

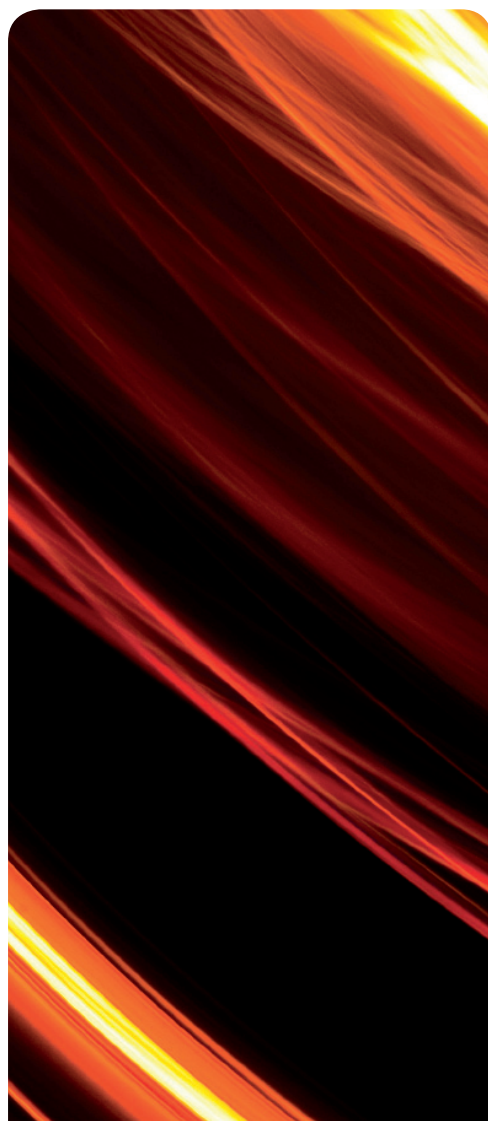


SERIE ECOL

MOTORI ASINCRONI TRIFASI

ALTA EFFICIENZA

IE1 • IE2 • IE3



SERIE ECOL

La Serie ECOL è realizzata in conformità dei nuovi Standard Europei relativamente ai livelli di efficienza, i motori possono essere forniti in efficienza standard IE1, in alta efficienza IE2, e in alta efficienza Premium IE3. L'International Electrotechnical Commission (IEC), nell'intento di ridurre l'impatto delle attività industriali sull'ambiente riducendo le emissioni di CO₂ nell'atmosfera, nel 2008 ha elaborato i nuovi Standard IEC 60034-30, con l'intento di definire le nuove classi di efficienza per i motori elettrici asincroni trifasi ad una velocità, a 50Hz ed a 60Hz.

Le classi di efficienza definite dalle IEC 60034-30 sono definite per le seguenti tipologie di motori asincroni trifasi ad una sola velocità alimentati a 50Hz o a 60Hz:

- 2,4,6 poli
- potenza da 0,75Kw a 375Kw
- tensione di alimentazione fino a 1000V
- servizio S1 o S3 80% o superiore
- alimentazione diretta da rete

In accordo con la norma Europea EC No. 64072009 basata sulla norma internazionale IEC 60034-30 i limiti minimi di efficienza sono quelli fissati nella tabella sottoriportata.

Pot. nominale <i>Rated power</i> kW	Standard Efficiency (IE1)			High Efficiency (IE2)			Premium Efficiency (IE3)		
	<i>Number of poles</i>			<i>Number of poles</i>			<i>Number of poles</i>		
	2	4	6	2	4	6	2	4	6
0.75	72.1	72.1	70	77.4	79.6	75.9	80.7	82.5	78.9
1.1	75	75	72.9	79.6	81.4	78.1	82.7	84.1	81
1.5	77.2	77.2	75.2	81.3	82.8	79.8	84.2	85.3	82.5
2.2	79.7	79.7	77.7	83.2	84.3	81.8	85.9	86.7	84.3
3	81.5	81.5	79.7	84.6	85.5	83.3	87.1	87.7	85.6
4	83.1	83.1	81.4	85.8	86.6	84.6	88.1	88.6	86.8
5.5	84.7	84.7	83.1	87	87.7	86	89.2	89.6	88
7.5	86	86	84.7	88.1	88.7	87.2	90.1	90.4	89.1
11	87.6	87.6	86.4	89.4	89.8	88.7	91.2	91.4	90.3
15	88.7	88.7	87.7	90.3	90.6	89.7	91.9	92.1	91.2
18.5	89.3	89.3	88.6	90.9	91.2	90.4	92.4	92.6	91.7
22	89.9	89.9	89.2	91.3	91.6	90.9	92.7	93	92.2
30	90.7	90.7	90.2	92	92.3	91.7	93.3	93.6	92.9
37	91.2	91.2	90.8	92.5	92.7	92.2	93.7	93.9	93.3
45	91.7	91.7	91.4	92.9	93.1	92.7	94	94.2	93.7
55	92.1	92.1	91.9	93.2	93.5	93.1	94.3	94.6	94.1
75	92.7	92.7	92.6	93.8	94	93.7	94.7	95	94.6
90	93	93	92.9	94.1	94.2	94	95	95.2	94.9
110	93.3	93.3	93.3	94.3	94.5	94.3	95.2	95.4	95.1
132	93.5	93.5	93.5	94.6	94.7	94.6	95.4	95.6	95.4
160	93.8	93.8	93.8	94.8	94.9	94.8	95.6	95.8	95.6
200-375	94	94	94	95	95.1	95	95.8	96	95.8

I motori elettrici consumano circa il 70% dell'energia utilizzata dall'industria, utilizzando i sistemi ad alta efficienza il risparmio di costo in energia consumata è previsto tra il 20% ed il 30%, la parte principale di questo risparmio si ottiene utilizzando motori ad alta efficienza.

Per verificare la conformità dei motori elettrici ai nuovi Standard di efficienza devono essere testati in accordo alle nuove normative IEC 60034-2-1 del 2007.

I motori elettrici asincroni trifasi a 2, 4, 6 poli, esclusi dalle norme IEC 60034-30 sono:

- motori elettrici costruiti solamente per essere alimentati tramite convertitore.
- motori elettrici integrati in macchinari come pompe, compressori, ventilatori, etc., in cui non si può testare l'efficienza del motore separatamente dal macchinario in cui è inserito.

Motori elettrici asincroni trifasi esclusi dalla normativa EC 640/2009:

- motori elettrici progettati per funzionare immersi interamente in un liquido
- motori elettrici integrati in macchinari come pompe, compressori, ventilatori, etc., in cui non si può testare l'efficienza del motore separatamente dal macchinario in cui è inserito.
- motori elettrici autofrenanti
- motori elettrici progettati per operare alle seguenti condizioni:
 - .ad una altitudine superiore a 1000 metri sul livello del mare
 - .a temperatura ambiente superiore a 40°C
 - .a temperatura di funzionamento superiore a 400°C
 - .quando la temperatura ambiente è inferiore a -15°C per tutti i tipi di motori elettrici oppure quando la temperatura ambiente è inferiore a 0°C per i motori elettrici in ambienti con potenziale atmosfera esplosiva come definito nella Direttiva EC 94/9.

SCADENZE:

- Dal 16 Giugno 2011 i motori elettrici devono avere livello minimo di efficienza IE2
- dal 1 Gennaio 2015 i motori elettrici con potenza resa da 7,5Kw a 375Kw devono avere livello minimo di efficienza IE3 oppure IE2 se alimentati tramite azionamento a velocità variabile
- dal 1 Gennaio 2017 i motori elettrici con potenza resa da 0,75Kw a 375Kw devono avere livello minimo di efficienza IE3 oppure IE2 se alimentati tramite azionamento a velocità variabile

CERTIFICATI

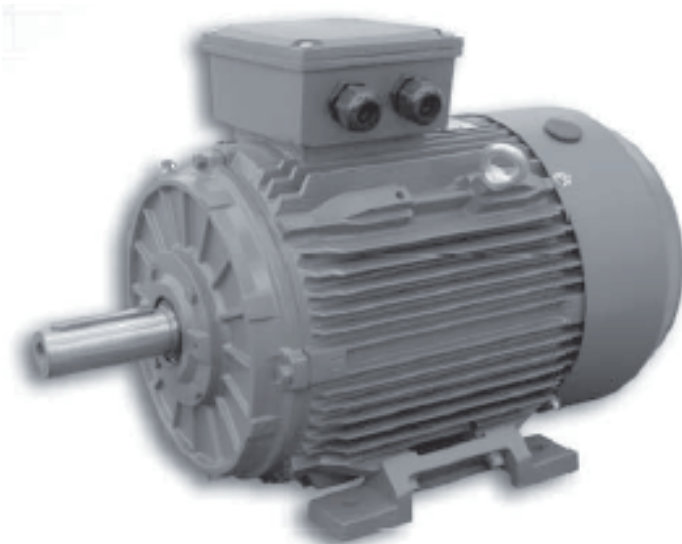
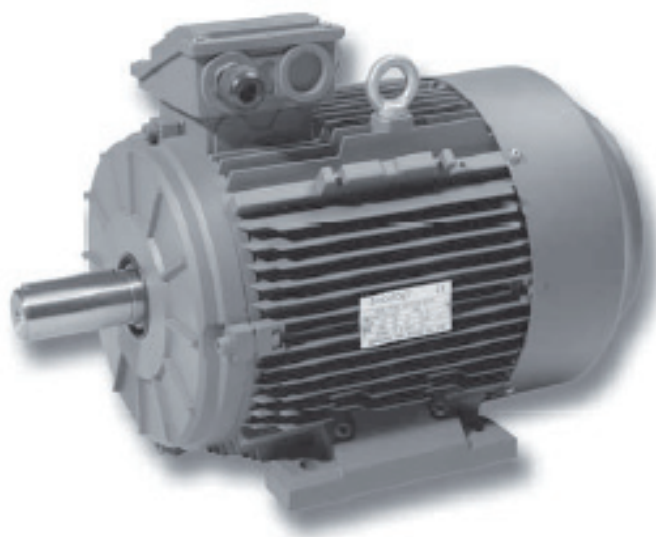


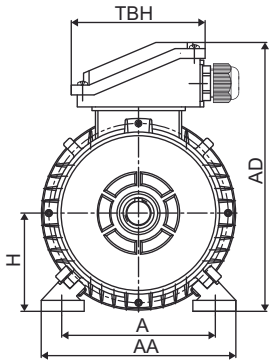
CARATTERISTICHE

- Risparmio energetico, alta efficienza
- Alta coppia di spunto, bassa corrente di spunto
- Versatilità
- Piedi rimovibili da grandezza 56 a grandezza 280
- carcassa in alluminio da grandezza 56 a grandezza 200, in ghisa da grandezza 132 a grandezza 355
- Possibilità di avere la scatola morsettiera in alto, a destra o a sinistra, ruotabili di 90° in 90°.
- Classi di Efficienza IE1, IE2, IE3
- Possibilità di avere motori in classe di efficienza NEMA EPACT e Premium
- Protezioni termiche di serie dalla grandezza 160
- Grado di protezione IP55
- Raffreddamento di serie IC411 (autoventilato), tutti i motori possono essere forniti, a richiesta, con sistema di ventilazione IC416 (servoventilazione)
- Tutti i materiali isolanti utilizzati sono in classe di isolamento F o H, i motori elettrici in classe di efficienza IE1 sono realizzati in classe di isolamento F, i motori elettrici in classe di efficienza IE2 sono realizzati in classe di isolamento F con sovratemperatura di lavoro in classe B

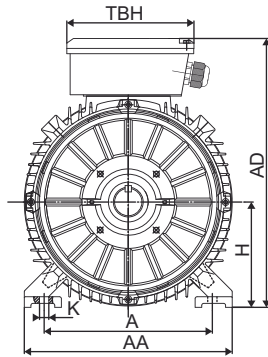
APPLICAZIONI

- Pompe
- Depuratori
- Compressori
- Ventilatori
- Riduttori e trasmissione di potenza
- Mulini
- Cartiere
- Acciaierie
- Miniere
- Macchine automatiche
- Agricoltura
- Imballaggio e movimentazione
- Sollevamento ed ascensori
- Presse
- etc.

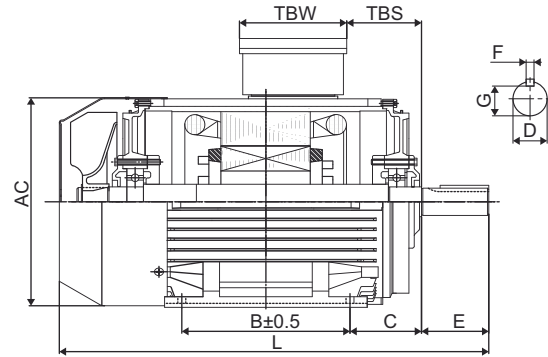




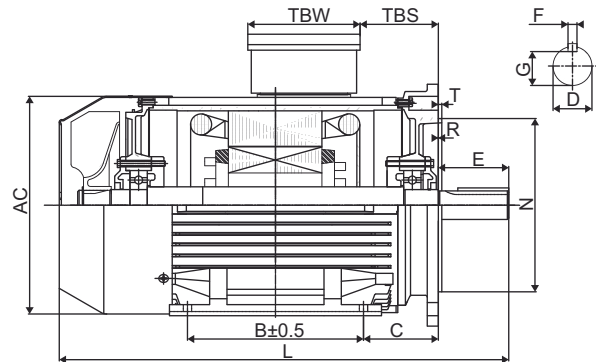
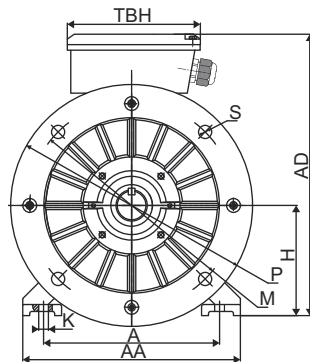
Alu.housing



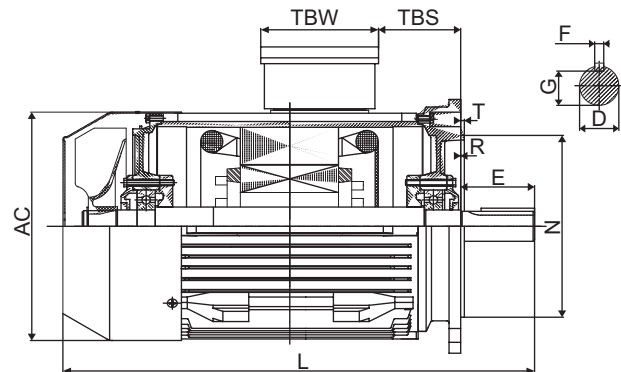
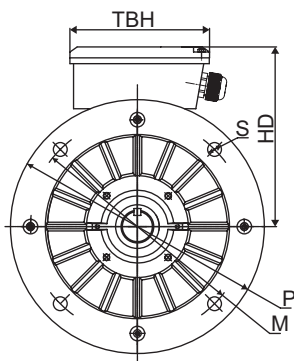
C.I.housing



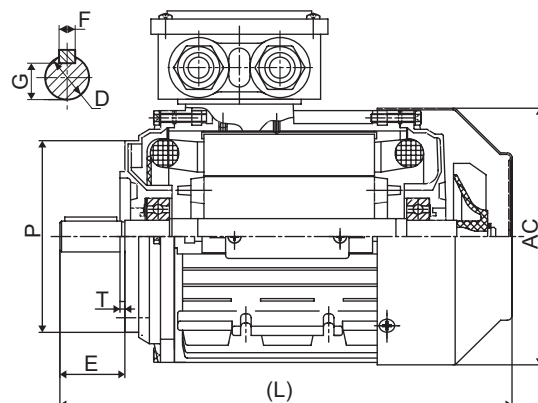
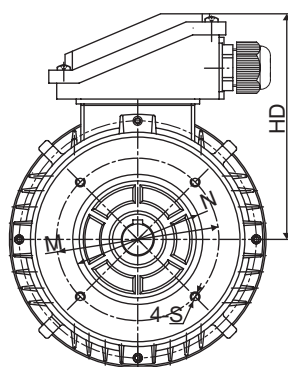
IM B3



IM B35



IM B5



IM B14

DIMENSIONI DI INGOMBRO ED INSTALLAZIONE

Frame		Foot Mounting				Shaft					General							
		H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH
80		80	125	100	50	Φ19	40	6	15.5	Φ9	160	220	140	Φ158	280	16	97	97
90S/L		90	140	100/125	56	Φ24	50	8	20	Φ10	175	240	150	Φ176	325/350	16	97	97
100		100	160	140	63	Φ28	60	8	24	Φ12	200	265	165	Φ199	388	20	118	118
112		112	190	140	70	Φ28	60	8	24	Φ12	230	291	179	Φ220	405	29	118	118
132S/M		132	216	140/178	89	Φ38	80	10	33	Φ12	255	332	200	Φ259	467/505	29	118	118
160M/L		160	254	210/254	108	Φ42	110	12	37	Φ15	314	402	242	Φ313	605/650	91	162	187
180M/L		180	279	241/279	121	Φ48	110	14	42.5	Φ15	348	439	259	Φ360	687/725	160/180	162	187
200L		200	318	305	133	Φ55	110	16	49	Φ19	388	497	297	Φ399	768	192	186	233
225S	4,8	225	356	286	149	Φ60	140	18	53	Φ19	436	553	328	Φ465	814	190	186	233
225M	2	225	356	311	149	Φ55	110	16	49	Φ19	436	553	328	Φ465	809	202	186	233
	4,6,8	225	356	311	149	Φ60	140	18	53	Φ19	436	553	328	Φ465	839	202	186	233
250M	2	250	406	349	168	Φ60	140	18	53	Φ24	484	616	366	Φ506	918	233	218	260
	4,6,8	250	406	349	168	Φ65	140	18	58	Φ24	484	616	366	Φ506	918	233	218	260
280S/M	2	280	457	368/419	190	Φ65	140	18	58	Φ24	557	668	388	Φ559	984/1035	265	218	260
	4,6,8	280	457	368/419	190	Φ75	140	20	67.5	Φ24	557	668	388	Φ559	984/1035	265	218	260
315S	2	315	508	406	216	Φ65	140	18	58	Φ28	630	840	525	Φ680	1160	130	350	430
	4,6,8	315	508	406	216	Φ80	170	22	71	Φ28	630	840	525	Φ680	1190	130	350	430
315M/L	2	315	508	457/508	216	Φ65	140	18	58	Φ28	630	840	525	Φ680	1310	130	350	430
	4,6,8	315	508	457/508	216	Φ80	170	22	71	Φ28	630	840	525	Φ680	1340	130	350	430
355M/L	2	355	610	560/630	254	Φ75	140	20	67.5	Φ28	740	920	565	Φ820	1770	180	350	430
	4,6,8	355	610	560/630	254	Φ95	170	25	86	Φ28	740	920	565	Φ820	1840	180	350	430

Frame		Bearings		Cable Gland	B5						B14					
		Drive End	Non-Drive End		N	M	P	S	T	R	N	M	P	S	T	R
80		6204ZZ		1-M20×1.5	Φ130	Φ165	Φ200	4-Φ12	3.5	0	Φ80	Φ100	Φ118	M6	3	0
90S/L		6205ZZ		1-M20×1.5	Φ130	Φ165	Φ200	4-Φ12	3.5	0	Φ95	Φ115	Φ138	M8	3	0
100		6206ZZ		1-M20×1.5	Φ180	Φ215	Φ250	4-Φ15	4	0	Φ110	Φ130	Φ158	M8	3.5	0
112		6306ZZ		2-M25×1.5	Φ180	Φ215	Φ250	4-Φ15	4	0	Φ110	Φ130	Φ158	M8	3.5	0
132S/M		6308ZZ		2-M25×1.5	Φ230	Φ265	Φ300	4-Φ15	4	0	Φ130	Φ165	Φ198	M10	3.5	0
160M/L		6309C3		2-M32×1.5	Φ250	Φ300	Φ350	4-Φ19	5	0						0
180M/L		6311C3		2-M32×1.5	Φ250	Φ300	Φ350	4-Φ19	5	0						0
200L		6312C3		2-M40×1.5	Φ300	Φ350	Φ400	4-Φ19	5	0						0
225S	4,8	6313C3		2-M50×1.5	Φ350	Φ400	Φ450	8-Φ19	5	0						0
225M	2				Φ350	Φ400	Φ450	8-Φ19	5	0						0
	4,6,8				Φ350	Φ400	Φ450	8-Φ19	5	0						0
250M	2	6314C3		2-M50×1.5	Φ400	Φ500	Φ550	8-Φ19	5	0						0
	4,6,8				Φ400	Φ500	Φ550	8-Φ19	5	0						0
280S/M	2	6316C3		2-M50×1.5	Φ400	Φ500	Φ550	8-Φ19	5	0						0
	4,6,8				Φ400	Φ500	Φ550	8-Φ19	5	0						0
315S/M/L	2	6314C3		2-M63×1.5	Φ550	Φ600	Φ660	8-Φ24	6	0						0
	4,6,8	NU319	6319C3		Φ550	Φ600	Φ660	8-Φ24	6	0						0
355M/L	2	6319C3		2-M63×1.5	Φ680	Φ740	Φ800	8-Φ24	6	0						0
	4,6,8	NU322	6322C3		Φ680	Φ740	Φ800	8-Φ24	6	0						0

FORME COSTRUTTIVE

Le forme costruttive secondo lo standard IEC 60034-7 relativamente ad i motori standard sono quelle riportate nella **tabella 1**

tabella 1

Frame No.	Basic			Variations								
	B3	B5	B35	Based On B5		Based On B3					Based On B35	
				V1	V3	V5	V6	B6	B7	B8	V15	V36
												
H80~160	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
H180~225	✓	✓	✓	✓	—	—	—	—	—	—	—	—
H250~355	✓	—	✓	✓	—	—	—	—	—	—	—	—



MOTORI ELETTRICI EFFICIENZA IE1 - DATI TECNICI

Model	Power (KW)	Full Load Speed (r/min)	I _n 400V (A)	I _n 400V (A)	I _{st} /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{mn} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
801-2	0.75	2838	1.09	2.06	5	72.1	0.73	2.52	2.2	1.9	2.6
802-2	1.1	2836	1.54	2.90	5	75	0.73	3.70	2.2	1.8	2.6
90S-2	1.5	2842	1.98	3.79	5	77.2	0.74	5.04	2.2	1.8	2.5
90L-2	2.2	2835	2.39	5.04	5.5	79.7	0.79	7.41	2.2	1.8	2.5
100L-2	3	2841	2.97	6.56	5.5	81.5	0.81	10.08	2.3	1.9	2.6
112M-2	4	2900	3.88	8.58	6	83.1	0.81	13.17	2.4	1.9	2.6
132S1-2	5.5	2895	4.65	11.16	6	84.7	0.84	18.14	2.3	2	2.6
132S2-2	7.5	2900	5.98	14.81	6.4	86	0.85	24.70	2.3	2	2.7
160M1-2	11	2910	7.85	20.83	6.3	87.6	0.87	36.10	2.3	2	2.7
160M2-2	15	2908	10.57	28.06	6.8	88.7	0.87	49.26	2.3	2	2.7
160L-2	18.5	2912	11.69	33.60	7	89.3	0.89	60.67	2.3	2	2.7
180M-2	22	2920	13.81	39.69	7.2	89.9	0.89	71.95	2.3	2	2.6
200L1-2	30	2915	18.67	53.64	7	90.7	0.89	98.28	2.3	2	2.6
200L2-2	37	2920	22.90	65.80	7.2	91.2	0.89	121.00	2.3	2	2.7
225M-2	45	2920	26.21	78.70	7	91.7	0.90	147.16	2.3	2	2.7
250M-2	55	2930	35.47	97.85	7.8	92.2	0.88	179.25	2.2	1.9	2.5
280S-2	75	2930	45.66	131.22	7.8	92.7	0.89	244.44	2.1	1.9	2.5
280M-2	90	2930	51.68	155.21	7.7	93	0.90	293.32	2.1	1.9	2.5
315S-2	110	2940	62.97	189.09	7.7	93.3	0.90	357.29	2	1.8	2.3
315M-2	132	2940	71.12	223.93	7.6	93.5	0.91	428.74	2	1.8	2.3
315L1-2	160	2945	91.10	273.57	7.8	93.8	0.90	518.81	2	1.8	2.3
315L2-2	200	2945	120.08	345.07	7.9	94	0.89	648.51	2	1.8	2.3
355M-2	250	2945	142.04	426.54	7.8	94	0.90	810.64	2	1.8	2.3
355L-2	315	2945	189.13	543.48	7.8	94	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
802-4	0.75	1410	1.03	2.00	5.4	72.1	0.75	5.08	2.2	1.9	2.6
90S-4	1.1	1415	1.32	2.71	5.3	75	0.78	7.42	2.2	1.8	2.6
90L-4	1.5	1410	1.74	3.60	5.5	77.2	0.78	10.16	2.2	1.8	2.5
100L1-4	2.2	1420	2.31	4.98	6	79.7	0.80	14.79	2.2	1.8	2.5
100L2-4	3	1420	3.08	6.64	6	81.5	0.80	20.17	2.3	1.9	2.6
112M-4	4	1425	3.74	8.47	6.3	83.1	0.82	26.81	2.4	1.9	2.6
132S-4	5.5	1420	4.85	11.29	6.5	84.7	0.83	36.99	2.3	2	2.6
132M-4	7.5	1420	5.98	14.81	6.4	86	0.85	50.44	2.3	2	2.7
160M-4	11	1430	8.61	21.32	6.8	87.6	0.85	73.46	2.3	2	2.7
160L-4	15	1435	10.06	27.74	6.7	88.7	0.88	99.82	2.3	2	2.7
180M-4	18.5	1435	12.32	33.98	7.2	89.3	0.88	123.11	2.3	2	2.7
180L-4	22	1450	15.29	40.60	7.3	89.9	0.87	144.89	2.3	2	2.6
200L-4	30	1450	18.67	53.64	7.6	90.7	0.89	197.57	2.3	2	2.6
225S-4	37	1460	22.90	65.80	7.5	91.2	0.89	242.00	2.3	2	2.7
225M-4	45	1470	29.18	80.49	7.3	91.7	0.88	292.33	2.3	2	2.7
250M-4	55	1470	33.70	96.85	7.4	92.1	0.89	357.29	2.2	1.9	2.5
280S-4	75	1470	48.11	132.71	7.5	92.7	0.88	487.21	2.1	1.9	2.5
280M-4	90	1470	51.68	155.21	7.7	93	0.90	584.65	2.1	1.9	2.5
315S-4	110	1475	62.97	189.09	7.8	93.3	0.90	712.15	2	1.8	2.3
315M-4	132	1475	71.12	223.93	7.8	93.5	0.91	854.58	2	1.8	2.3
315L1-4	160	1475	85.93	270.56	7.9	93.8	0.91	1035.86	2	1.8	2.3
315L2-4	200	1475	113.63	341.23	7.7	94	0.90	1294.82	2	1.8	2.3
355M-4	250	1475	150.10	431.33	7.9	94	0.89	1618.52	2	1.8	2.3
355L-4	315	1475	178.97	537.44	7.8	94	0.90	2039.34	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
90S-6	0.75	930	1.16	2.15	5.3	70	0.72	7.70	2.2	1.9	2.6
90L-6	1.1	930	1.63	3.02	5	72.9	0.72	11.29	2.2	1.8	2.6
100L-6	1.5	935	2.09	3.94	4.9	75.2	0.73	15.32	2.2	1.8	2.5
112M-6	2.2	935	2.97	5.60	5.7	77.7	0.73	22.47	2.2	1.8	2.5
132S-6	3	935	3.95	7.44	6.3	79.7	0.73	30.64	2.3	1.9	2.6
132M1-6	4	940	5.01	9.59	6.2	81.4	0.74	40.64	2.4	1.9	2.6
132M2-6	5.5	940	6.34	12.57	6.8	83.1	0.76	55.87	2.3	2	2.6
160M-6	7.5	950	8.49	16.82	7	84.7	0.76	75.39	2.3	2	2.7
160L-6	11	955	11.43	23.56	7.3	86.4	0.78	109.99	2.3	2	2.7
180L-6	15	955	14.84	31.25	7.2	87.7	0.79	149.99	2.3	2	2.7
200L1-6	18.5	960	15.58	36.31	6.9	88.6	0.83	184.02	2.3	2	2.7
200L2-6	22	960	18.41	42.89	7.3	89.2	0.83	218.84	2.3	2	2.6
225M-6	30	970	24.82	57.84	7.4	90.2	0.83	295.34	2.3	2	2.6
250M-6	37	970	27.94	69.20	7.5	90.8	0.85	364.25	2.3	2	2.7
280S-6	45	975	32.26	82.63	7.7	91.4	0.86	440.74	2.3	2	2.7
280M1-6	55	975	37.40	99.29	7.7	91.9	0.87	538.68	2.2	1.9	2.5
315S-6	75	975	45.71	131.36	7.9	92.6	0.89	734.56	2.1	1.9	2.5
315M-6	90	975	51.74	155.37	8	92.9	0.90	881.47	2	1.8	2.3
315L1-6	110	975	62.97	189.09	7.7	93.3	0.90	1077.36	2	1.8	2.3
315L2-6	132	975	79.68	228.96	8	93.5	0.89	1292.83	2	1.8	2.3
355M1-6	160	975	85.93	270.56	7.6	93.8	0.91	1567.06	2	1.8	2.3
355M2-6	200	975	113.63	341.23	7.8	94	0.90	1958.83	2	1.8	2.3
355L-6	250	975	150.10	431.33	7.8	94	0.89	2448.54	2	1.8	2.3

MOTORI ELETTRICI EFFICIENZA IE2 - DATI TECNICI

Model	Power (KW)	Full Load Speed (r/min)	I _n 400V (A)	I _n 400V (A)	I _{st} /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
801-2	0.75	2848	0.96	1.86	6	77.4	0.75	2.51	2.7	2.1	2.8
802-2	1.1	2846	1.20	2.52	6.7	79.6	0.79	3.69	2.7	2.1	2.9
90S-2	1.5	2852	1.32	3.17	6.1	81.3	0.84	5.02	2.3	2	2.7
90L-2	2.2	2845	1.89	4.54	7	83.2	0.84	7.38	2.6	2.1	2.7
100L-2	3	2851	2.00	5.75	7.6	84.6	0.89	10.05	2.5	2	2.8
112M-2	4	2910	2.63	7.56	7.8	85.8	0.89	13.13	2.5	2	2.7
132S1-2	5.5	2905	3.57	10.25	7.8	87	0.89	18.08	2.4	2	2.9
132S2-2	7.5	2910	5.06	13.96	7.9	88.1	0.88	24.61	2.7	2	2.8
160M1-2	11	2920	6.57	19.73	7.9	89.4	0.90	35.97	2.2	2.1	3
160M2-2	15	2918	8.37	26.35	7.9	90.3	0.91	49.09	2.3	2.1	3
160L-2	18.5	2922	9.64	31.93	8	90.9	0.92	60.46	2.4	2.1	2.9
180M-2	22	2930	13.60	39.08	7.5	91.3	0.89	71.70	2.3	2	2.8
200L1-2	30	2925	19.39	53.49	6.7	92	0.88	97.94	2.4	2	2.7
200L2-2	37	2930	21.36	64.15	6.3	92.5	0.90	120.59	2.3	2	2.7
225M-2	45	2930	28.81	79.45	6.9	92.9	0.88	146.66	2.3	2	2.8
250M-2	55	2940	35.09	96.80	8	93.2	0.88	178.64	2.3	1.9	2.7
280S-2	75	2940	37.86	125.45	8	93.8	0.92	243.60	2.2	1.9	2.7
280M-2	90	2940	45.28	150.06	7.7	94.1	0.92	292.33	2.2	1.9	2.6
315S-2	110	2940	62.30	187.08	7.7	94.3	0.90	357.29	2	1.8	2.3
315M-2	132	2940	70.29	221.33	7.6	94.6	0.91	428.74	2	1.8	2.3
315L1-2	160	2945	90.14	270.68	7.8	94.8	0.90	518.81	2	1.8	2.3
315L2-2	200	2945	118.82	341.44	7.9	95	0.89	648.51	2	1.8	2.3
355M-2	250	2945	140.54	422.05	7.8	95	0.90	810.64	2	1.8	2.3
355L-2	315	2945	187.14	537.76	7.8	95	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
802-4	0.75	1420	0.90	1.79	5.4	79.6	0.76	5.04	2.3	2.1	2.9
90S-4	1.1	1425	1.21	2.50	5.9	81.4	0.78	7.37	2.3	2.1	2.7
90L-4	1.5	1420	1.57	3.31	6.4	82.8	0.79	10.09	2.4	2	2.7
100L1-4	2.2	1430	2.03	4.59	6.6	84.3	0.82	14.69	2.4	2.1	2.9
100L2-4	3	1430	2.94	6.33	6.9	85.5	0.80	20.03	2.4	2	2.8
112M-4	4	1435	4.01	8.44	7.9	86.6	0.79	26.62	2.5	2	3
132S-4	5.5	1430	4.87	11.04	7.1	87.7	0.82	36.73	2.3	2	2.8
132M-4	7.5	1430	6.31	14.70	7.8	88.7	0.83	50.08	2.3	2	2.7
160M-4	11	1440	6.17	19.43	7.9	89.8	0.91	72.95	2.5	2.1	2.8
160L-4	15	1445	7.82	25.92	7.8	90.8	0.92	99.13	2.4	2.1	2.9
180M-4	18.5	1445	12.68	33.66	7.8	91.2	0.87	122.26	2.4	2.1	3
180L-4	22	1460	13.55	38.95	7.5	91.6	0.89	143.89	2.3	2	3
200L-4	30	1460	19.33	53.31	7.9	92.3	0.88	196.22	2.4	2	2.7
225S-4	37	1470	33.42	72.02	6.7	92.7	0.80	240.36	2.4	2	2.7
225M-4	45	1480	40.47	87.21	7	93.1	0.80	290.35	2.3	2	2.8
250M-4	55	1480	34.98	96.49	7.4	93.5	0.88	354.87	2.4	1.9	2.7
280S-4	75	1480	40.19	126.56	7.5	94	0.91	483.92	2.2	1.9	2.6
280M-4	90	1480	45.23	149.90	7.7	94.2	0.92	580.70	2.2	1.9	2.6
315S-4	110	1480	62.17	186.69	7.8	94.5	0.90	709.75	2	1.8	2.3
315M-4	132	1480	70.22	221.09	7.8	94.7	0.91	851.69	2	1.8	2.3
315L1-4	160	1480	84.93	267.43	7.9	94.9	0.91	1032.36	2	1.8	2.3
315L2-4	200	1480	112.32	337.29	7.7	95.1	0.90	1290.45	2	1.8	2.3
355M-4	250	1480	148.36	426.35	7.9	95.1	0.89	1613.06	2	1.8	2.3
355L-4	315	1480	176.90	531.23	7.8	95.1	0.90	2032.45	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
90S-6	0.75	935	0.95	1.88	6.2	75.9	0.76	7.66	2.2	2	2.7
90L-6	1.1	935	1.18	2.54	6	78.1	0.80	11.23	2.3	2.1	2.6
100L-6	1.5	940	1.46	3.31	5.8	79.8	0.82	15.24	2.3	2.1	2.7
112M-6	2.2	940	2.25	4.85	6.4	81.8	0.80	22.35	2.3	2.1	2.9
132S-6	3	940	2.69	6.26	6.3	83.3	0.83	30.48	2.4	2.2	2.8
132M1-6	4	945	3.39	8.12	6.2	84.6	0.84	40.42	2.5	2	2.8
132M2-6	5.5	945	4.97	11.26	6.8	86	0.82	55.58	2.3	1.9	2.8
160M-6	7.5	955	6.16	14.78	7	87.2	0.84	74.99	2.4	1.9	2.7
160L-6	11	960	8.50	21.06	7.3	88.7	0.85	109.42	2.5	2	2.8
180L-6	15	960	12.48	29.08	7.8	89.7	0.83	149.21	2.3	2.1	2.9
200L1-6	18.5	965	14.03	34.75	7.8	90.4	0.85	183.07	2.4	2.1	3.2
200L2-6	22	965	15.86	40.62	7.9	90.9	0.86	217.70	2.3	1.9	3.1
225M-6	30	975	22.43	55.56	7.9	91.7	0.85	293.82	2.2	1.9	2.7
250M-6	37	975	29.95	69.79	7.5	92.2	0.83	362.38	2.3	2.1	2.7
280S-6	45	980	31.81	81.48	7.2	92.7	0.86	438.49	2.3	2	2.8
280M1-6	55	980	38.71	99.15	7.7	93.1	0.86	535.93	2.2	1.9	2.7
315S-6	75	980	45.17	129.81	7.9	93.7	0.89	730.81	2.1	1.9	2.5
315M-6	90	980	51.13	153.56	8	94	0.90	876.98	2	1.8	2.3
315L1-6	110	980	62.30	187.08	7.7	94.3	0.90	1071.86	2	1.8	2.3
315L2-6	132	980	78.75	226.30	.8	94.6	0.89	1286.23	2	1.8	2.3
355M1-6	160	980	85.02	267.71	7.6	94.8	0.91	1559.07	2	1.8	2.3
355M2-6	200	980	112.43	337.64	7.8	95	0.90	1948.84	2	1.8	2.3
355L-6	250	980	148.52	426.79	7.8	95	0.89	2436.05	2	1.8	2.3

MOTORI ELETTRICI EFFICIENZA IE3 - DATI TECNICI

Model	Power (KW)	Full Load Speed (r/min)	I _n 400V (A)	I _n 400V (A)	I _s /I _n (Times)	Eff. 100%FL (%)	Power Factor (CosΦ)	Full Load Torque (N.M)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)
2 Pole - 3000 rpm Synchronous Speed 50Hz											
801-2	0.75	2848	0.92	1.79	6	80.7	0.75	2.51	2.7	2.1	2.8
802-2	1.1	2846	1.15	2.43	6.7	82.7	0.79	3.69	2.7	2.1	2.9
90S-2	1.5	2852	1.28	3.06	6.1	84.2	0.84	5.02	2.3	2	2.7
90L-2	2.2	2845	1.83	4.40	7	85.9	0.84	7.38	2.6	2.1	2.7
100L-2	3	2851	1.94	5.59	7.6	87.1	0.89	10.05	2.5	2	2.8
112M-2	4	2910	2.56	7.36	7.8	88.1	0.89	13.13	2.5	2	2.7
132S1-2	5.5	2905	3.48	10.00	7.8	89.2	0.89	18.08	2.4	2	2.9
132S2-2	7.5	2910	4.95	13.65	7.9	90.1	0.88	24.61	2.7	2	2.8
160M1-2	11	2920	6.44	19.34	7.9	91.2	0.90	35.97	2.2	2.1	3
160M2-2	15	2918	8.22	25.89	7.9	91.9	0.91	49.09	2.3	2.1	3
160L-2	18.5	2922	9.48	31.41	8	92.4	0.92	60.46	2.4	2.1	2.9
180M-2	22	2930	13.39	38.49	7.5	92.7	0.89	71.70	2.3	2	2.8
200L1-2	30	2925	19.12	52.74	6.7	93.3	0.88	97.94	2.4	2	2.7
200L2-2	37	2930	21.09	63.33	6.3	93.7	0.90	120.59	2.3	2	2.7
225M-2	45	2930	28.47	78.52	6.9	94	0.88	146.66	2.3	2	2.8
250M-2	55	2940	34.68	95.67	8	94.3	0.88	178.64	2.3	1.9	2.7
280S-2	75	2940	37.50	124.26	8	94.7	0.92	243.60	2.2	1.9	2.7
280M-2	90	2940	44.85	148.64	7.7	95	0.92	292.33	2.2	1.9	2.6
315S-2	110	2940	61.71	185.31	7.7	95.2	0.90	357.29	2	1.8	2.3
315M-2	132	2940	69.70	219.47	7.6	95.4	0.91	428.74	2	1.8	2.3
315L1-2	160	2945	89.20	267.86	7.8	95.8	0.90	518.81	2	1.8	2.3
315L2-2	200	2945	117.82	338.58	7.9	95.8	0.89	648.51	2	1.8	2.3
355M-2	250	2945	139.37	418.53	7.8	95.8	0.90	810.64	2	1.8	2.3
355L-2	315	2945	185.57	533.27	7.8	95.8	0.89	1021.40	2	1.8	2.3
4 Pole - 1500 rpm Synchronous Speed 50Hz											
802-4	0.75	1420	0.87	1.73	5.4	82.5	0.76	5.04	2.3	2.1	2.9
90S-4	1.1	1425	1.17	2.42	5.9	84.1	0.78	7.37	2.3	2.1	2.7
90L-4	1.5	1420	1.53	3.21	6.4	85.3	0.79	10.09	2.4	2	2.7
100L1-4	2.2	1430	1.97	4.47	6.6	86.7	0.82	14.69	2.4	2.1	2.9
100L2-4	3	1430	2.86	6.17	6.9	87.7	0.80	20.03	2.4	2	2.8
112M-4	4	1435	3.92	8.25	7.9	88.6	0.79	26.62	2.5	2	3
132S-4	5.5	1430	4.77	10.81	7.1	89.6	0.82	36.73	2.3	2	2.8
132M-4	7.5	1430	6.19	14.43	7.8	90.4	0.83	50.08	2.3	2	2.7
160M-4	11	1440	6.06	19.09	7.9	91.4	0.91	72.95	2.5	2.1	2.8
160L-4	15	1445	7.71	25.55	7.8	92.1	0.92	99.13	2.4	2.1	2.9
180M-4	18.5	1445	12.49	33.15	7.8	92.6	0.87	122.26	2.4	2.1	3
180L-4	22	1460	13.35	38.37	7.5	93	0.89	143.89	2.3	2	3
200L-4	30	1460	19.06	52.57	7.9	93.6	0.88	196.22	2.4	2	2.7
225S-4	37	1470	32.99	71.09	6.7	93.9	0.80	240.36	2.4	2	2.7
225M-4	45	1480	39.99	86.19	7	94.2	0.80	290.35	2.3	2	2.8
250M-4	55	1480	34.57	95.36	7.4	94.6	0.88	354.87	2.4	1.9	2.7
280S-4	75	1480	39.77	125.22	7.5	95	0.91	483.92	2.2	1.9	2.6
280M-4	90	1480	44.76	148.32	7.7	95.2	0.92	580.70	2.2	1.9	2.6
315S-4	110	1480	61.58	184.92	7.8	95.4	0.90	709.75	2	1.8	2.3
315M-4	132	1480	69.56	219.01	7.8	95.6	0.91	851.69	2	1.8	2.3
315L1-4	160	1480	84.13	264.91	7.9	95.8	0.91	1032.36	2	1.8	2.3
315L2-4	200	1480	111.26	334.12	7.7	96	0.90	1290.45	2	1.8	2.3
355M-4	250	1480	146.97	422.35	7.9	96	0.89	1613.06	2	1.8	2.3
355L-4	315	1480	175.24	526.25	7.8	96	0.90	2032.45	2	1.8	2.3
6 Pole - 1000 rpm Synchronous Speed 50Hz											
90S-6	0.75	935	0.91	1.81	6.2	78.9	0.76	7.66	2.2	2	2.7
90L-6	1.1	935	1.14	2.45	6	81	0.80	11.23	2.3	2.1	2.6
100L-6	1.5	940	1.41	3.20	5.8	82.5	0.82	15.24	2.3	2.1	2.7
112M-6	2.2	940	2.18	4.71	6.4	84.3	0.80	22.35	2.3	2.1	2.9
132S-6	3	940	2.62	6.09	6.3	85.6	0.83	30.48	2.4	2.2	2.8
132M1-6	4	945	3.30	7.92	6.2	86.8	0.84	40.42	2.5	2	2.8
132M2-6	5.5	945	4.85	11.00	6.8	88	0.82	55.58	2.3	1.9	2.8
160M-6	7.5	955	6.03	14.46	7	89.1	0.84	74.99	2.4	1.9	2.7
160L-6	11	960	8.35	20.69	7.3	90.3	0.85	109.42	2.5	2	2.8
180L-6	15	960	12.27	28.60	7.8	91.2	0.83	149.21	2.3	2.1	2.9
200L1-6	18.5	965	13.83	34.26	7.8	91.7	0.85	183.07	2.4	2.1	3.2
200L2-6	22	965	15.64	40.05	7.9	92.2	0.86	217.70	2.3	1.9	3.1
225M-6	30	975	22.14	54.84	7.9	92.9	0.85	293.82	2.2	1.9	2.7
250M-6	37	975	29.59	68.97	7.5	93.3	0.83	362.38	2.3	2.1	2.7
280S-6	45	980	31.47	80.61	7.2	93.7	0.86	438.49	2.3	2	2.8
280M1-6	55	980	38.30	98.10	7.7	94.1	0.86	535.93	2.2	1.9	2.7
315S-6	75	980	44.74	128.58	7.9	94.6	0.89	730.81	2.1	1.9	2.5
315M-6	90	980	50.65	152.10	8	94.9	0.90	876.98	2	1.8	2.3
315L1-6	110	980	61.77	185.51	7.7	95.1	0.90	1071.86	2	1.8	2.3
315L2-6	132	980	78.09	224.40	8	95.4	0.89	1286.23	2	1.8	2.3
355M1-6	160	980	84.31	265.47	7.6	95.6	0.91	1559.07	2	1.8	2.3
355M2-6	200	980	111.50	334.82	7.8	95.8	0.90	1948.84	2	1.8	2.3
355L-6	250	980	147.28	423.23	7.8	95.8	0.89	2436.05	2	1.8	2.3

Le caratteristiche tecniche, le dimensioni ed ogni altro dato di questo catalogo non sono impegnative. **Simo Top Group SpA** si riserva il diritto di cambiarle in qualsiasi momento e senza preavviso

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