.78	0.85	0.88	191
132	175	315S/M	827.74	7.3	2.5	2.6	3.77391	31/68	1010	77	1485	93.3	94.7	95.1	0.78	0.85	0.88	228
132	180	315S/M	851.39	7.3	2.5	2.6	3.77391	31/68	1010	77	1485	93.3	94.7	95.1	0.78	0.85	0.88	228
150	200	315S/M	945.99	7.5	2.4	2.5	3.77391	22/48	1010	77	1485	93	95	95.3	0.77	0.84	0.86	264
160	220	315S/M	1044.1	7	2.4	2.7	3.77391	22/48	1010	77	1480	93.3	95.1	95.5	0.75	0.83	0.87	278
185	250	315S/M*	1182.49	7.3	2.3	2.5	3.77391	15/33	1010	77	1485	93.5	95.3	95.5	0.75	0.82	0.86	325
200	270	355M/L	1272.8	6.6	2.3	2.2	6.34151	44/97	1525	79	1490	94.8	95.2	95.4	0.78	0.85	0.87	348
220	300	355M/L	1414.22	7	2.1	2.3	6.88507	39/86	1525	79	1490	94.2	95.2	95.4	0.8	0.86	0.88	378
250	340	355M/L	1602.78	6.9	2.2	2.5	7.57882	36/79	1615	79	1490	94.3	95.2	95.8	0.8	0.86	0.88	428
260	350	355M/L	1649.92	6.5	2.2	2.3	7.57882	30/66	1615	79	1490	94.3	95.2	95.8	0.8	0.86	0.88	445
280	380	355M/L	1791.35	7.1	2.2	2.4	9.0224	39/86	1770	79	1490	95	95.7	95.8	0.81	0.87	0.88	479
300	400	355M/L	1885.63	6.7	2.2	2.4	9.92464	47/103	1770	79	1490	94.5	95.6	95.8	0.81	0.87	0.89	508
315	430	355M/L	2027.05	6.7	2.2	2.4	9.92464	42/92	1770	79	1490	94.8	95.9	96.2	0.79	0.86	0.88	537
330	450	355M/L	2121.33	6.5	2.3	2.3	10.82688	32/70	1865	79	1490	95	96	96.2	0.81	0.87	0.89	556
355	482	355M/L*	2272.18	7.9	2.4	2.5	11.6813	28/62	1865	79	1490	95.8	96.3	96.3	0.8	0.87	0.88	605
HIGH-OUTPUT DESIGN																		
0.25	0.33	63	1.64	5	3.1	3.1	0.00067	17/37	8.5	44	1415	52	60	62	0.44	0.54	0.65	0.895
0.55	0.75	71	3.8	5	2.8	2.9	0.00096	19/42	12	43	1385	66	70.5	72	0.45	0.58	0.68	1.62
1.5	2	90S	10	5.8	2.6	2.6	0.00504	8/18	21	49	1405	73	75	76.2	0.62	0.76	0.82	3.46
2.2	3	90L	14.94	5.8	2.7	2.5	0.00672	8/18	23	49	1410	75	76.5	76.5	0.57	0.71	0.8	5.19
4	5.5	100L*	27.79	6.7	2.6	2.6	0.01072	7/15	34	53	1390	81.5	82.2	82	0.64	0.76	0.83	8.483
5.5	7.5	112M*	36.33	6.5	2.5	2.6	0.01875	8/18	44.9	56	1450	84	85.7	85.7	0.54	0.66	0.75	12.4
7.5	10	132S	47.95	8	2.5	2.8	0.05427	8/18	68	60	1465	86.4	88.4	88.6	0.7	0.8	0.86	14.2
9.2	12.5	132M	59.93	8	2.5	3	0.06202	7/15	74	60	1465	86	88.2	88.5	0.68	0.8	0.85	17.7
11	15	132M/L*	72.41	7.5	2.4	2.7	0.06978	5/11	83	60	1455	87	88.4	88	0.7	0.81	0.88	20.5
15	20	160M	96.55	6	2.3	2.4	0.10539	13/29	121	67	1455	89	90.4	90.6	0.69	0.79	0.84	28.4
18.5	25	160L*	120.69	6	2.4	2.4	0.11542	12/26	121	67	1455	88.5	90	90	0.64	0.76	0.82	36.2
30	40	180L*	192.44	7.2	3	2.9	0.2153	7/15	177.2	64	1460	89	90.5	90.5	0.61	0.73	0.8	59.8
30	40	200M	190.48	6.5	2.2	2.5	0.33095	17/37	244	69	1475	91.8	93	93	0.75	0.82	0.85	54.8
37	50	200L	238.91	7	2.3	2.5	0.38611	14/31	260	69	1470	91.5	92.5	92.3	0.73	0.82	0.86	67.3
45	60	200L*	285.72	7.1	2.3	2.5	0.38611	10/22	258.9	69	1475	91.3	92.4	92.5	0.65	0.76	0.81	86.7
55	75	225S/M	357.15	7	2.3	2.6	0.97981	16/35	407.2	70	1475	93	93.5	93.7	0.78	0.86	0.89	95.2
75	100	250S/M	474.59	7.2	2.4	2.6	1.15478	12/26	510	70	1480	92.5	93.6	93.7	0.77	0.85	0.87	133
110	150	280S/M	709.49	7.1	2.3	2.6	2.81036	27/59	865	76	1485	92.8	94.4	94.4	0.78	0.85	0.88	191
132	175	280S/M	827.74	7.5	2.3	2.6	3.37243	13/29	940	76	1485	93	94	94.6	0.78	0.85	0.88	229
200	270	315S/M*	1281.4	6.7	2.3	2.6	3.77391	17/37	1010	77	1480	94.2	94.8	95.4	0.74	0.82	0.85	356

Notes:
 *Class "F" insulation with ΔT105K
 Standard voltage, connection and frequency: 220-240V Δ 50Hz 380-415V Δ 50Hz
 380-415V Y 50Hz 660-690V Y 50Hz
 The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current I _n (A)	Rated speed (rpm)	% of full load						Full load current I _n (A)
			Efficiency η			Power Factor (Cos φ)					Efficiency η			Power Factor (Cos φ)			
kW	HP	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
IV Pole - 1500 rpm																	
0.12	0.16	1405	47	55	59	0.49	0.6	0.7	0.441	1425	42	52	58	0.43	0.52	0.63	0.457
0.18	0.25	1385	55.8	60.5	62.5	0.55	0.67	0.76	0.576	1410	51	57.5	61	0.48	0.59	0.69	0.595
0.25	0.33	1400	70	72	72.5	0.53	0.65	0.72	0.728	1420	67	71	73	0.47	0.58	0.68	0.701
0.37	0.5	1385	70	73	73.6	0.52	0.65	0.73	1.05	1405	65	71	73.2	0.44	0.56	0.67	1.05
0.55	0.75	1420	70	73.5	75	0.61	0.73	0.81	1.38	1440	67	72.5	74.6	0.53	0.66	0.75	1.37
0.75	1	1400	75	76.5	76	0.66	0.78	0.85	1.76	1430	72	76	76.2	0.59	0.71	0.81	1.69
1.1	1.5	1415	77.5	80.5	80.5	0.63	0.74	0.81	2.56	1435	74.5	79	80.3	0.53	0.64	0.74	2.58
1.5	2	1410	81.2	82.2	81	0.68	0.8	0.85	3.31	1430	79.3	81.5	81.8	0.61	0.74	0.81	3.15
2.2	3	1410	81.5	82	81.7	0.69	0.81	0.85	4.81	1430	80.5	82.3	83	0.61	0.75	0.81	4.55
3	4	1400	84	84.9	84.2	0.72	0.82	0.87	6.22	1420	83.2	85.1	84.9	0.65	0.77	0.84	5.85
4	5.5	1420	86.5	87.5	86.7	0.74	0.84	0.89	7.88	1440	85.2	87.2	86.7	0.67	0.78	0.84	7.64
5.5	7.5	1460	86.7	88.3	88.3	0.73	0.82	0.87	10.9	1470	84.2	87	88.4	0.64	0.75	0.83	10.4
7.5	10	1465	87	88.6	88.4	0.75	0.84	0.88	14.6	1470	85.6	88	88.6	0.65	0.77	0.83	14.2
9.2	12.5	1450	86.5	87.8	88.2	0.73	0.82	0.85	18.6	1460	85.5	87.4	88.8	0.64	0.76	0.82	17.6
11	15	1450	88.3	89.6	89.2	0.74	0.82	0.85	22	1460	86.8	89	89.8	0.65	0.76	0.82	20.8
15	20	1450	89.5	90.5	90.1	0.73	0.82	0.86	29.4	1460	88.4	90.3	90.6	0.67	0.78	0.83	27.8
18.5	25	1465	90.3	91.7	91.7	0.72	0.81	0.85	36.1	1470	89.3	91.3	92.1	0.65	0.76	0.82	34.1
22	30	1465	91.5	92.4	92.3	0.72	0.81	0.85	42.6	1475	90.5	92	92.5	0.63	0.75	0.81	40.8
30	40	1470	92.2	93	92.6	0.78	0.84	0.86	57.2	1480	91.5	93	93.2	0.72	0.8	0.84	53.3
37	50	1475	91.6	92.4	92.5	0.79	0.86	0.89	68.3	1480	90.8	92.1	92.9	0.72	0.83	0.87	63.7
45	60	1475	91.3	92.8	93.5	0.8	0.87	0.89	82.2	1480	91	92.9	93.5	0.72	0.83	0.87	77
55	75	1475	92.8	93.5	93.4	0.83	0.88	0.91	98.3	1480	92.5	93.4	93.6	0.77	0.85	0.89	91.9
75	100	1480	92.8	93.9	94.2	0.83	0.87	0.88	137	1485	92.2	93.8	94.3	0.8	0.85	0.87	127
90	125	1480	92.6	94.1	94.2	0.82	0.87	0.89	163	1485	92	93.9	94.2	0.78	0.85	0.88	151
110	150	1480	92.8	93.6	94.2	0.8	0.86	0.88	202	1485	92.8	94.4	94.5	0.76	0.83	0.87	186
132	175	1480	93.5	94.9	95.1	0.81	0.86	0.89	237	1485	93.3	94.7	95.1	0.76	0.84	0.87	222
132	180	1480	93.5	94.9	95.1	0.81	0.86	0.89	237	1485	93.3	94.7	95.1	0.76	0.84	0.87	222
150	200	1480	93.3	94.6	95.2	0.79	0.85	0.87	275	1485	92.9	95	95.3	0.75	0.83	0.85	258
160	220	1480	93	95	95.4	0.78	0.85	0.88	290	1485	94.2	95.1	95.5	0.73	0.82	0.86	271
185	250	1480	93.6	95.1	95.5	0.77	0.83	0.87	338	1485	94	95.2	95.5	0.72	0.8	0.85	317
200	270	1485	94.8	95	95.2	0.8	0.86	0.88	363	1490	94.5	95.1	95.3	0.76	0.84	0.86	339
220	300	1485	94.5	95.2	95.4	0.82	0.87	0.89	394	1490	94	95	95.5	0.78	0.85	0.87	368
250	340	1485	94.5	95.2	95.7	0.82	0.87	0.89	446	1490	94.1	95	95.7	0.77	0.85	0.87	418
260	350	1485	94.5	95.2	95.7	0.82	0.87	0.89	464	1490	94.1	95	95.7	0.77	0.85	0.87	434
280	380	1485	95.1	95.6	95.7	0.83	0.88	0.89	499	1490	95	95.6	95.8	0.79	0.86	0.87	467
300	400	1485	94.7	95.6	95.6	0.83	0.88	0.89	536	1490	94.3	95.5	95.7	0.79	0.86	0.88	496
315	430	1485	95	95.8	96.1	0.83	0.87	0.89	560	1490	94.5	95.8	96.2	0.76	0.84	0.87	524
330	450	1485	95.2	96	96.1	0.83	0.88	0.9	580	1490	94.8	95.8	96.2	0.79	0.86	0.88	542
355	482	1490	95.9	96.2	96.2	0.82	0.88	0.89	630	1490	95.7	96.3	96.3	0.78	0.86	0.88	583
HIGH-OUTPUT DESIGN																	
0.25	0.33	1405	54	61	63	0.49	0.6	0.7	0.861	1420	49	58	61	0.41	0.51	0.6	0.95
0.55	0.75	1370	69	72	72.5	0.51	0.63	0.72	1.6	1400	62	68	71	0.42	0.53	0.64	1.68
1.5	2	1385	72	74	75	0.68	0.8	0.85	3.57	1410	73	74.5	75.5	0.58	0.72	0.8	3.45
2.2	3	1390	76	77	76	0.65	0.75	0.83	5.3	1420	73	76	76.5	0.53	0.66	0.76	5.26
4	5.5	1380	82	82	81	0.69	0.8	0.85	8.827	1400	81	82.1	82.5	0.6	0.73	0.81	8.327
5.5	7.5	1445	85	86	85.7	0.6	0.72	0.79	12.3	1455	82	85.7	85.7	0.49	0.62	0.71	12.6
7.5	10	1465	87	88.6	88.4	0.75	0.84	0.88	14.6	1470	85.6	88	88.6	0.65	0.77	0.83	14.2
9.2	12.5	1460	86.7	88.2	88.2	0.74	0.83	0.87	18.2	1465	85.3	87.7	88.2	0.63	0.76	0.82	17.7
11	15	1450	87.5	88.4	88	0.75	0.84	0.89	21.4	1460	86.5	88.4	88.4	0.67	0.79	0.86	20.1
15	20	1450	89.5	90.5	90.1	0.73	0.82	0.86	29.4	1460	88.4	90.3	90.6	0.67	0.78	0.83	27.8
18.5	25	1450	89	90	89.4	0.7	0.8	0.84	37.4	1460	88	90	90	0.6	0.73	0.8	35.7
30	40	1460	89.5	90.3	90.3	0.66	0.77	0.83	60.7	1465	88.5	90.5	90.6	0.59	0.71	0.78	59
30	40	1470	92.2	93	92.6	0.78	0.84	0.86	57.2	1480	91.5	93	93.2	0.72	0.8	0.84	53.3
37	50	1465	92	92.5	92	0.77	0.84	0.87	70.2	1475	91	92.5	92.5	0.69	0.8	0.85	65.5
45	60	1470	91.5	92.4	92.3	0.69	0.79	0.83	89.2	1475	91.1	92.3	92.5	0.61	0.73	0.79	85.7
55	75	1475	92.8	93.5	93.4	0.83	0.88	0.91	98.3	1480	92.5	93.4	93.6	0.77	0.85	0.89	91.9
75	100	1475	92.6	93.4	93.5	0.8	0.86	0.88	138	1480	92.6	93.7	93.6	0.74	0.84	0.87	128
110	150	1480	92.8	93.6	94.2	0.8	0.86	0.88	202	1485	92.8	94.4	94.5	0.76	0.83	0.87	186
132	175	1480	93	93.5	94.3	0.81	0.86	0.89	241	1485	92.2	94.7	94.7	0.76	0.84	0.87	223
200	270	1480	94.5	95	95.4	0.78	0.84	0.86	370	1485	93.8	94.6	95.4	0.7	0.8	0.84	347

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _L /I _n	Locked rotor torque T _L /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											Efficiency η		Power Factor (Cos φ)				
												50	75	100	50	75	100	
VI Pole - 1000 rpm																		
0.12	0.16	63	3.5	1.23	2.2	2.1	0.00067	41/90	8	43	910	42	50	54.5	0.46	0.55	0.65	0.489
0.18	0.25	71	3.3	1.94	2	2.2	0.00079	50/110	10.5	43	905	46	54	57	0.46	0.55	0.62	0.735
0.25	0.33	71	3.5	2.58	2.2	2.2	0.00096	43/95	11.5	43	900	53	60.5	64	0.4	0.5	0.57	0.989
0.37	0.5	80	4.5	3.78	2.5	2.5	0.00242	12/26	14	43	930	54	62.5	65	0.45	0.57	0.67	1.23
0.55	0.75	80	4.5	5.66	2.3	2.3	0.00311	10/22	15.5	43	930	60	65	67	0.5	0.63	0.73	1.62
0.75	1	90S	4.8	7.63	2.1	2.1	0.00504	16/35	20.8	45	920	70	72.6	72.4	0.54	0.67	0.76	1.97
1.1	1.5	90L	4.8	11.39	2.3	2.2	0.00672	14/31	20.9	45	925	71	75.2	75.2	0.5	0.64	0.75	2.82
1.5	2	100L	4.8	14.94	2.2	2.5	0.01121	18/40	29	44	940	74	77.3	77.5	0.53	0.66	0.74	3.78
2.2	3	112M	5	22.42	2.2	2.3	0.01682	14/31	34.5	48	940	77.5	80.5	80.1	0.53	0.66	0.74	5.36
3	4	132S	5.3	29.27	2	2.2	0.03489	20/44	55	52	960	80	82.7	82.5	0.58	0.7	0.77	6.82
4	5.5	132M	6	40.24	2.1	2.3	0.05039	18/40	65	52	960	83.6	85.5	85.8	0.59	0.7	0.77	8.74
5.5	7.5	132M	6.4	54.87	2.3	2.4	0.06202	14/31	69	52	960	84	85.8	85.8	0.54	0.66	0.74	12.5
7.5	10	160M	6.1	72.41	2.3	2.6	0.12209	17/37	97.3	56	970	87	88.2	88	0.62	0.74	0.81	15.2
9.2	12.5	160L	6.5	90.51	2.3	2.8	0.14364	12/26	115	56	970	86.5	88	87.6	0.61	0.74	0.81	18.7
11	15	160L	6.6	108.62	2.4	2.9	0.17595	13/29	122.8	56	970	87.2	88.3	88.3	0.62	0.75	0.82	21.9
15	20	180L	7.5	145.57	2.5	2.6	0.30338	9/20	181	56	965	89.1	90.1	89.8	0.8	0.88	0.91	26.5
18.5	25	200L	6	180.1	2.1	2.3	0.3767	15/33	219	58	975	89.7	90.7	90.2	0.74	0.82	0.86	34.4
22	30	200L	6	216.12	2.3	2.4	0.41258	14/31	235	58	975	89	90.9	91.3	0.7	0.79	0.84	41.4
30	40	225S/M	7.2	285.24	2.6	2.7	0.98842	20/44	366	61	985	90.5	91.8	91.8	0.77	0.84	0.87	54.2
37	50	250S/M	7.5	358.37	2.7	2.6	1.22377	18/40	413.4	61	980	90.2	92.4	92.5	0.77	0.85	0.87	66.4
45	60	280S/M	6.8	427.86	2.4	2.6	2.29824	24/53	610	66	985	90.5	92.3	92.6	0.68	0.78	0.83	84.5
55	75	280S/M	6.5	534.82	2.3	2.5	2.64298	23/51	655	66	985	91.6	93.2	93.5	0.71	0.82	0.85	100
75	100	315S/M	6.7	713.09	2.3	2.5	3.44737	20/44	775	69	985	91.6	93.5	93.7	0.71	0.81	0.85	136
90	125	315S/M	6.3	891.37	2.1	2.3	3.67719	18/40	818	69	985	92.5	94	93.9	0.71	0.81	0.85	163
110	150	315S/M	6.4	1069.64	2.3	2.4	5.28596	18/40	990	69	985	93.4	94.4	94.5	0.71	0.8	0.84	200
132	175	315S/M*	6.3	1247.91	2.1	2.2	5.28596	13/29	990	69	985	93.5	94.7	94.7	0.72	0.81	0.85	237
132	180	315S/M*	6.3	1283.57	2.1	2.2	5.28596	13/29	990	69	985	93.5	94.7	94.7	0.72	0.81	0.85	237
132	180	355M/L	6.1	1277.08	2	2.3	8.10159	90/198	1385	73	990	92.5	94.7	94.7	0.65	0.75	0.8	251
150	200	355M/L	6.2	1411.85	2	2.1	9.05472	81/178	1460	73	995	92.8	94.9	95.3	0.68	0.76	0.81	280
160	220	355M/L	6.2	1560.88	1.9	2.1	9.53128	72/158	1485	73	990	93	95	95.3	0.67	0.77	0.82	295
185	250	355M/L	6	1773.73	1.9	2.1	10.24613	76/167	1530	73	990	93	94.2	94.8	0.68	0.76	0.81	348
200	270	355M/L	6.3	1915.63	2.1	2.3	12.39067	85/187	1700	73	990	93.5	94.5	94.8	0.7	0.78	0.81	376
220	300	355M/L	6.5	2128.47	2	2.3	13.82036	72/158	1795	73	990	93.4	94.8	95.3	0.67	0.77	0.8	417
250	340	355M/L	6.1	2400.15	2.2	2.2	14.77349	64/141	1830	73	995	94	95.1	95.6	0.7	0.79	0.82	460
260	350	355M/L	6.1	2470.74	2.1	2.1	14.77349	64/141	1830	73	995	94	95.1	95.6	0.7	0.79	0.82	479
280	380	355M/L	6	2696.07	2.1	2.2	14.77349	54/119	1830	73	990	94.3	95.2	95.4	0.68	0.77	0.8	530
300	400	355M/L*	6.4	2837.96	2.1	2.1	14.77349	39/86	1920	73	990	94	95.5	95.6	0.63	0.73	0.79	573
315	430	355M/L*	6	3050.81	1.9	1.9	15.48834	38/84	1950	73	990	94.3	95.8	95.9	0.69	0.78	0.81	585
HIGH-OUTPUT DESIGN																		
3	4	112M	6.3	29.27	2.6	2.6	0.02617	10/22	46	48	960	78.5	81.7	84	0.53	0.65	0.73	7.06
4	5.5	132S	6	40.24	2.1	2.3	0.05039	18/40	65	52	960	83.6	85.5	85.8	0.59	0.7	0.77	8.74
37	50	225S/M	7.5	358.37	2.7	2.6	1.22377	18/40	440	61	980	90.2	92.4	92.5	0.77	0.85	0.87	66.4
45	60	250S/M	8	430.04	2.8	2.8	1.55324	18/40	490	61	980	91	92.3	92.6	0.76	0.84	0.87	79.7
75	100	280S/M	6.7	713.09	2.3	2.5	3.44737	20/44	775	66	985	91.6	93.5	93.7	0.71	0.81	0.85	136
90	125	280S/M	6.3	891.37	2.1	2.3	3.67719	18/40	818	66	985	92.5	94	93.9	0.71	0.81	0.85	163

Notes:
 *Class "F" insulation with ΔT105K
 Standard voltage, connection and frequency: 220-240V Δ 50Hz 380-415V Δ 50Hz 660-690V Y 50Hz
 The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current I _n (A)	Rated speed (rpm)	% of full load						Full load current I _n (A)
			Efficiency η			Power Factor (Cos φ)					Efficiency η			Power Factor (Cos φ)			
kW	HP	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
VI Pole - 1000 rpm																	
0.12	0.16	900	45	52	55.5	0.49	0.58	0.68	0.483	915	39	48	53	0.43	0.52	0.62	0.508
0.18	0.25	895	49	55.5	57.5	0.49	0.59	0.65	0.732	910	43	52	56.5	0.44	0.52	0.59	0.751
0.25	0.33	890	56	63	65.3	0.44	0.55	0.61	0.954	905	50	58	62.5	0.37	0.46	0.54	1.03
0.37	0.5	920	56	64	66	0.49	0.62	0.72	1.18	935	52	61	64	0.42	0.54	0.64	1.26
0.55	0.75	920	62	65.8	68	0.54	0.67	0.77	1.6	935	58	64	66	0.47	0.59	0.68	1.7
0.75	1	910	71.5	72.8	71.5	0.58	0.71	0.79	2.02	930	68.5	72.4	72.4	0.5	0.64	0.73	1.97
1.1	1.5	915	72	75.5	74.8	0.55	0.69	0.78	2.86	935	70	75.2	75.2	0.46	0.61	0.72	2.83
1.5	2	930	75	77.5	77	0.58	0.7	0.76	3.89	950	73	77.3	77.6	0.5	0.63	0.71	3.79
2.2	3	930	79	80.8	79.7	0.58	0.7	0.76	5.52	950	76	80.3	80.5	0.5	0.63	0.72	5.28
3	4	955	81	83	82	0.61	0.72	0.79	7.04	965	79	82.5	82.6	0.53	0.66	0.74	6.83
4	5.5	955	84.5	85.7	85.4	0.61	0.72	0.79	9.01	965	82.6	85.3	85.9	0.56	0.67	0.75	8.64
5.5	7.5	955	85	86.1	85.6	0.58	0.7	0.77	12.7	965	83	85.5	86	0.5	0.62	0.71	12.5
7.5	10	965	87.5	88.4	87.5	0.66	0.78	0.83	15.7	970	86.5	88	88	0.58	0.71	0.79	15
9.2	12.5	970	87.5	88.2	87.5	0.65	0.76	0.82	19.5	975	85.5	87.8	87.5	0.56	0.71	0.79	18.5
11	15	970	88	88.5	88	0.67	0.78	0.84	22.6	975	86.5	88	88.3	0.58	0.72	0.8	21.7
15	20	960	89	90	89.5	0.82	0.89	0.91	28	970	89	90.5	90.5	0.78	0.87	0.9	25.6
18.5	25	970	90	90.5	89.8	0.76	0.84	0.87	36	980	89.3	90.5	90.5	0.72	0.8	0.84	33.9
22	30	970	89.6	91	91.2	0.74	0.82	0.85	43.1	980	88.4	90.7	91.3	0.66	0.76	0.82	40.9
30	40	980	91	91.8	91.6	0.8	0.86	0.88	56.5	985	90	91.8	92.2	0.73	0.81	0.86	52.6
37	50	980	90.5	92.5	92.4	0.8	0.86	0.88	69.1	985	89.5	92.4	92.6	0.73	0.82	0.86	64.6
45	60	985	91	92.3	92.6	0.72	0.81	0.85	86.9	990	90	92.3	92.7	0.64	0.76	0.82	82.4
55	75	985	92	93.2	93.4	0.74	0.84	0.87	103	990	91.2	93.2	93.6	0.68	0.8	0.84	97.3
75	100	985	92	93.5	93.5	0.74	0.82	0.86	142	990	91.2	93.5	93.8	0.69	0.8	0.84	132
90	125	985	92.8	93.9	93.6	0.74	0.83	0.86	170	990	92.2	93.9	93.9	0.69	0.79	0.84	159
110	150	985	93.6	94.3	94.3	0.74	0.82	0.85	208	985	93.2	94.5	94.6	0.69	0.79	0.83	195
132	175	980	93.7	94.5	94.4	0.75	0.83	0.86	247	985	93.3	94.7	94.7	0.7	0.8	0.84	231
132	180	980	93.7	94.5	94.4	0.75	0.83	0.86	247	985	93.3	94.7	94.7	0.7	0.8	0.84	231
132	180	990	93	94.7	94.5	0.7	0.8	0.82	259	995	92	94.7	94.7	0.6	0.7	0.77	252
150	200	990	93.3	94.9	95.2	0.72	0.79	0.83	288	995	92.3	94.9	95.3	0.64	0.73	0.79	277
160	220	990	93.5	95.2	95.2	0.73	0.8	0.84	304	990	92.5	94.9	95.4	0.63	0.74	0.8	292
185	250	990	93.5	94.4	94.8	0.73	0.8	0.83	357	990	92.5	94	94.8	0.63	0.72	0.79	344
200	270	990	94	94.7	94.8	0.74	0.81	0.83	386	990	93	94.3	94.8	0.66	0.75	0.79	372
220	300	990	93.8	95	95.3	0.72	0.8	0.82	428	995	93	94.6	95.3	0.62	0.74	0.79	407
250	340	995	94.3	95.2	95.5	0.74	0.81	0.83	479	995	93.7	95	95.8	0.67	0.77	0.81	448
260	350	990	94.3	95.2	95.5	0.74	0.81	0.83	498	995	93.7	95	95.8	0.67	0.77	0.81	466
280	380	985	94.7	95.3	95.4	0.73	0.8	0.81	551	990	93.9	95.1	95.3	0.64	0.74	0.79	517
300	400	990	94.7	95.7	95.7	0.68	0.77	0.81	588	995	93.3	95.3	95.5	0.58	0.7	0.77	568
315	430	985	94.8	96	95.8	0.73	0.8	0.82	609	990	93.8	95.6	95.8	0.65	0.76	0.8	572
HIGH-OUTPUT DESIGN																	
3	4	955	80	82	83.9	0.59	0.7	0.76	7.15	965	76.5	81.4	84	0.48	0.6	0.69	7.2
4	5.5	955	84.5	85.7	85.4	0.61	0.72	0.79	9.01	965	82.6	85.3	85.9	0.56	0.67	0.75	8.64
37	50	980	90.5	92.5	92.4	0.8	0.86	0.88	69.1	985	89.5	92.4	92.6	0.73	0.82	0.86	64.6
45	60	980	91.5	92.3	92.5	0.79	0.86	0.88	83	985	90.5	92.3	92.7	0.73	0.82	0.86	77.6
75	100	985	92	93.5	93.5	0.74	0.82	0.86	142	990	91.2	93.5	93.8	0.69	0.8	0.84	132
90	125	985	92.8	93.9	93.6	0.74	0.83	0.86	170	990	92.2	93.9	93.9	0.69	0.79	0.84	159

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _L /I _n	Locked rotor torque T _L /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											Efficiency η			Power Factor (Cos φ)			
												50	75	100	50	75	100	
VIII Pole - 750 rpm																		
0.12	0.16	71	1.64	2.5	1.9	2.1	0.00079	44/97	10.7	41	685	36	44.2	47.2	0.4	0.49	0.56	0.655
0.18	0.25	80	2.51	3.1	1.9	2.1	0.00242	16/35	13.7	42	700	40	49	54.2	0.43	0.53	0.62	0.773
0.25	0.33	80	3.41	3	1.8	1.8	0.00294	21/46	14.8	42	680	47.5	55	57	0.45	0.56	0.65	0.974
0.37	0.5	90S	5.05	3.5	2.1	2.1	0.00448	29/64	18	43	695	51	59	61	0.43	0.53	0.64	1.37
0.55	0.75	90L	7.63	3.5	2.1	2.1	0.00616	21/46	21.5	43	690	57	63	65	0.45	0.56	0.65	1.88
0.75	1	100L	9.96	4.2	2	2.1	0.00952	30/66	27	50	705	65	70	71	0.42	0.54	0.63	2.42
1.1	1.5	100L	15.05	4.1	1.7	2.1	0.01289	23/51	30.5	50	700	66	71.5	72.2	0.43	0.56	0.65	3.38
1.5	2	112M	19.79	4.6	2.5	2.7	0.0243	32/70	43	46	710	76.5	77.8	78	0.48	0.6	0.69	4.02
2.2	3	132S	29.47	6.2	2.4	2.7	0.07527	23/51	67.5	48	715	78.5	81.5	82.5	0.53	0.65	0.73	5.27
3	4	132M	39.57	5.8	2.4	2.7	0.08531	22/48	76.5	48	710	78	82.7	83.5	0.52	0.64	0.72	7.2
4	5.5	160M	52.92	5.2	2.2	2.7	0.12209	33/73	105	51	730	81.3	84.3	86	0.47	0.6	0.69	9.73
5.5	7.5	160M	72.16	5.2	2.3	2.7	0.14364	23/51	109.8	51	730	81.5	84.1	85.2	0.46	0.59	0.69	13.5
7.5	10	160L	96.88	4.9	2	2.5	0.16518	15/33	118.1	51	725	83.5	85.7	85.5	0.51	0.63	0.72	17.6
11	15	180L	145.32	6.8	2.3	2.5	0.2758	11/24	153.4	51	725	87	88.5	88.3	0.68	0.79	0.84	21.4
15	20	200L	192.44	4.6	2	2.1	0.3767	23/51	220.4	53	730	86.5	88.6	89	0.56	0.68	0.75	32.4
18.5	25	225S/M	240.55	6.9	2.1	2.8	0.84722	17/37	341	56	730	88.5	90.1	90	0.72	0.8	0.85	34.9
22	30	225S/M	288.66	7.5	2.2	2.7	0.98842	19/42	365	56	730	89	91	91	0.73	0.82	0.85	41.1
30	40	250S/M	384.87	7.9	2.3	2.9	1.22377	17/37	440	56	730	89.5	91.2	91.6	0.7	0.79	0.84	56.3
37	50	280S/M	474.59	6.5	1.9	2.3	2.29824	29/64	590	59	740	90.5	92.2	92.3	0.67	0.77	0.81	71.4
45	60	280S/M	569.51	6.5	2	2.4	2.64298	26/57	643	59	740	90.5	92.1	92.3	0.65	0.75	0.8	88
55	75	315S/M	711.89	6.5	1.9	2.2	3.10263	27/59	745	62	740	91.2	93.1	93	0.69	0.78	0.82	104
75	100	315S/M	949.18	6.6	1.9	2.2	4.36666	20/44	876	62	740	92	93.4	93.5	0.67	0.79	0.82	141
90	125	315S/M	1186.48	6.8	2.1	2.4	5.28596	23/51	970	62	740	92.5	93.8	94.2	0.7	0.78	0.83	166
110	150	355M/L	1423.78	6.4	1.5	2.2	11.9324	41/90	1390	70	740	92.5	94.1	94.5	0.63	0.74	0.8	210
132	175	355M/L	1661.07	6.5	1.6	2.2	13.18845	147/03	1445	70	740	93	94.5	94.8	0.63	0.73	0.79	254
132	180	355M/L	1708.53	6.5	1.6	2.2	13.18845	147/03	1445	70	740	93	94.5	94.8	0.63	0.73	0.79	254
150	200	355M/L	1898.37	6.5	1.6	2.2	14.7585	40/88	1570	70	740	93	94.7	94.7	0.61	0.72	0.78	293
160	220	355M/L	2088.2	6.6	1.6	2.2	16.32856	42/92	1620	70	740	93.3	94.7	94.7	0.64	0.75	0.8	305
185	250	355M/L	2372.96	6.5	1.6	2.2	17.27059	30/66	1730	70	740	93	94.6	95.1	0.6	0.71	0.78	360
200	270	355M/L	2562.8	6.8	1.6	2.1	19.46866	37/81	1830	70	740	93.3	94.6	95.2	0.6	0.72	0.79	384
220	300	355M/L*	2847.55	6.5	1.6	2.1	20.4107	35/77	1930	70	740	93.4	94.7	95.2	0.62	0.73	0.78	428
HIGH-OUTPUT DESIGN																		
7.5	10	160M	96.88	4.9	2	2.5	0.16518	15/33	127	51	725	83.5	85.7	85.5	0.51	0.63	0.72	17.6
30	40	225S/M	384.87	7.9	2.3	2.9	1.22377	17/37	440	56	730	89.5	91.2	91.6	0.7	0.79	0.84	56.3
37	50	250S/M	481.09	8.2	2.3	2.8	1.55324	13/29	455	56	730	89	91.5	91.5	0.68	0.78	0.84	69.5
55	75	280S/M	711.89	6.5	1.9	2.2	3.10263	27/59	745	59	740	91.2	93.1	93	0.69	0.78	0.82	104
75	100	280S/M	949.18	6.6	1.9	2.2	4.36666	20/44	876	59	740	92	93.4	93.5	0.67	0.79	0.82	141
110	150	315S/M*	1423.78	7	1.9	2.2	5.6307	14/31	970	62	740	92.5	94.1	94.8	0.61	0.73	0.79	212

Notes:

*Class "F" insulation with ΔT105K

Standard voltage, connection and frequency: 220-240V Δ 50Hz
380-415V Y 50Hz

380-415V Δ 50Hz
660-690V Y 50Hz

The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Single Speed Improved Efficiency EFF2

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current I _n (A)	Rated speed (rpm)	% of full load						Full load current I _n (A)
			Efficiency η			Power Factor (Cos φ)					Efficiency η			Power Factor (Cos φ)			
kW	HP	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
VIII Pole - 750 rpm																	
0.12	0.16	675	40	48	50	0.44	0.52	0.6	0.608	695	32	40.5	45	0.37	0.47	0.53	0.7
0.18	0.25	690	43	52	54.5	0.45	0.56	0.65	0.772	710	37	46	53	0.41	0.5	0.59	0.801
0.25	0.33	670	50.5	56.5	56.5	0.48	0.59	0.69	0.974	690	45	53.5	56.5	0.42	0.53	0.61	1.01
0.37	0.5	685	54	61	62	0.46	0.56	0.67	1.35	700	48	57	60	0.4	0.5	0.6	1.43
0.55	0.75	680	59	64.5	65.5	0.48	0.59	0.69	1.85	700	55	61.5	64.5	0.41	0.52	0.61	1.94
0.75	1	695	67	71	70.5	0.46	0.58	0.66	2.45	710	63	69	70.5	0.38	0.5	0.6	2.47
1.1	1.5	690	68	72	72	0.47	0.6	0.68	3.41	710	64	70.5	72.2	0.4	0.52	0.62	3.42
1.5	2	700	77.5	78	77.7	0.52	0.63	0.7	4.19	715	74.5	77	78.1	0.46	0.58	0.66	4.05
2.2	3	710	79.5	81.8	82.1	0.56	0.68	0.75	5.43	720	77.5	81.2	82.6	0.5	0.62	0.71	5.22
3	4	705	79.5	83	83	0.54	0.66	0.74	7.42	715	76.5	82.4	83.5	0.5	0.62	0.7	7.14
4	5.5	725	82.6	84.8	85.9	0.51	0.64	0.72	9.83	730	80	83.7	86	0.44	0.57	0.66	9.8
5.5	7.5	725	82.5	84.7	85.2	0.5	0.63	0.72	13.6	730	80.5	83.5	85	0.42	0.55	0.66	13.6
7.5	10	720	84.5	86	85.3	0.54	0.66	0.74	18.1	730	82.5	85.5	85.5	0.48	0.6	0.7	17.4
11	15	720	87.5	88.3	87.8	0.71	0.81	0.85	22.4	730	86.5	88.6	88.5	0.65	0.77	0.83	20.8
15	20	725	87.5	88.9	88.9	0.61	0.72	0.77	33.3	730	85.5	88.3	88.9	0.5	0.64	0.72	32.6
18.5	25	730	88.8	90	89.8	0.75	0.83	0.86	36.4	735	88.2	90.3	90.2	0.68	0.78	0.84	34
22	30	730	89.4	90.9	90.5	0.76	0.84	0.86	42.9	735	88.6	91	91.2	0.71	0.8	0.84	40
30	40	730	90	91.3	91.3	0.73	0.81	0.85	58.7	735	89	91.1	91.8	0.66	0.77	0.83	54.8
37	50	735	91	92.2	92.1	0.7	0.79	0.82	74.4	740	90	92.2	92.4	0.64	0.75	0.79	70.5
45	60	735	91	92.2	92	0.7	0.77	0.82	90.6	740	90	92	92.3	0.6	0.72	0.78	87
55	75	735	91.6	93.2	92.8	0.72	0.8	0.83	108	740	90.7	93	93	0.65	0.76	0.8	103
75	100	735	92.4	93.3	93.3	0.7	0.8	0.83	147	740	91.6	93.4	93.4	0.64	0.78	0.81	138
90	125	735	92.9	93.9	94	0.73	0.81	0.84	173	740	92.1	93.7	94.2	0.67	0.75	0.81	164
110	150	740	93	94.2	94.5	0.66	0.77	0.82	216	745	92	94.1	94.5	0.6	0.71	0.78	208
132	175	740	93.5	94.6	94.8	0.66	0.75	0.81	261	745	92.5	94.4	94.8	0.6	0.71	0.77	252
132	180	740	93.5	94.6	94.8	0.66	0.75	0.81	261	745	92.5	94.4	94.8	0.6	0.71	0.77	252
150	200	740	93.5	94.8	94.7	0.66	0.76	0.8	301	745	92.5	94.7	94.7	0.57	0.69	0.76	290
160	220	740	93.8	94.8	94.8	0.68	0.77	0.81	317	745	92.8	94.7	94.7	0.6	0.72	0.79	298
185	250	740	93.5	94.7	95.1	0.65	0.75	0.8	369	745	92.5	94.5	95	0.55	0.67	0.76	356
200	270	740	93.8	94.8	95.1	0.65	0.75	0.81	394	745	92.8	94.4	95.2	0.56	0.69	0.77	380
220	300	740	93.8	94.8	95.2	0.66	0.76	0.8	439	745	93	94.6	95.2	0.58	0.7	0.76	423
HIGH-OUTPUT DESIGN																	
7.5	10	720	84.5	86	85.3	0.54	0.66	0.74	18.1	730	82.5	85.5	85.5	0.48	0.6	0.7	17.4
30	40	730	90	91.3	91.3	0.73	0.81	0.85	58.7	735	89	91.1	91.8	0.66	0.77	0.83	54.8
37	50	730	89.5	91.5	91	0.72	0.82	0.86	71.8	735	88.5	91.5	91.5	0.64	0.76	0.82	68.6
55	75	735	91.6	93.2	92.8	0.72	0.8	0.83	108	740	90.7	93	93	0.65	0.76	0.8	103
75	100	735	92.4	93.3	93.3	0.7	0.8	0.83	147	740	91.6	93.4	93.4	0.64	0.78	0.81	138
110	150	735	93	94.1	94.8	0.66	0.75	0.8	220	740	92	94.1	94.8	0.56	0.71	0.77	210

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Variable torque IV/II Pole - Dahlander Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											50	75	100	50	75	100	
50Hz - 400V - IV/II pole (1500/3000 rpm) - Y / YY connection																		
0.11	0.15	71	0.75	4	2.3	3	0.00079	40/88	11	43	1410	51	59	62	0.45	0.56	0.65	0.394
0.55	0.75		1.86	5.5	2.3	2.8		8/18		56	2830	66	70	71	0.67	0.8	0.86	1.3
0.11	0.15	80	0.75	3.9	2.1	2.7	0.00068	60/132	13	44	1400	57	63.5	65	0.42	0.53	0.62	0.394
0.55	0.75		1.88	5.2	2.2	3		12/26		59	2800	70	72	72	0.69	0.8	0.86	1.282
0.2	0.27	80	1.35	4.5	2	2.5	0.00242	30/66	14	44	1400	64	68	68.5	0.48	0.61	0.7	0.602
0.8	1.08		2.69	6	2.5	3.2		8/18		59	2820	70	72	73	0.66	0.77	0.83	1.91
0.25	0.33	80	1.67	3.8	2.2	2.5	0.00294	30/66	15	44	1390	66	70	70.5	0.48	0.6	0.68	0.753
1.1	1.5		3.75	6	2.5	2.8		8/18		59	2810	74	75	75	0.71	0.83	0.88	2.41
0.37	0.5	90S	2.45	4.5	2	2.1	0.00476	18/40	20	49	1435	62.3	67.4	68.8	0.45	0.54	0.62	1.25
1.5	2		4.84	6.5	2.5	3		6/13		64	2900	68	75	76.4	0.62	0.73	0.8	3.54
0.5	0.68	90L	3.36	3.5	1.8	2.2	0.00616	13/29	22	49	1420	67	70	71	0.47	0.58	0.66	1.54
2.2	3		7.41	6	2.2	2.6		6/13		64	2845	75	77.8	78.9	0.71	0.8	0.87	4.63
0.65	0.88	100L	4.31	4.5	2.1	2.2	0.00765	22/48	30	53	1435	72	76.5	77.5	0.56	0.67	0.73	1.66
2.5	3.4		8.26	6.5	2.3	2.8		6/13		67	2890	78	80	81	0.7	0.81	0.86	5.18
0.8	1.08	100L	5.3	4.6	2.1	2.2	0.00918	18/40	33	53	1430	75	77	77.5	0.57	0.68	0.75	1.99
3.1	4.2		10.21	7.2	2.3	2.8		6/13		67	2890	80	81.5	82	0.73	0.83	0.88	6.2
1.1	1.5	112M	7.32	5	1.8	2.6	0.01741	22/48	43	56	1440	74	78.5	79	0.55	0.66	0.72	2.79
4.4	5.9		14.34	7.8	2.4	3		7/15		64	2890	82.5	83.5	84	0.76	0.84	0.88	8.59
1.5	2	132S	9.62	5.6	2	2.4	0.0243	38/84	58	60	1460	77	81.5	83	0.5	0.62	0.71	3.67
6	8		19.18	8.3	2.5	3		6/13		68	2930	83.5	85	85	0.73	0.84	0.89	11.4
2	2.7	132M	12.9	5.8	1.9	2	0.02804	38/84	67	60	1470	80	82	83	0.51	0.63	0.72	4.83
8	10.8		25.89	8.5	2.6	2.7		6/13		68	2930	82.8	84	85	0.77	0.85	0.89	15.3
3	4	160M	19.11	6	2	2.4	0.05294	28/62	118	67	1470	80	83	84	0.5	0.63	0.71	7.26
12	16		38.1	8.5	2.5	2.9		6/13		70	2950	83	85	86	0.71	0.81	0.87	23.1
4	5.5	160L	26.28	6	2.2	2.4	0.06766	30/66	135	67	1470	83.5	84.5	85	0.5	0.63	0.71	9.57
16	21.7		51.67	8.6	2.6	3		6/13		70	2950	85	86.5	87	0.73	0.82	0.87	30.5
5.5	7.5	180L	35.96	4.7	1.6	2.7	0.11352	40/88	160	64	1465	84.5	87	87	0.54	0.65	0.72	12.7
20	27.2		64.65	9.2	2.7	3.5		6/13		70	2955	87.5	89.5	90	0.76	0.84	0.89	36
6.3	8.6	180L	41.23	4.7	1.6	2.4	0.21527	35/77	180	64	1465	86.5	88	88.5	0.54	0.65	0.72	14.3
25	34		80.95	8.9	2.7	3.4		6/13		70	2950	90	90.7	91	0.76	0.85	0.89	44.6
8.5	11.5	200L	54.95	4.2	2	2	0.22426	50/110	242	69	1470	88.5	89.5	90	0.58	0.69	0.74	18.4
33	44.8		106.31	8.2	3.2	2.8		10/22		74	2960	89.5	91	91.2	0.8	0.87	0.89	58.7
9	12.2	225S/M	57.71	6.1	2.3	2.6	0.39467	28/62	366	70	1485	85	88	88.5	0.55	0.65	0.72	20.4
37	50		118.25	8.7	2.6	3		6/13		82	2970	88.5	90	90.5	0.81	0.87	0.9	65.6
12	16.3	225S/M	77.88	6.3	2.2	2.4	0.76985	23/51	385	70	1470	86	87	88.2	0.57	0.67	0.73	26.9
46	63		149.5	8.8	2.4	2.8		6/13		82	2960	85	88	90.6	0.76	0.84	0.9	81.4
15	20	250S/M	94.92	5.2	1.9	2.2	1.08479	32/70	450	70	1480	88.5	89.7	90.5	0.64	0.73	0.76	31.5
55	75		177.37	8.5	2.3	2.7		6/13		82	2970	89.8	90.8	91	0.85	0.89	0.91	95.9
20	27	280S/M	129.01	5.5	2	2.1	2.16799	60/132	705	76	1470	89.3	91	91.8	0.56	0.66	0.72	43.7
75	100		236.5	8.8	2.5	2.7		7/15		83	2970	89.5	91.2	92	0.72	0.8	0.84	140
24	32.6	280S/M	154.2	5.5	2	2.1	2.40888	55/121	775	76	1485	89.2	90.9	91.8	0.56	0.66	0.72	52.4
90	125		294.63	9	2.5	3.3		11/24		83	2980	89.8	91.4	92.3	0.78	0.85	0.88	160
27	37	315S/M	176.79	5.4	2	2	3.21184	62/136	820	77	1470	89.3	91	92	0.57	0.67	0.72	58.8
110	150		354.75	9	2.6	2.7		7/15		84	2970	90	91.9	92.8	0.73	0.82	0.85	201
33	45	315S/M	215.02	6	2	2.1	3.61332	50/110	865	77	1470	89.4	91.2	92.5	0.57	0.67	0.71	72.5
132	180		424.98	9.3	2.5	2.8		6/13		84	2975	90.3	92.4	93.3	0.75	0.82	0.86	237
37	50	315S/M*	238.91	6	2	2.2	3.61332	48/106	1017	77	1470	91.8	92.4	93	0.57	0.67	0.71	80.9
145	197		465.12	9.3	2.3	2.7		6/13		84	2975	91.5	93	94	0.75	0.82	0.86	259

Notes:

*Class "F" insulation with ΔT105K

Standard voltage, connection and frequency: 220-240V Δ 50Hz

380-415V Δ 50Hz

380-415V Y 50Hz

660-690V Y 50Hz

The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Variable torque VIII/IV Pole - Dahlander Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _L /I _n	Locked rotor torque T _L /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load						
												Efficiency η			Power Factor (Cos φ)			
kW	HP	50	75	100	50	75	100											
50Hz - 400V - VIII/IV pole (750/1500 rpm) - Y / YY connection																		
0.15	0.2	80	1.98	3.1	2.3	2.5	0.00294	20/44	14.8	42	710	31	39	46	0.47	0.54	0.62	0.759
0.6	0.8		3.9	5.5	2.2	2.7		6/13		44	1440	57	65	68.5	0.51	0.64	0.72	1.76
0.2	0.27	80	2.75	2.7	1.7	2	0.00294	18/40	15.3	42	690	37	45	49.5	0.5	0.6	0.66	0.884
0.8	1.08		5.36	4.7	1.7	2.1		6/13		44	1415	64	69	70	0.59	0.73	0.83	1.99
0.3	0.4	90S	3.99	3.1	2.2	2.2	0.0056	28/62	22.2	43	705	46	54	57	0.42	0.5	0.59	1.29
1.2	1.6		7.86	5.5	2.3	2.7		6/13		49	1430	72	75	76	0.55	0.69	0.78	2.92
0.4	0.55	90L	5.52	3.2	2.2	2.3	0.00672	17/37	23	43	700	49	56	59	0.4	0.5	0.58	1.69
1.6	2.17		10.73	5.7	2.3	2.6		6/13		49	1420	73	76	77	0.57	0.7	0.79	3.8
0.55	0.75	100L	7.53	3.5	2.3	2.5	0.01345	20/44	31	50	700	55	63	65	0.4	0.52	0.61	2
2.2	3		14.74	6.9	2.5	2.8		6/13		53	1430	77	79	80	0.62	0.75	0.82	4.84
0.7	0.95	100L	9.67	3.6	2.2	2.4	0.01457	20/44	32.3	50	690	58	64.5	66.5	0.42	0.53	0.63	2.41
2.8	3.8		18.93	6	2.4	2.6		6/13		53	1410	77.5	80	80	0.64	0.77	0.84	6.01
1	1.4	112M	13.85	4	2	2.1	0.02617	18/40	43	46	710	70	73	74	0.5	0.64	0.71	2.75
3.8	5.2		25.36	7	2.6	2.8		6/13		56	1440	76	78.5	80	0.62	0.76	0.83	8.26
1.3	1.77	132S	17.03	6.2	2.1	2.8	0.07527	20/44	67.5	48	730	72	75	76.5	0.48	0.61	0.7	3.5
5	6.8		33.17	8.5	2.7	2.8		6/13		60	1440	77	79	80	0.71	0.82	0.87	10.4
1.8	2.45	132M*	23.74	4.2	1.5	2.4	0.08531	21/46	62	48	725	74	78	79	0.43	0.56	0.65	5.06
7.2	9.8		46.83	7.9	2.2	2.7		5/11		60	1470	77	80.5	81.5	0.53	0.67	0.77	16.5
1.8	2.45	160M	23.57	5.2	2.1	2.8	0.12208	30/66	110	51	730	75.8	80	81.2	0.46	0.58	0.67	4.776
7.2	9.8		46.83	8.5	2.5	3.6		7/15		67	1470	82	85	85.8	0.65	0.77	0.84	14.419
3	4	160M	38.75	4.3	1.7	2.1	0.14364	30/66	107.4	51	725	81	82	82.5	0.54	0.67	0.75	7
11	15		72.41	7	2.4	2.7		6/13		67	1455	84	85.5	86	0.71	0.83	0.88	21
3.5	4.8	160L	46.5	4.2	1.9	2.2	0.18673	30/66	135	51	725	81	83	83	0.51	0.64	0.72	8.45
14	19		91.72	7.2	2.6	2.9		6/13		67	1455	84	86	86.5	0.71	0.83	0.88	26.5
4.3	5.8	180L	55.81	4	1.7	2	0.19734	20/44	162	51	730	80	83	84.2	0.39	0.5	0.58	12.7
17	23		109.53	8	2.4	2.8		7/15		64	1475	88.6	89.5	89.5	0.62	0.75	0.82	33.4
5	6.8	180L	65.43	5.1	2	2	0.33095	20/44	177	51	730	79	82.7	82.7	0.4	0.54	0.62	14.1
20	27		129.01	8.8	2.5	2.6		7/15		64	1470	85	88	89	0.65	0.77	0.84	38.6
6.5	8.8	200L	84.1	3.6	1.9	2	0.38609	20/44	255.2	53	735	83.5	86.5	87	0.43	0.54	0.6	18
28	38		180.34	7.4	2.6	2.8		8/18		69	1480	90.5	91.5	91.5	0.71	0.81	0.85	52
8	10.8	200L*	103.92	4	1.8	2	0.4137	20/44	255	53	730	82.5	86	87	0.41	0.53	0.61	21.8
35	47		224.58	7.8	2.4	2.8		6/13		69	1470	89	90	90.5	0.66	0.78	0.83	67.3
9.2	12.5	225S/M	118.65	5.5	2.8	3.1	0.75686	18/40	360	56	740	81	85	87	0.43	0.53	0.6	25.4
37	50		236.5	9.5	3.1	4.2		6/13		70	1485	86.5	89	90	0.62	0.74	0.8	74.2
11	15	225S/M	142.38	5	2.2	2.2	1.12963	20/44	425	56	740	83	86	87	0.47	0.58	0.67	27.2
44	59.7		283.33	8	2.4	3		8/18		70	1480	89	90.5	91	0.73	0.83	0.87	80.2
14.7	19.9	250S/M	190.17	4.6	1.8	2	1.55324	18/40	450	56	735	86	87.5	88	0.45	0.58	0.66	36.5
55	75		355.94	9	2.6	3		6/13		70	1480	89	90.5	91	0.71	0.82	0.87	100
17	23	280S/M	218.31	4.2	1.5	1.6	3.33245	20/44	650	59	740	83.2	86.4	88.6	0.47	0.57	0.63	44
68	92.3		436.57	8	2.5	2.5		10/22		76	1485	85.1	89	90	0.76	0.83	0.86	127
20	27	280S/M	256.28	4.2	1.6	1.6	3.67719	20/44	690	59	740	83.9	87.3	89	0.46	0.57	0.61	53.2
80	109		515.56	8.6	2.7	2.8		10/22		76	1485	86.5	89	90.3	0.76	0.81	0.84	152
27	37	315S/M	351.2	4	1.7	1.7	4.82631	40/88	890	62	740	85	87	88.5	0.4	0.5	0.58	76
110	150		709.49	8.5	2.6	2.7		10/22		77	1485	88	90.2	91.3	0.69	0.78	0.82	212
33	44.8	315S/M	425.23	4	1.7	1.8	5.40087	20/44	990	62	740	83.5	87.8	89.4	0.4	0.51	0.58	91.9
130	177		837.2	8.4	2.6	2.7		10/22		77	1485	87.3	90	91.3	0.65	0.76	0.82	251
40	55	315S/M*	522.05	4	1.9	1.9	5.40087	30/66	1000	62	740	89.2	91	91.3	0.43	0.55	0.59	107
160	217		1026.4	8.6	2.8	2.9		8/18		77	1485	92	93	94	0.67	0.79	0.84	292

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Variable torque VI/IV Pole - Independent Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											Efficiency η		Power Factor (Cos φ)				
												50	75	100	50	75	100	
50Hz - 400V - VI/IV pole (1000/1500 rpm) - Y / Y connection																		
0.1	0.14	71	3.5	1.02	3	3.2	0.00096	21/46	8	43	960	26	34	40	0.4	0.45	0.5	0.722
0.3	0.4		5	1.96	2.3	3	11/24	8	43	1435	54	62	66.3	0.47	0.58	0.66	0.99	
0.2	0.27	80	3.7	1.96	1.9	2.7	0.00328	9/20	11	43	970	31	40	46	0.44	0.52	0.6	1.05
0.55	0.75		5	3.63	1.9	2.7	6/13	11	44	1450	52	60	65.7	0.48	0.61	0.69	1.75	
0.25	0.33	80	3.9	2.39	2.5	3.4	0.00346	7/15	12	43	970	33	41.5	48	0.42	0.5	0.57	1.32
0.75	1		4.7	4.91	1.4	2.1	6/13	12	44	1430	62	67	68	0.57	0.71	0.82	1.94	
0.3	0.4	90S	5.1	2.9	2.6	3.2	0.0056	9/20	16	45	970	38	48	53	0.39	0.46	0.54	1.51
1.1	1.5		5.4	7.32	2	2.6	6/13	16	49	1440	65	71	72.5	0.51	0.65	0.75	2.92	
0.37	0.5	90L	4.5	3.62	2	2.6	0.00672	8/18	20	45	970	40	50	55	0.43	0.52	0.6	1.62
1.5	2		5.5	9.76	2	2.4	6/13	20	49	1440	70	74	75	0.55	0.69	0.79	3.65	
0.6	0.82	100L	5	5.94	2.2	3.1	0.01345	9/20	25	44	970	51	59	63	0.41	0.5	0.59	2.33
1.7	2.3		6.5	11.14	2.1	2.7	6/13	25	53	1450	68	73	75	0.52	0.65	0.74	4.42	
0.7	0.95	100L	5.5	6.88	2.8	3.5	0.01	10/22	27	44	970	57	64	68	0.4	0.5	0.6	2.48
2.2	3		6	14.74	1.7	2.2	6/13	27	53	1430	76	77	77	0.64	0.77	0.84	4.91	
1	1.36	112M	6.2	9.7	3	3.5	0.02617	7/15	44.6	48	985	54	63	68	0.37	0.46	0.55	3.86
3	4		7.6	19.24	2.6	3	6/13	44.6	56	1460	76	80	81	0.58	0.7	0.78	6.85	
1.5	2	132S	7	14.19	3	3.8	0.05071	8/18	63.7	52	990	64	71	76	0.35	0.45	0.53	5.38
4.5	6		7.5	28.77	2.8	3.1	8/18	63.7	60	1465	76	80	82	0.58	0.7	0.78	10.2	
2.2	3	132M	7.4	21.28	2.8	3.2	0.06242	7/15	79	52	990	72	78	80	0.37	0.48	0.57	6.96
6	8.1		7.8	38.84	2.5	3.1	6/13	79	62	1465	75	80	82	0.57	0.7	0.78	13.7	
2.5	3.4	160M	7	24.37	2.5	3.6	0.11491	12/26	96	56	980	74.5	79	81	0.49	0.64	0.74	6.02
5.5	7.5		7.5	35.72	2	3.3	6/13	96	67	1475	75.5	80	81.5	0.6	0.74	0.83	11.7	
3.3	4.5	160M	4	32.42	2	2.3	0.1061	18/40	113.8	56	975	75.5	78.5	79	0.48	0.61	0.69	8.74
10	13.6		7	64.76	3	3.2	7/15	113.8	67	1475	83	86	87	0.56	0.69	0.76	22	
3.5	4.8	160M	6.6	34.4	2.3	3.2	0.14364	9/20	118	56	980	77	81	82	0.53	0.68	0.78	7.9
7.5	10		8	47.62	2.2	3.5	6/13	118	67	1475	78	82	83.5	0.6	0.75	0.83	15.6	
4.5	6	160L	4.5	43.22	1.9	2	0.13131	8/18	135	56	975	77	79	79	0.56	0.68	0.75	11
14	19		7	90.79	3	3	8/18	135	67	1470	84.5	87	88	0.66	0.77	0.82	28	
5	6.8	180L	8	48.49	2.2	2.7	0.27579	6/13	163	56	985	85	86	86	0.73	0.83	0.87	9.65
11	15		10	71.67	2.6	3.3	5/11	163	64	1470	86.5	88	88.5	0.85	0.9	0.92	19.5	
6.5	8.8	180L	7.8	62.75	1.8	2.9	0.33308	5/11	195	56	985	85	86	86.3	0.7	0.81	0.87	12.5
16	21.7		9	103.34	2.4	2.9	5/11	195	64	1475	88	88.5	88.5	0.81	0.89	0.92	28.4	
8.5	11.5	180L	8.7	82.01	2.2	3.2	0.37922	5/11	230	56	985	86.5	87.5	87.5	0.68	0.8	0.86	16.3
20	27.2		9	130.41	2.4	3	5/11	230	64	1465	88.5	89	89	0.86	0.91	0.93	34.9	
9	12.2	200L	7.5	86.56	2.3	3.2	0.5055	5/11	280	58	990	84.5	87.5	88.5	0.58	0.7	0.79	18.6
26	35.5		7.5	168.48	2.5	3.1	8/18	280	69	1480	88.5	90.5	90.5	0.74	0.83	0.87	47.7	
12	16	225S/M	8.3	113.52	3.5	3.5	0.77479	9/20	379	61	990	82	85.5	87	0.5	0.62	0.71	28
34	46.2		8.5	218.52	2.5	3.2	6/13	379	70	1485	87	89	89	0.72	0.82	0.87	63.4	
14	19	225S/M	7.3	134.8	2.5	2.5	0.84523	8/18	433	61	990	84	85.5	87	0.57	0.7	0.77	30.2
40	55		9	260.15	2.9	3.5	5/11	433	70	1485	88.5	90.5	91	0.71	0.81	0.87	72.9	
18	24.4	225S/M	5.7	173.99	1.7	2.5	1.3179	8/18	448	61	985	86.9	87.9	87.4	0.64	0.76	0.8	37.2
50	68		8.7	321.64	2.3	3.6	8/18	448	70	1485	89	91	91.6	0.65	0.77	0.83	94.9	
18	24.4	250S/M	8.1	173.12	3.3	3.6	1.16219	9/20	520	61	990	86	88	89	0.51	0.65	0.73	40
50	68		8.6	321.64	2.6	3.4	5/11	520	70	1485	90	91.5	92	0.73	0.83	0.87	90.2	
25	34	280S/M	8	240.01	3.6	3.2	2.58594	11/24	685	66	995	84	87.5	89	0.5	0.61	0.69	58.8
70	95		7.5	447.84	2.3	2.8	20/44	685	76	1490	90.5	92	93	0.72	0.82	0.87	125	
28	38	280S/M	7.1	269.61	3.1	2.7	2.82838	24/53	748	66	990	86	89	90.5	0.55	0.66	0.73	61.2
80	109		9	513.83	2.7	3.4	12/26	748	76	1490	89	91.5	92.6	0.71	0.8	0.85	147	
34	46	315S/M	8.8	324.73	3.7	3.4	3.39405	8/18	898	69	995	85	88	90	0.49	0.61	0.69	79
95	129		8.1	610.16	2.9	2.9	15/33	898	77	1485	91	92.7	93.5	0.79	0.85	0.88	167	
40	54.3	315S/M	7	385.25	2.7	3.3	3.7981	6/13	1005	69	990	88.5	90.5	91	0.5	0.62	0.7	90.6
115	156		9	735.39	2.6	3.8	9/20	1005	77	1490	91.4	93.2	93.9	0.62	0.73	0.8	221	
45	60	315S/M	6.5	425.69	2.7	2.5	3.7981	8/18	1005	69	990	90	91	91.5	0.6	0.71	0.77	92.2
125	170		9	801.39	2.9	3.5	13/29	1005	77	1490	93	94	94.5	0.7	0.8	0.83	230	
55	75	315S/M	7.2	532.12	3.2	2.9	3.7981	5/11	1005	69	990	90	91	91.6	0.56	0.68	0.75	116
145	197		8	931.8	2.5	3	9/20	1005	77	1485	93.5	94.5	94.5	0.73	0.83	0.84	264	

Notes:
 *Class "F" insulation with ΔT105K
 Standard voltage, connection and frequency: 220-240V Δ 50Hz 380-415V Δ 50Hz
 380-415V Y 50Hz 660-690V Y 50Hz
 The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Constant torque IV/II Pole - Dahlander Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load						
												Efficiency η			Power Factor (Cos φ)			
kW	HP										50	75	100	50	75	100		
50Hz - 400V - IV/II pole (1500/3000 rpm) - Δ / YY connection																		
0.21	0.28	71	1.39	5	2.5	2.7	0.00079	28/62	11	43	1420	56	63	65	0.48	0.57	0.66	0.707
0.28	0.38		0.93	6.5	2.5	3		12/26		56	2870	54	62	66	0.73	0.8	0.84	0.729
0.3	0.4	71	1.97	5.1	2.5	2.8	0.00096	25/55	12.5	43	1425	60	67	69	0.47	0.58	0.68	0.923
0.43	0.58		1.42	6.5	2.6	3		14/31		56	2870	60.5	67.5	70	0.72	0.79	0.84	1.06
0.48	0.65	80	3.31	4	2.3	2.3	0.00079	20/44	14	44	1380	61	67	68.1	0.5	0.62	0.72	1.41
0.6	0.82		2.04	6.1	2.5	2.8		12/26		59	2830	69	72	73	0.72	0.82	0.87	1.36
0.7	0.95	80	4.91	4	2.2	2.2	0.00096	18/40	15	44	1360	65	68	68.4	0.5	0.62	0.71	2.08
0.85	1.15		2.86	6.2	2.5	2.8		10/22		59	2820	72	75.5	76.5	0.73	0.82	0.88	1.82
1.1	1.5	90S	7.53	5	2.1	2.2	0.00504	7/15	20	49	1400	71	73.5	74	0.66	0.78	0.84	2.55
1.4	1.9		4.85	6	2.2	2.2		6/13		64	2750	68	72	73	0.7	0.81	0.9	3.08
1.5	2	90L	9.96	5.2	2.3	2.4	0.00616	8/18	22	49	1410	73	75.3	76	0.61	0.76	0.83	3.43
1.9	2.6		6.5	5.5	2.3	2.5		6/13		64	2810	68	72	72.5	0.74	0.84	0.9	4.2
2	2.7	100L	13.45	6	2.4	2.4	0.00918	12/26	34	53	1410	72.4	75.5	76.2	0.62	0.74	0.83	4.56
2.4	3.3		8.08	6.7	2.4	2.5		8/18		67	2870	72	74	76	0.75	0.85	0.89	5.12
2.6	3.5	100L	17.44	5.5	2.4	2.5	0.00918	8/18	34	53	1410	74	77.3	78	0.62	0.74	0.83	5.8
3.1	4.2		10.28	6.8	2.5	2.8		6/13		67	2870	74	77	77.5	0.67	0.8	0.87	6.64
3.7	5	112M	24.56	6	2.3	2.3	0.01607	8/18	45	56	1430	79.5	80	80	0.68	0.8	0.86	7.76
4.4	5.9		14.36	7.3	2.4	2.7		6/13		64	2885	79	80	80.5	0.77	0.86	0.91	8.67
4.9	6.6	132S	31.97	6.5	1.7	2	0.04264	8/18	62	60	1450	82	83	83	0.78	0.86	0.89	9.57
5.9	7.9		19.2	6.5	2	2.3		6/13		68	2890	77.5	78.5	79	0.82	0.89	0.92	11.7
6.8	9.2	132M	44.57	6.4	1.6	2	0.05427	7/15	68	60	1450	83	84	84	0.75	0.84	0.88	13.3
8	11		26.55	6.5	2	2.3		6/13		68	2910	79	81	82	0.75	0.87	0.91	15.5
9.5	12.9	160M	62.49	5	2	2.1	0.09535	20/44	110	67	1450	83.5	84.2	85	0.77	0.84	0.86	18.8
11	15		35.84	8	2.8	2.8		10/22		70	2940	80	82.1	83	0.78	0.86	0.87	22
12	16.3	160L*	78.96	5	1.9	2	0.11542	20/44	126	67	1450	83.9	85.5	86	0.78	0.85	0.87	23.1
15	20		48.27	7	2.1	2.6		8/18		70	2910	82.5	85	85.4	0.85	0.9	0.92	27.6
15	20	180L	96.22	6.3	2.2	2.3	0.19733	17/37	170	64	1460	86.5	87.7	88	0.72	0.81	0.86	28.6
18	24.5		58.33	7.5	2.3	2.8		10/22		70	2950	86.5	87.5	88	0.84	0.89	0.92	32.1
18	24.5	180L	117.47	6.7	2.2	2.4	0.22424	15/33	190	64	1465	87.5	88.7	89	0.71	0.81	0.85	34.3
21.5	29		69.05	8.5	2.5	2.9		9/20		70	2950	86.5	88	88.7	0.79	0.87	0.9	38.9
26	35	200L	166.67	6.2	2	2.2	0.35853	22/48	250	69	1475	89	90	90.5	0.69	0.79	0.84	49.4
33	45		107.15	8	2.2	2.5		8/18		74	2950	85.5	88	88.8	0.83	0.89	0.91	58.9
32	43.5	225S/M	206.45	8.1	2.6	3.3	0.69987	11/24	350	70	1480	89	90.1	90.6	0.76	0.83	0.88	57.9
38	52		123.39	8.7	2.6	3.3		8/18		82	2960	84.6	87.3	88.5	0.83	0.87	0.89	69.6
38	52	225S/M	246.79	7.8	2.3	2.6	0.76985	12/26	380	70	1480	89	90.4	91	0.75	0.83	0.88	68.5
45	60		142.38	8.3	2.5	2.8		7/15		82	2960	85	87.9	89	0.77	0.84	0.87	83.9
46	63	250S/M	301.03	8	2.3	2.6	0.97981	7/15	440	70	1470	89.2	90.8	91.4	0.76	0.83	0.88	82.5
55	75		179.18	8.6	2.2	2.8		6/13		82	2940	85.5	88.4	89.5	0.82	0.87	0.9	98.6
63	86	280S/M	408.15	6.8	2	2.5	2.16799	30/66	700	76	1480	92	92.5	93	0.8	0.86	0.88	111
75	100		236.5	8.4	1.9	2.8		16/35		83	2970	87.5	89.5	90.5	0.82	0.88	0.9	133
73	99	280S/M	473.04	6.6	1.7	1.9	2.32858	12/26	730	76	1470	92	93	93	0.83	0.87	0.88	129
87	118		280.96	8	1.9	2.1		8/18		83	2950	89	90.5	91	0.88	0.91	0.92	150
85	115	315S/M	547.63	7	1.9	1.9	2.81036	11/24	868	77	1475	92.5	93	93.2	0.77	0.84	0.86	153
100	136		322.72	8.5	2.1	2.4		7/15		84	2960	90	91	91.5	0.89	0.92	0.93	170
100	136	315S/M	645.45	5.7	1.9	1.9	3.77391	14/31	1005	77	1480	92	93	93.5	0.8	0.85	0.86	180
120	160		379.03	8.5	2.4	2.7		8/18		84	2965	91	92	93	0.89	0.91	0.92	202

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Constant torque VIII/VI Pole - Dahlander Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load			Power Factor (Cos φ)			
kW	HP											Efficiency η		Power Factor (Cos φ)				
												50	75	100	50	75	100	
50Hz - 400V - VIII/IV pole (750/1500 rpm) - Δ / YY connection																		
0.27	0.37	80	3.79	2.5	1.8	1.8	0.00294	10/22	15	42	685	35	41	48	0.46	0.55	0.64	1.27
0.4	0.55		2.72	4.2	1.6	1.8		9/20		44	1420	65	68	69.1	0.6	0.71	0.81	1.03
0.4	0.55	90S	5.52	3.2	2	2	0.00504	13/29	19	43	700	40	50	53	0.42	0.52	0.6	1.82
0.7	0.95		4.77	5	1.8	2		8/18		49	1400	71.5	73	73	0.68	0.8	0.86	1.61
0.52	0.7	90L	7.02	3.3	2	2	0.00672	8/18	23	43	700	45	53	57	0.42	0.53	0.63	2.09
0.9	1.22		6.16	5.2	1.8	2		7/15		49	1390	73.5	75	75	0.7	0.81	0.86	2.01
0.7	0.95	100L	9.4	4.2	1.9	2.2	0.01121	13/29	29	50	710	60	66	68	0.42	0.53	0.64	2.32
1.1	1.5		7.32	5.8	2	2.4		6/13		53	1440	71	75	75	0.61	0.74	0.82	2.58
1.1	1.5	100L	15.05	4.2	1.9	2.3	0.01289	12/26	31	50	700	62	67	68.5	0.44	0.56	0.66	3.51
1.8	2.45		12.03	5.5	2.1	2.4		6/13		53	1430	70	75	75	0.64	0.75	0.82	4.22
1.5	2	112M	19.51	5	2.5	2.5	0.02617	8/18	45	46	720	66	71	75	0.43	0.53	0.64	4.51
2.5	3.4		16.58	7	2.5	2.7		6/13		56	1440	78	80	80.5	0.72	0.82	0.88	5.09
1.9	2.6	132S	25.36	6.3	2.6	2.6	0.07527	7/15	67.5	48	720	70	74.5	76	0.44	0.57	0.67	5.39
3.7	5		24.56	7	2.4	2.4		6/13		60	1430	79.2	80.1	82	0.78	0.87	0.9	7.24
3.3	4.5	160M	43.3	5.2	2.1	2.7	0.12208	20/44	110	51	730	76.5	80.5	81.5	0.45	0.58	0.68	8.59
5.5	7.5		36.08	7	2	2.7		12/26		67	1460	84	85	85.2	0.8	0.88	0.91	10.23
3.7	5	160M	48.11	5.4	2.3	2.8	0.12927	10/22	119	51	730	72.5	77.5	79.5	0.43	0.55	0.65	10.3
7	9.5		46.02	6.5	2.2	2.6		6/13		67	1450	83.5	84.2	84.5	0.79	0.87	0.9	13.3
5.5	7.5	160M	73.17	5	2.1	2.4	0.14364	15/33	119	51	720	74	77.5	79.6	0.48	0.6	0.7	14.2
8.8	12		58.13	6.5	2.1	2.4		7/15		67	1450	83.2	84.3	84.5	0.79	0.86	0.88	17.1
7	9.5	160L	92.04	5	2.3	2.4	0.16518	12/26	127	51	725	75	79.5	80.5	0.46	0.58	0.68	18.5
11	15		72.41	6.5	2.2	2.6		6/13		67	1455	84	85	85	0.77	0.86	0.89	21
11	15	180L	144.33	7.3	2.3	2.5	0.30337	6/13	177	51	730	82	82.6	84	0.5	0.63	0.7	27
18	24.5		117.87	8.5	2.2	2.4		6/13		64	1460	85.8	86.3	87	0.81	0.88	0.9	33.2
17	23	200L	219.8	4.5	2	2.2	0.50227	26/57	255	53	735	84.5	86.5	87.2	0.54	0.67	0.74	38
27	37		177.4	6	2	2.4		10/22		69	1465	88	89	89.5	0.85	0.89	0.91	47.8
22	30	225S/M	288.66	7.5	2	2.3	1.22377	9/20	360	56	730	86.5	87.5	88	0.65	0.76	0.82	44
32	43.5		208.56	8.5	2	2.5		6/13		70	1465	87.5	88.5	89	0.89	0.93	0.94	55.2
26	35	225S/M	339.09	7.5	2	2.3	1.36497	7/15	425	56	725	86.2	87.3	88	0.67	0.78	0.82	52
37	50		242.21	8.8	2	2.3		6/13		70	1450	87.2	88.1	88.7	0.85	0.89	0.91	66.2
33	45	250S/M	432.98	7.2	1.9	2.2	1.55324	6/13	450	56	730	87	88.3	89	0.67	0.78	0.82	65.3
47	64		307.9	9	2.2	2.4		6/13		70	1460	87.5	88.4	90	0.86	0.9	0.92	81.9
38	52	280S/M	493.58	5	1.8	2.2	3.33245	25/55	650	59	740	87.8	89.5	90.5	0.53	0.63	0.69	87.8
56	76		359.48	7	1.8	2.2		12/26		76	1485	89.5	90.5	91	0.83	0.86	0.88	101
46	63	280S/M	602.05	4.5	1.7	2	2.5692	30/66	690	59	735	89	90	90.2	0.53	0.63	0.7	105
67	91		430.42	7	2	2.2		15/33		76	1485	90.5	91.4	91.8	0.84	0.88	0.89	118
56	76	315S/M	726.29	5.5	1.8	2.1	3.21158	25/55	890	62	735	89.5	90.5	91	0.58	0.7	0.75	118
83	113		536.29	7.2	2	2.5		11/24		77	1480	90.5	91.5	92	0.84	0.88	0.9	145
78	106	315S/M	1006.14	7	1.8	2.2	5.28596	10/22	990	62	740	88.6	90.6	91.1	0.64	0.74	0.78	158
115	156		737.87	8.4	2	2.3		6/13		77	1485	88	90	91.2	0.88	0.9	0.92	198

Notes:

*Class "F" insulation with ΔT105K

Standard voltage, connection and frequency: 220-240V Δ 50Hz

380-415V Y 50Hz

380-415V Δ 50Hz

660-690V Y 50Hz

The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Two Speed Improved Efficiency EFF2 - Constant torque VI/IV Pole - Independent Winding

Output		IEC Frame	Full load torque C _n (Nm)	Locked rotor current I _r /I _n	Locked rotor torque T _r /T _n	Break-down torque T _b /T _n	Inertia J kgm ²	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _n (A)
												% of full load						
												Efficiency η			Power Factor (Cos φ)			
kW	HP		50	75	100	50	75	100										
50Hz - 400V - VI/IV pole (1000/1500 rpm) - Y / Y connection																		
0.22	0.3	80	4	2.19	2.3	2.8	0.00346	11/24	12	43	960	37	46	52	0.41	0.5	0.56	1.09
0.32	0.43		5.2	2.07	2.1	2.6		6/13		44	1460	48	55	61	0.4	0.51	0.59	1.28
0.26	0.36	80	3.5	2.63	2.1	2.7	0.00346	12/26	12	43	960	37	46	52	0.43	0.52	0.6	1.2
0.4	0.55		5	2.65	1.8	2.9		8/18		44	1460	50	58	62	0.49	0.6	0.69	1.35
0.38	0.52	90S	6.2	3.77	2.4	3.3	0.0056	6/13	16	45	970	48	58	63.7	0.4	0.5	0.59	1.46
0.65	0.88		6.4	4.23	2	2.9		5/11		49	1460	61.5	68	72.3	0.52	0.64	0.74	1.75
0.55	0.75	90L	4	5.49	2.2	2.9	0.00672	12/26	20	45	960	52	60	65	0.41	0.52	0.61	2
0.9	1.22		5.6	5.95	2	2.8		5/11		49	1440	67	72	73	0.54	0.67	0.77	2.31
0.9	1.22	100L	4.7	9.07	2.2	2.4	0.01121	9/20	21	44	945	59	65	67.7	0.51	0.62	0.71	2.7
1.3	1.75		5.8	8.54	1.8	2.4		8/18		53	1440	69.5	72	72.4	0.61	0.72	0.81	3.2
1.1	1.5	100L	4.5	11.21	2.1	2.3	0.00925	9/20	25	44	940	65	69	69.2	0.48	0.61	0.74	3.1
1.7	2.3		6	11.22	2	2.7		5/11		53	1440	73.5	76.5	76.7	0.56	0.7	0.8	4
1.5	2	112M	5.8	14.48	2.6	3	0.01889	10/22	36	48	970	70	74	77	0.51	0.62	0.69	4.08
2.3	3.1		6.6	14.91	1.8	2.6		5/11		56	1460	73	76	78	0.63	0.75	0.81	5.25
2	2.7	132S	6.2	19.25	2.8	3.2	0.05072	9/20	68	52	985	63	70	73	0.45	0.57	0.66	5.99
3.1	4.2		7.8	20.21	2.2	2.9		12/26		60	1460	82	84	84.2	0.64	0.75	0.83	6.4
2.8	3.8	132M	7.9	27.1	2.5	2.9	0.06242	9/20	79	52	985	77	81	82	0.48	0.6	0.69	7.14
4.3	5.8		7.2	27.81	2.2	2.5		8/18		60	1465	80	81	82	0.7	0.8	0.85	8.9
4.3	5.8	160M	5.5	41.78	2	2.6	0.11565	8/18	96	56	975	79	80	81	0.59	0.74	0.82	9.34
6.6	9		6.9	42.86	2	3		5/11		67	1475	76	80	82	0.6	0.75	0.84	13.8
5.7	7.7	160L	5.7	55.47	2	2.6	0.14456	7/15	127	56	975	80.5	81.5	82.6	0.6	0.75	0.83	12
8.7	11.8		6	56.38	1.9	3		6/13		67	1470	79.2	82.5	83.4	0.67	0.8	0.87	17.3
9.5	13	180L	8.4	93.17	2.5	2.9	0.30532	5/11	179	56	980	86	86.5	87	0.78	0.86	0.87	18.1
14	19		8.6	90.79	2.1	3		5/11		64	1470	86.5	87	87.2	0.88	0.91	0.92	25.2
11	15	180L	6.8	108.06	1.7	2.5	0.33308	5/11	200	56	975	84	85	85.5	0.74	0.84	0.88	21.1
16.5	22.5		9.3	107.51	2.2	2.9		5/11		64	1470	86.5	87.5	88	0.81	0.89	0.92	29.4
16	21.7	200L	7	154.74	2.7	2.8	0.46939	8/18	280	58	985	88	89.5	90	0.64	0.75	0.81	31.7
24	32.6		7	155.24	2.3	2.6		10/22		69	1475	88.5	90	90	0.8	0.87	0.89	43.2
21	28.5	225S/M	7	202.2	2.8	3	0.77479	7/15	379	61	990	84	87	88.3	0.55	0.68	0.78	44
31	42		7.7	197.99	2.5	3.3		7/15		70	1490	85	87.5	88.5	0.7	0.8	0.86	58.8
25	34	225S/M	7	241.23	2.9	3.2	0.91566	7/15	469	61	990	85	87	88	0.52	0.66	0.74	55.4
37	50		8.1	237.3	2.4	3.2		7/15		70	1480	90.5	91	91.5	0.76	0.85	0.88	66.3
32	43.5	250S/M	6.8	308.63	2.7	3.4	1.16219	6/13	520	61	990	86.3	88	89	0.57	0.69	0.77	67.4
47	64		8.6	302.72	2.6	3.4		7/15		70	1485	90	91.5	92	0.76	0.85	0.88	83.8
45	60	280S/M	7.1	423.56	2.9	2.4	2.58594	11/24	685	66	995	87	89	90	0.6	0.7	0.75	96.2
66	90		8.5	425.69	2.3	3		11/24		76	1485	89	91	92	0.72	0.82	0.86	120
54	73	280S/M	7.1	517.93	3	2.5	3.07081	14/31	810	66	990	89	90.3	91	0.58	0.7	0.75	114
80	109		8.4	515.56	2.6	3.1		10/22		76	1485	91	92.2	92.5	0.71	0.81	0.86	145
60	80	315S/M	6	567.59	2.2	2.2	4.82631	11/24	898	69	990	86	89	90	0.6	0.7	0.75	128
90	125		8	591.24	2.7	2.9		9/20		77	1485	89	91	91.5	0.71	0.8	0.85	167
62	84	315S/M	7.7	595.97	3	3.3	3.39405	11/24	898	69	990	85	88.5	90	0.56	0.67	0.72	138
92	126		8.5	595.97	2.8	2.9		9/20		77	1485	88	90.5	91.5	0.8	0.86	0.87	169
75	100	315S/M*	7	709.49	2.9	2.8	3.79811	5/11	1005	69	990	86	89	90	0.6	0.69	0.75	160
110	150		6.6	711.89	2.2	2.4		5/11		77	1480	89	91	92	0.81	0.86	0.88	196

Fan and Exhaust Application Motors Cast Iron Frame - Three Speed Improved Efficiency EFF2

Output		IEC Frame	Locked rotor current I_r/I_n	Full load torque C_n (Nm)	Locked rotor torque T_r/T_n	Break-down torque T_b/T_n	Inertia J (kgm ²)	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated Speed (rpm)	400V						Full load Current In (A)
												Efficiency η			Power Factor (Cos ϕ)			
kW	HP											% of full load						
												50	75	100	50	75	100	
VIII/VI/IV																		
0,15	0,2	90L	1,94	3	2,1	2,5	0,007	30/66	24	43	725	31	38	43	0,42	0,49	0,56	0,9
0,75	1		4,81	5,2	1,9	2,6	0,007	5/11	24	49	1460	56,5	64	67,5	0,47	0,6	0,7	2,29
0,25	0,33		2,4	4	1,9	2,5	0,007	15/33	24	45	965	49	56	58	0,44	0,54	0,63	0,988
0,22	0,3	90L	2,93	3,4	2,1	2,6	0,006	30/66	23	43	720	37	46	50	0,4	0,47	0,54	1,18
1	1,36		6,59	5,6	1,8	2,6	0,006	5/11	23	49	1450	66	71	72	0,54	0,67	0,76	2,64
0,3	0,4		2,88	4,3	2,5	3,3	0,006	15/33	23	45	975	46	54	58	0,38	0,47	0,55	1,36
0,37	0,5	100L	4,84	3,4	2	2,5	0,008	30/66	30	50	725	44	53	57	0,36	0,45	0,53	1,77
1,5	2		9,69	6,2	2	3	0,008	5/11	30	53	1450	71	76	77	0,55	0,67	0,78	3,6
0,6	0,8		5,79	4,4	2,1	2,7	0,008	8/18	30	44	970	58	66	68	0,4	0,5	0,58	2,2
0,45	0,6	100L	5,85	3,2	1,8	2,4	0,011	30/66	33	50	720	47	55	59	0,37	0,45	0,54	2,04
1,9	2,6		12,64	6	2	2,6	0,011	5/11	33	53	1445	74	77,5	78	0,56	0,69	0,78	4,51
0,7	0,95		6,91	4,5	2,2	2,7	0,011	18	33	44	965	61	67,5	68	0,41	0,52	0,61	2,44
0,6	0,8	112M	7,91	3,7	1,8	2,1	0,026	30/66	49	46	710	62	67	68	0,46	0,58	0,66	1,93
2,4	3,3		16,1	6,5	2,2	2,8	0,026	5/11	49	56	1440	75	78	79	0,62	0,76	0,81	5,41
0,85	1,15		8,33	5	2	2,7	0,026	10/22	49	48	970	63	69	71	0,45	0,56	0,65	2,66
0,8	1,1	132S	10,51	4,4	1,6	2,8	0,074	40/88	70	48	735	64	71	74	0,35	0,44	0,53	2,94
3,8	5,2		24,93	8,5	3	3,3	0,074	6/13	70	60	1465	79	82	83	0,59	0,72	0,79	8,36
1,3	1,8		12,9	6,5	2	2,8	0,074	15/33	70	52	980	72	76	77	0,51	0,63	0,71	3,43
1,1	1,5	132M	14,33	4,2	1,5	2,6	0,094	30/66	88	48	735	66	72	75	0,36	0,47	0,55	3,85
4,4	5,9		28,19	9,4	2,9	3,2	0,094	5/11	88	60	1470	78	82	83	0,56	0,69	0,78	9,81
1,5	2		14,33	6,7	2	2,8	0,094	20/44	88	52	980	76	80	81	0,52	0,64	0,73	3,66
1,8	2,44	160M	23,32	4	1,8	2,2	0,145	30/66	126	51	735	73	77	78	0,46	0,59	0,66	5,05
7,5	10		47,46	7	1,5	2,9	0,145	5/11	126	67	1480	80	83	84	0,69	0,8	0,84	15,3
2,5	3,4		24,12	6,6	2,2	3,5	0,145	6/13	126	56	990	67,5	73,5	77	0,44	0,56	0,65	7,21
2,2	3	160L	28,67	4,2	2	2,3	0,007	20/44	17	51	735	74	77	78	0,45	0,57	0,66	6,17
9,2	12,5		59,53	6,5	1,9	2,4	0,007	5/11	17	67	1475	81	83	84	0,7	0,81	0,86	18,4
3,1	4,2		29,8	6,3	2,2	2,7	0,007	10/22	17	56	990	69	74,5	78	0,45	0,57	0,66	8,69

Notes:

*Class "F" insulation with $\Delta T105K$

Standard voltage, connection and frequency: 220-240V Δ 50Hz

380-415V Y 50Hz

380-415V Δ 50Hz

660-690V Y 50Hz

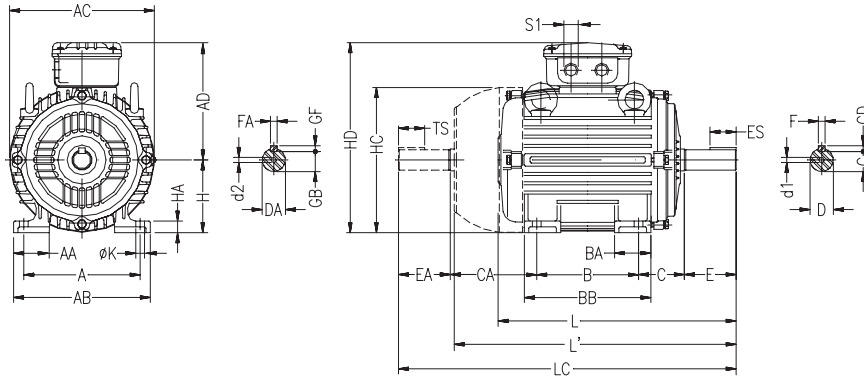
The values shown are subject to change without prior notice. To obtain guaranteed values please access our website.

Fan and Exhaust Application Motors Cast Iron Frame - Three Speed Improved Efficiency EFF2

Output		IEC Frame	Locked rotor current I_r/I_n	Full load torque C_n (Nm)	Locked rotor torque T_r/T_n	Break-down torque T_b/T_n	Inertia J (kgm ²)	Allowable locked rotor time Hot/Cold (s)	Weight (kg)	Sound dB (A)	Rated Speed (rpm)	400V						Full load Current In (A)
												Efficiency η			Power Factor (Cos ϕ)			
kW	HP											% of full load						
												50	75	100	50	75	100	
XII/VI/IV																		
0,06	0,08	90L	1,2	1,8	1,8	2,1	0,006	30/66	23	44	470	15	20	22	0,45	0,5	0,55	0,716
0,3	0,4		2,88	4	1,8	2,6	0,006	5/11	23	45	975	40	50	54	0,42	0,5	0,59	1,36
0,95	1,3		6,32	6	2	2,3	0,006	10/22	23	49	1445	68	71	72	0,54	0,67	0,77	2,47
0,11	0,15	100L	2,22	2,1	1,9	2,6	0,008	50/110	30	47	475	18	25	30	0,37	0,41	0,45	1,18
0,55	0,75		5,43	5	2	3	0,008	10/22	30	44	970	48	57	62	0,38	0,47	0,55	2,33
1,5	2		9,69	6,2	2	2,8	0,008	6/13	30	53	1450	74,5	77	78	0,55	0,68	0,78	3,56
0,18	0,25	112M	3,66	2,2	1,7	2,5	0,026	40/88	49	54	480	45	33	36	0,32	0,36	0,38	1,9
0,75	1		7,17	5,5	3	3,3	0,026	6/13	49	48	980	49	58	62	0,35	0,42	0,5	3,49
2	2,7		13,08	6,2	1,8	2,6	0,026	8/18	49	56	1450	76	78,5	79	0,67	0,78	0,82	4,46
0,25	0,33	132S	4,73	3	2,3	3,5	0,074	60/132	70	54	490	30	39	45	0,28	0,33	0,37	2,17
1,3	1,8		12,77	7	2,3	3,8	0,074	7/15	70	52	990	61	69	73	0,37	0,47	0,56	4,59
3,2	4,4		21,1	7,5	2	2,9	0,074	5/11	70	60	1465	75	79	81	0,64	0,76	0,83	6,87
0,4	0,55	132M	7,8	3,3	2,1	3,2	0,094	40/88	88	54	495	33	42	51	0,28	0,32	0,39	2,9
1,85	2,5		17,74	7	2,4	3,2	0,094	5/11	88	52	990	60	68	73	0,33	0,43	0,52	7,03
4,4	5,9		28,19	7,5	2	2,6	0,094	5/11	88	60	1470	79	81,5	82	0,66	0,78	0,86	9
0,66	0,9	160M	12,9	2,9	2,2	2,6	0,145	30/66	126	58	490	39	47,5	53	0,33	0,39	0,45	4
2,6	3,5		24,71	7	2,6	3	0,145	6/13	126	56	995	69	75	78	0,41	0,53	0,62	7,76
6,6	9		42,86	4	1,8	3	0,145	5/11	126	67	1475	76	81	84	0,59	0,72	0,81	14
0,9	1,22	160L	17,49	2,8	2,2	2,7	0,007	20/44	17	43	490	38	47	53	0,34	0,4	0,46	5,33
3,7	5		35,47	7,2	2,6	3	0,007	5/11	17	56	990	68	75	78	0,42	0,54	0,64	10,7
9,2	12,5		59,53	6,9	2	2,8	0,007	5/11	17	67	1475	80	83	84	0,71	0,82	0,88	18

Fan and Exhaust Application Motors Cast Iron Frame

Mechanical Data



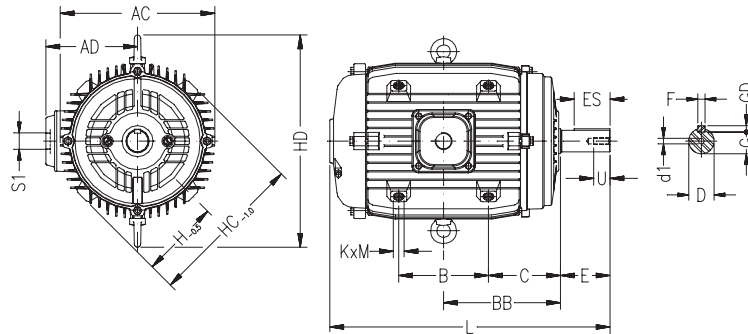
IEC FRAME	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT DIMENSIONS													H	HA	HC	HD	K	L'	L	LC	S1	d1	d2	BEARINGS	
											D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF	D.E.												N.D.E.	
63	100	21	116	125	113	80	22	95	40	78	11j6	23	14	4	8.5	4	9j6	20	12	3	7.2	3	63	8	124	124	7	182	216	241		EM4	EM3	6201-ZZ		
71	112	30	132	141	121	90	38	113.5	45	88	14j6	30	18	5	11	5	11j6	23	14	4	8.5	4	71	12	139	139	7	207	248	276	2xM20x1.5	DM5	EM4	6203-ZZ	6202-ZZ	
80	125	35	149	159	130	100	40	125.5	50	93	19j6	40	28	6	15.5	6	14j6	30	18		11		80	13	157	157	10	237	276	313		DM6	DM4	6204-ZZ	6203-ZZ	
90S	140	38	164	179	150	100	42	131	56	104	24j6	50	36	20	7	8	16j6	40	28	5	13	5	90	15	177	177	10	259	304	350	2xM25x1.5	DM8	DM6	6205-ZZ	6204-ZZ	
90L																																				125
100L	160	49	188	199	160	140	50	173	63	118	28j6	60	45	8	24	7	22j6	50	36	6	20	6	112	18.5	235	235	12	336	393	448		DM10	DM8	6307-ZZ	6206-ZZ	
112M	190	48	220	222	180	140	50	177	70	128	28j6	60	45	8	24	7	24j6	50	36	6	20	6	112	18.5	235	235	12	336	393	448		DM10	DM8	6307-ZZ	6206-ZZ	
132S	216	51	248	270	207	178	55	187	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7	132	20	274	274	12	393	452	519	2xM32x1.5	DM12	DM10	6308-ZZ	6207-ZZ	
132M																																				225
160M	254	64	308	312	250	210	65	254	108	174	42k6	110	80	12	37	8	42k6	110	80	12	37	8	160	22	317	317	14.5	530	598	712	2xM40x1.5	DM16		6309-C3	6209-Z-C3	
160L																																				254
180M	279	80	350	358	270	241	75	294	121	200	48k6	110	80	14	42.5	9	48k6	110	80	14	42.5	9	180	28	360	360	14.5	586	664	782	2xM40x1.5	DM16		6311-C3	6211-Z-C3	
180L																																				279
200M	318	82	385	396	294	267	85	370	133	222	55m6	110	80	16	49	10	55m6*	100	16	49	10	225	34	466	466	18.5	638	729	842	2xM50x1.5			6312-C3			
200L																																			305	370
225S/M	356	80	436	476	368	286	105	391	149	280	55m6*	110	80	16	49	10	55m6*	100	16	49	10	225	34	466	466	18.5	718	817	935	2xM50x1.5			6312-C3			
225S/M																																			311	255
250S/M	406	506	476	368	349	312	138	449	168	312	60m6*	140	125	18	11	58	60m6*	140	125	18	11	250	42	491	491	24	824	923	1071	2xM63x1.5			6314-C3	6212-Z-C3		
250S/M																																			349	274
280S/M	457	557	463	368	419	350	142	510	190	350	65m6*	140	125	20	67.5	12	65m6	140	125	18	11	280	58	578	578	24	937	1036	1188	2xM63x1.5			6316-C3			
280S/M																																			419	299
315S/M	508	120	628	600	492	406	152	558	216	376	65m6*	140	125	18	58	11	65m6*	140	125	18	11	315	52	613	613	28	1027	1126	1274	2xM63x1.5			6319-C3	6316-C3		
315S/M																																			457	325
355M/L	610	140	750	816	680	560	200	760	254	458	75m6*	140	125	20	67.5	12	80m6*	140	125	18	53	11	355	50	725	725	28	1248	1396	1561	2xM63x1.5			M20	6316-C3	6314-C3
355M/L																																				

*Shaft dimension for 11 pole motors, only for direct coupling.

All dimensions are given in millimeters.
Larger and smaller flanges, on request.
The values shown are subject to change without prior notice.

Fan and Exhaust Application Motors Cast Iron Frame

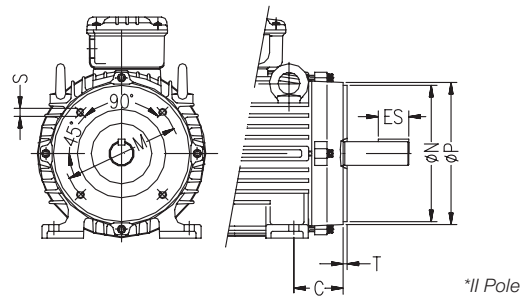
Mechanical Data



IEC FRAME	AC	AD	B	BB	C	SHAFT DIMENSIONS						H	HC	HD	L	d1	S1	KxM	BEARINGS			
						D	E	ES	F	G	GD								D.E.	N.D.E.		
71	196	91	71	90	54,5	14j6	30	18	5	11	5	75	150	-	207	DM5	NPT1/2"	M8x1.25x10	6203-ZZ	6202-ZZ		
80	196	100	80	100	60,0	19j6	40	28	6	15,5	6	85	170		238	DM6			6204-ZZ	6203-ZZ		
90S	174	110	65	106	73,5	24j6	50	36	8	20	7	95	190		258	283	DM8	NPT3/4"	M12x1.75x18	6205-ZZ	6204-ZZ	
90L			90	119																6206-ZZ	6205-ZZ	
100L	196	122	100	133	83,0	28j6	60	45	8	24	8	105	210		322	DM10	M25x1.5	NPT1"	M16x2x24	6307-ZZ	6206-ZZ	
112M	222	137	100	140	90,0							117	234	316	336					6308-ZZ	6207-ZZ	
132S	260	165	125	159	96,5	38k6	80	63	10	33	8	145	290	354	393	430	DM12	M20x1.5	NPT1.1/4"	M20x2.5x30	6309-C3	6209-Z-C3
132M			140	178	108,0																574	624
160M	300	185	156	213	135,0	42k6	110	80	12	37	8	161	322	410	530	DM16	M32x1.5	NPT1.1/2"	M24x3x45	6312-C3	6212-Z-C3	
160L			200	235	160,5							48k6	14	42,5	9					184,5	369	455
180L	345	205	200	260,5	160,5	48k6	110	80	14	42,5	9	184,5	369	455	624	DM16	M32x1.5	NPT1.1/2"	M20x2.5x30	6311-C3	6211-Z-C3	
200M	380	218	186	271	173,5	55m6	140	125	16	49	10	215,5	431	610	638	676	DM20	M40x1.5	NPT2"	M24x3x45	6312-C3	6212-Z-C3
200L			224	290	173,5	55m6															748	676
225S/M	476	276	224	305	192,5	*55m6	140	125	18	53	11	255	510	610	824	DM20	M63x1.5	NPT3"	M24x3x45	6312-C3	6212-Z-C3	
250S/M				343	230,5	*60m6														58	6312-C3	6212-Z-C3

"FF" Flange

IEC FRAME	"C" DIN FLANGE DIMENSIONS							N° OF HOLES
	FLANGE	C	M	N	P	S	T	
63	C-90	40	75	60	90	M5	2.5	4
71	C-105	45	85	70	105	M6		
80	C-120	50	100	80	120	M8	3	
90S/L	C-140	56	115	95	140		3.5	
100L	C-160	63	130	110	160	M10	3.5	4
112M		70	130	110	160			
132S/M	C-200	89	165	130	200	M10	3.5	4



"C" Din Flange

IEC FRAME	"FF" FLANGE DIMENSIONS									N° OF HOLES
	FLANGE	C	LA	M	N	P	T	S	α	
63	FF-115	40	9	115	95	140	3	10	45°	4
71	FF-130	45		130	110	160	3			
80	FF-165	50	10	165	130	200	3.5	12		
90S/L		56								
100L	FF-215	63	11	215	180	250	4	15		
112M	70									
132S/M	FF-265	89	12	265	230	300	5	19		
160M/L	FF-300	108							18	300
180M/L	121									
200M/L	FF-350	133	18	350	300	400	5	19		
225S/M	FF-400	149							22	400
250S/M	FF-500	168	22	500	450	550	6	24		
280S/M	190									
315S/M	FF-600	216	22	600	550	660	6	24		
355M/L	FF-740	254							22	740

