IE3 - Premium Efficiency - 50 Hz [1) 2)]

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current Il/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power Factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
II Poles																			
0.18	0.25	63	0.060	5.5	2.6	3.0	0.0002	20	44	7.0	52.0	2730	64.0	66.0	66.0	0.54	0.68	0.78	0.505
0.25	0.33	63	0.090	4.8	2.3	2.8	0.0002	15	33	7.2	52.0	2710	66.0	69.0	69.7	0.56	0.70	0.81	0.639
0.37	0.5	71	0.130	6.3	3.0	3.5	0.0004	12	26	9.5	56.0	2840	73.0	74.5	74.5	0.63	0.70	0.79	0.907
0.55	0.75	71	0.190	5.9	2.7	2.7	0.0005	15	33	11.2	56.0	2830	75.0	76.0	77.8	0.68	0.80	0.86	1.19
0.75	1	80	0.250	7.5	3.3	3.4	0.0008	25	55	12.1	59.0	2870	80.0	82.0	81.0	0.61	0.74	0.82	1.63
1.1	1.5	80	0.380	7.4	3.6	3.6	0.0009	23	51	13.5	59.0	2830	81.0	83.5	83.5	0.63	0.76	0.82	2.32
1.5	2	90S/L	0.500	8.0	2.6	3.5	0.0020	15	33	19.5	62.0	2900	83.0	84.2	84.2	0.64	0.75	0.82	3.14
2.2	3	90S/L	0.750	7.5	3.4	3.5	0.0026	12	26	22.0	62.0	2870	86.0	86.5	86.3	0.65	0.77	0.83	4.43
3	4	100L	1.01	7.9	2.9	3.6	0.0064	15	33	32.7	67.0	2895	85.0	86.5	87.2	0.65	0.78	0.85	5.84
4	5.5	112M	1.34	7.7	2.5	3.5	0.0080	14	31	42.6	62.0	2900	87.0	88.0	88.3	0.69	0.80	0.86	7.60
5.5	7.5	132S	1.82	8.5	2.4	3.3	0.0216	15	33	59.3	63.0	2940	87.0	88.0	89.2	0.72	0.82	0.87	10.2
5.5	7.5	S132S	1.82	8.5	2.4	3.3	0.0216	15	33	59.3	63.0	2940	87.0	88.0	89.2	0.72	0.82	0.87	10.2
7.5	10	132S	2.49	8.5	3.0	3.4	0.0252	11	24	66.0	63.0	2935	89.1	90.5	90.8	0.69	0.80	0.86	13.9
9.2	12.5	132M	3.06	8.5	2.9	3.3	0.0306	16	35	70.2	63.0	2930	90.4	91.1	91.1	0.75	0.84	0.88	16.6
11	15	160M/L	3.63	8.0	2.5	3.2	0.0506	12	26	115	70.0	2955	90.0	91.2	91.2	0.72	0.81	0.86	20.2
15	20	160M/L	4.96	8.3	2.4	2.9	0.0565	11	24	118	70.0	2945	91.0	92.0	92.2	0.71	0.81	0.84	28.0
18.5	25	160M/L	6.12	9.0	2.3	2.7	0.0650	11	24	126	70.0	2945	91.5	92.6	92.6	0.67	0.79	0.85	33.9
22	30	180M/L	7.26	8.0	2.4	3.0	0.1192	9	20	161	70.0	2950	91.0	92.5	92.7	0.68	0.78	0.84	40.8
30	40	200M/L	9.85	8.0	2.8	2.9	0.2063	15	33	219	74.0	2965	92.0	93.0	93.3	0.75	0.84	0.87	53.3
37	50	200M/L	12.2	8.0	2.6	2.8	0.2114	20	44	231	74.0	2960	92.5	93.5	93.7	0.72	0.81	0.85	67.1
High-Output Design																			
0.75	1	90S/L	0.250	8.2	3.3	3.4	0.0015	24	53	15.0	62.0	2900	79.0	82.5	83.0	0.63	0.75	0.82	1.59
1.1	1.5	90S/L	0.370	7.8	3.3	3.3	0.0018	19	42	17.1	62.0	2880	82.0	84.2	84.5	0.63	0.75	0.82	2.29
4	5.5	132S	1.33	7.9	2.3	3.1	0.0180	15	33	56.2	63.0	2935	86.0	87.5	88.1	0.76	0.85	0.88	7.45
4	5.5	S132S	1.33	7.9	2.3	3.1	0.0180	15	33	56.2	63.0	2935	86.0	87.5	88.1	0.76	0.85	0.88	7.45
5.5	7.5	132M	1.82	8.5	2.4	3.3	0.0216	15	33	59.3	63.0	2940	87.0	88.0	89.2	0.72	0.82	0.87	10.2
7.5	10	132M	2.49	8.5	3.0	3.4	0.0252	11	24	66.0	63.0	2935	89.1	90.5	90.8	0.69	0.80	0.86	13.9
11	15	132M	3.66	8.2	2.7	3.0	0.0306	11	24	74.1	63.0	2925	90.6	91.1	91.2	0.75	0.85	0.89	19.6
IV Poles																			
0.12	0.16	63	0.080	5.5	2.8	3.5	0.0004	20	44	7.3	44.0	1415	53.0	60.0	64.8	0.47	0.58	0.68	0.393
0.18	0.25	63	0.130	4.3	2.2	2.2	0.0006	30	66	7.6	44.0	1380	65.0	67.0	69.9	0.53	0.63	0.72	0.516
0.25	0.33	71	0.180	4.8	2.3	2.3	0.0007	30	66	10.7	43.0	1390	69.0	72.0	73.5	0.52	0.65	0.72	0.682
0.37	0.5	71	0.260	4.8	2.9	3.0	0.0008	30	66	10.9	43.0	1395	76.3	76.8	77.3	0.45	0.60	0.69	1.00
0.55	0.75	80	0.380	6.6	2.8	3.0	0.0026	20	44	16.2	44.0	1420	77.0	79.0	80.8	0.61	0.74	0.80	1.23
0.75	1	80	0.510	7.0	3.2	3.4	0.0032	18	40	13.8	44.0	1430	80.0	82.0	82.5	0.59	0.71	0.80	1.64
1.1	1.5	90S/L	0.740	7.6	2.5	3.3	0.0055	15	33	19.4	49.0	1455	83.0	84.5	84.8	0.57	0.70	0.78	2.40
1.5	2	90S/L	1.01	7.4	2.6	3.0	0.0066	13	29	20.9	49.0	1445	84.0	85.0	85.5	0.58	0.72	0.79	3.21
2.2	3	100L	1.49	7.6	2.5	3.0	0.0090	16	35	32.4	53.0	1435	85.0	86.5	86.7	0.55	0.68	0.78	4.70
3	4	L100L	2.03	7.8	3.5	3.7	0.0120	15	33	37.0	53.0	1440	87.0	88.0	88.0	0.58	0.71	0.78	6.31
4	5.5	112M	2.69	7.0	2.3	3.1	0.0182	15	33	39.9	56.0	1450	88.7	89.1	89.1	0.60	0.72	0.79	8.20
5.5	7.5	132S	3.66	8.5	2.4	3.4	0.0528	15	33	56.0	56.0	1465	90.0	90.7	90.7	0.67	0.79	0.85	10.3
5.5	7.5	S132S	3.66	8.5	2.4	3.4	0.0528	15	33	56.0	56.0	1465	90.0	90.7	90.7	0.67	0.79	0.85	10.3
7.5	10	132M	4.99	8.5	2.5	3.4	0.0642	13	29	76.8	56.0	1465	87.5	90.0	90.6	0.67	0.78	0.84	14.2
11	15	160M/L	7.29	7.5	2.8	3.0	0.1071	12	26	111	67.0	1470	89.5	91.0	91.5	0.62	0.73	0.80	21.7
15	20	160M/L	9.97	6.3	2.4	2.5	0.1263	11	24	120	67.0	1465	89.7	91.2	92.1	0.65	0.76	0.82	28.7
18.5	25	180M/L	12.2	8.3	3.0	3.2	0.2088	12	26	168	64.0	1474	91.0	92.2	92.6	0.63	0.75	0.82	35.2
22	30	180M/L	14.6	8.5	3.2	3.6	0.2393	11	24	181	64.0	1470	91.5	92.5	93.0	0.64	0.76	0.82	41.6
30	40	200M/L	19.8	7.0	3.2	3.4	0.3743	8	18	233	69.0	1475	92.5	93.6	93.6	0.63	0.75	0.81	57.1
High-Output Design																			
0.75	1	90S/L	0.500	7.8	2.7	3.4	0.0049	21	46	17.5	49.0	1460	82.5	84.0	84.5	0.54	0.68	0.77	1.66
1.5	2	100L	1.01	7.8	2.5	3.4	0.0082	10	22	27.9	53.0	1445	84.0	85.3	85.3	0.54	0.67	0.76	3.34
2.2	3	112M	1.47	7.8	2.2	3.1	0.0143	15	33	37.9	56.0	1460	84.0	86.5	87.0	0.52	0.66	0.74	4.93
3	4	112M	2.01	7.1	2.3	3.1	0.0169	25	55	38.7	56.0	1455	88.5	89.1	89.1	0.62	0.74	0.81	6.00
5.5	7.5	132M	3.66	8.5	2.4	3.4	0.0528	15	33	56.0	56.0	1465	90.0	90.7	90.7	0.67	0.79	0.85	10.3
7.5	10	L132M	4.99	8.5	2.5	3.4	0.0638	13	29	80.0	56.0	1465	87.5	90.0	90.6	0.67	0.78	0.84	14.2

Notes:

(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

(2) With effect from 1st January 2017, IE2 motors placed onto the European Market and rated at 0.75 kW or above, must be used with a variable speed drive unless their design falls outside of the scope of the European Regulation or their final installation will be outside of the EU / EEA.

(3) Motor with class F (105K) temperature rise.

IE3 - Premium Efficiency - 50 Hz [1) 2)]

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current In (A)	Rated speed (rpm)	% of full load						Full load current In (A)
			Efficiency			Power Factor					Efficiency			Power Factor			
kW	HP		50	75	100	50	75	100			50	75	100	50	75	100	
II Poles																	
0.18	0.25	2705	65.0	66.0	66.0	0.58	0.72	0.82	0.505	2745	62.0	66.0	66.0	0.51	0.65	0.76	0.499
0.25	0.33	2680	67.0	69.0	69.7	0.60	0.75	0.84	0.649	2730	64.0	68.0	69.7	0.53	0.68	0.78	0.640
0.37	0.5	2825	73.6	74.3	73.8	0.68	0.79	0.81	0.940	2850	72.4	74.5	75.0	0.60	0.67	0.77	0.891
0.55	0.75	2805	75.6	75.7	77.8	0.73	0.83	0.88	1.22	2845	74.4	76.0	77.8	0.64	0.77	0.84	1.17
0.75	1	2855	80.0	80.5	80.7	0.66	0.78	0.85	1.66	2880	79.1	81.0	81.1	0.57	0.71	0.79	1.63
1.1	1.5	2810	82.0	83.7	83.1	0.69	0.80	0.85	2.37	2840	80.0	83.0	83.4	0.58	0.72	0.79	2.32
1.5	2	2885	83.7	84.2	84.2	0.69	0.79	0.84	3.22	2910	82.2	84.2	84.2	0.59	0.71	0.79	3.14
2.2	3	2855	86.5	86.4	85.9	0.70	0.81	0.86	4.52	2880	85.3	86.4	86.5	0.61	0.74	0.81	4.37
3	4	2885	84.5	86.0	87.2	0.71	0.82	0.88	5.94	2905	84.5	86.5	87.2	0.60	0.74	0.82	5.84
4	5.5	2890	87.0	88.0	88.3	0.73	0.83	0.88	7.82	2910	87.0	88.0	88.3	0.65	0.77	0.84	7.50
5.5	7.5	2935	87.0	88.0	89.2	0.76	0.85	0.89	10.5	2945	87.0	88.0	89.2	0.68	0.79	0.85	10.1
5.5	7.5	2935	87.0	88.0	89.2	0.76	0.85	0.89	10.5	2945	87.0	88.0	89.2	0.68	0.79	0.85	10.1
7.5	10	2925	89.6	90.6	90.6	0.74	0.84	0.88	14.3	2940	88.6	90.3	90.8	0.65	0.77	0.83	13.8
9.2	12.5	2920	90.7	91.0	90.8	0.79	0.87	0.90	17.1	2935	90.1	91.0	91.3	0.71	0.82	0.87	16.1
11	15	2950	90.0	91.2	91.2	0.79	0.85	0.88	20.8	2960	90.0	91.2	91.2	0.68	0.77	0.84	20.0
15	20	2940	91.0	92.0	92.2	0.74	0.82	0.85	29.1	2950	91.0	92.0	92.2	0.68	0.80	0.83	27.3
18.5	25	2940	91.5	92.6	92.6	0.70	0.81	0.86	35.3	2950	91.5	92.6	92.6	0.63	0.77	0.84	33.1
22	30	2940	91.5	92.5	92.7	0.73	0.82	0.86	41.9	2950	90.0	92.0	92.7	0.63	0.75	0.81	40.8
30	40	2960	92.0	93.0	93.3	0.80	0.86	0.89	54.9	2970	92.0	93.0	93.3	0.72	0.82	0.86	52.0
37	50	2955	92.5	93.5	93.7	0.77	0.85	0.88	68.2	2965	92.5	93.5	93.7	0.66	0.77	0.83	66.2
High-Output Design																	
0.75	1	2885	79.5	82.5	82.5	0.68	0.78	0.84	1.64	2910	78.4	82.3	83.1	0.60	0.72	0.79	1.59
1.1	1.5	2865	82.6	84.2	84.0	0.68	0.79	0.84	2.37	2890	81.4	84.0	84.7	0.59	0.72	0.80	2.26
4	5.5	2930	86.0	87.5	88.1	0.79	0.87	0.89	7.75	2940	86.0	87.5	88.1	0.75	0.83	0.87	7.26
4	5.5	2930	86.0	87.5	88.1	0.79	0.87	0.89	7.75	2940	86.0	87.5	88.1	0.75	0.83	0.87	7.26
5.5	7.5	2935	87.0	88.0	89.2	0.76	0.85	0.89	10.5	2945	87.0	88.0	89.2	0.68	0.79	0.85	10.1
7.5	10	2925	89.6	90.6	90.6	0.74	0.84	0.88	14.3	2940	88.6	90.3	90.8	0.65	0.77	0.83	13.8
11	15	2915	90.9	91.0	91.2	0.80	0.87	0.90	20.4	2930	90.2	91.1	91.4	0.72	0.82	0.87	19.2
IV Poles																	
0.12	0.16	1405	55.0	61.0	64.8	0.50	0.62	0.71	0.396	1420	52.0	59.0	64.8	0.45	0.56	0.65	0.396
0.18	0.25	1360	65.0	67.0	69.9	0.57	0.67	0.75	0.522	1390	65.0	67.0	69.9	0.50	0.61	0.70	0.512
0.25	0.33	1375	67.0	69.1	73.5	0.56	0.69	0.75	0.689	1400	65.1	68.6	73.4	0.50	0.62	0.69	0.687
0.37	0.5	1380	76.3	76.8	77.3	0.49	0.64	0.72	1.01	1405	76.3	76.8	77.3	0.42	0.57	0.67	0.994
0.55	0.75	1410	78.0	79.1	80.8	0.65	0.77	0.83	1.25	1430	76.0	78.9	80.8	0.57	0.71	0.77	1.23
0.75	1	1425	80.8	82.0	82.5	0.62	0.75	0.81	1.71	1435	79.1	81.8	82.5	0.53	0.67	0.78	1.62
1.1	1.5	1450	84.0	84.7	84.3	0.62	0.74	0.81	2.45	1460	82.0	84.1	84.8	0.55	0.67	0.75	2.41
1.5	2	1440	85.0	85.3	85.3	0.63	0.76	0.81	3.30	1450	83.1	85.0	85.7	0.54	0.68	0.77	3.16
2.2	3	1425	86.0	86.5	86.7	0.60	0.72	0.80	4.82	1440	84.0	85.8	86.7	0.51	0.65	0.75	4.71
3	4	1430	87.7	88.0	87.7	0.63	0.75	0.81	6.42	1445	86.3	87.7	88.1	0.54	0.68	0.76	6.23
4	5.5	1445	89.3	89.0	88.6	0.65	0.76	0.81	8.47	1455	88.2	88.9	89.3	0.57	0.70	0.77	8.09
5.5	7.5	1460	90.4	90.7	90.3	0.71	0.82	0.87	10.6	1470	89.6	90.7	90.8	0.64	0.76	0.83	10.2
5.5	7.5	1460	90.4	90.7	90.3	0.71	0.82	0.87	10.6	1470	89.6	90.7	90.8	0.64	0.76	0.83	10.2
7.5	10	1460	88.5	90.0	90.6	0.71	0.81	0.86	14.6	1470	86.5	90.0	90.6	0.63	0.75	0.83	13.9
11	15	1465	89.5	91.0	91.5	0.64	0.75	0.82	22.3	1475	89.5	91.0	91.5	0.60	0.70	0.78	21.4
15	20	1460	89.7	91.2	92.1	0.70	0.79	0.84	29.5	1470	89.7	91.2	92.1	0.60	0.73	0.80	28.3
18.5	25	1470	91.0	92.2	92.6	0.67	0.79	0.84	36.1	1476	91.0	92.2	92.6	0.60	0.72	0.80	34.7
22	30	1465	92.0	92.5	93.0	0.70	0.80	0.84	42.8	1475	91.0	92.5	93.0	0.61	0.73	0.79	41.7
30	40	1475	92.5	93.6	93.6	0.68	0.79	0.84	58.0	1480	92.0	93.6	93.6	0.58	0.71	0.79	56.4
High-Output Design																	
0.75	1	1455	83.2	84.1	84.0	0.59	0.72	0.80	1.70	1465	81.8	83.8	84.6	0.50	0.65	0.74	1.67
1.5	2	1440	84.0	85.3	85.3	0.58	0.71	0.79	3.38	1450	83.0	85.3	85.3	0.51	0.64	0.73	3.35
2.2	3	1455	84.0	86.0	86.7	0.56	0.69	0.77	5.01	1465	84.0	86.5	87.0	0.49	0.63	0.72	4.89
3	4	1450	88.6	89.0	89.0	0.66	0.77	0.83	6.17	1460	88.1	89.1	89.1	0.59	0.71	0.79	5.93
5.5	7.5	1460	90.4	90.7	90.3	0.71	0.82	0.87	10.6	1470	89.6	90.7	90.8	0.64	0.76	0.83	10.2
7.5	10	1460	88.5	90.0	90.6	0.71	0.81	0.86	14.6	1470	86.5	90.0	90.6	0.63	0.75	0.83	13.9

IE3 - Premium Efficiency - 50 Hz [1) 2)]

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current Il/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power Factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
VI Poles																			
0.12	0.16	63	0.130	3.1	2.1	2.3	0.0007	30	66	7.8	43.0	925	50.0	55.0	57.7	0.40	0.50	0.59	0.509
0.18	0.25	71	0.190	3.2	2.0	2.1	0.0009	30	66	10.5	43.0	900	56.0	62.0	63.9	0.38	0.48	0.57	0.713
0.25	0.33	80	0.250	4.3	1.7	2.4	0.0029	25	55	12.0	43.0	955	63.6	68.5	68.8	0.47	0.60	0.71	0.739
0.37	0.5	80	0.390	4.5	1.9	2.1	0.0025	25	55	13.9	43.0	925	66.0	69.5	73.5	0.51	0.65	0.75	0.969
0.55	0.75	L80	0.570	5.1	2.9	3.1	0.0034	20	44	18.0	43.0	945	70.5	75.2	77.2	0.45	0.58	0.69	1.49
0.75	1	90S/L	0.780	5.2	2.5	2.8	0.0066	31	68	21.4	45.0	940	76.5	79.0	79.0	0.49	0.62	0.71	1.93
1.1	1.5	100L	1.12	6.0	2.1	3.2	0.0110	18	40	25.3	44.0	960	77.0	80.0	81.0	0.50	0.62	0.70	2.80
1.5	2	100L	1.54	5.5	2.3	2.8	0.0143	31	68	29.4	44.0	950	81.5	82.5	82.5	0.49	0.62	0.71	3.70
2.2	3	112M	2.23	6.4	2.4	2.9	0.0257	26	57	39.5	49.0	960	83.0	84.5	84.5	0.53	0.64	0.72	5.22
3	4	132S	3.01	6.0	1.9	2.5	0.0566	28	62	62.4	53.0	970	85.0	85.8	85.8	0.52	0.65	0.73	6.91
4	5.5	132M	4.06	6.5	2.2	2.5	0.0566	30	66	66.0	53.0	960	86.0	86.8	86.8	0.53	0.66	0.74	8.99
5.5	7.5	L132M	5.52	7.3	2.1	2.5	0.0755	26	57	73.2	53.0	970	86.0	87.0	88.0	0.50	0.64	0.72	12.5
7.5	10	160M/L	7.53	6.6	2.5	2.9	0.1614	19	42	117	54.0	970	86.0	88.5	89.1	0.61	0.74	0.81	15.0
11	15	160M/L	11.1	7.0	2.8	3.0	0.1689	13	29	123	54.0	970	89.0	90.0	90.3	0.60	0.73	0.80	22.0
15	20	180M/L	15.0	7.7	2.6	3.2	0.3310	10	22	174	56.0	975	90.5	91.0	91.2	0.65	0.78	0.84	28.3
18.5	25	200M/L	18.5	6.3	2.3	2.5	0.3861	17	37	206	58.0	975	90.5	91.8	92.0	0.67	0.78	0.82	35.4
22	30	200M/L	22.0	6.2	2.3	2.6	0.4388	15	33	219	58.0	975	90.4	92.0	92.2	0.65	0.75	0.82	42.0
High-Output Design																			
1.1	1.5	112M	1.10	7.5	2.2	3.7	0.0220	20	44	32.2	49.0	970	79.0	82.0	82.5	0.43	0.55	0.64	3.01
1.5	2	112M	1.52	6.0	2.1	2.8	0.0202	28	62	35.8	49.0	960	84.5	85.5	85.5	0.51	0.63	0.71	3.57
2.2	3	132S	2.20	6.5	2.2	3.3	0.0491	20	44	55.7	53.0	975	80.0	83.0	84.3	0.49	0.61	0.69	5.46
2.2	3	S132S	2.20	6.5	2.2	3.3	0.0491	20	44	55.7	53.0	975	80.0	83.0	84.3	0.49	0.61	0.69	5.46
3	4	132M	3.01	6.0	1.9	2.5	0.0566	28	62	62.4	53.0	970	85.0	85.8	85.8	0.52	0.65	0.73	6.91
5.5	7.5	160M/L	5.49	7.5	2.1	2.6	0.1264	15	33	112	54.0	975	87.0	88.0	88.0	0.62	0.74	0.81	11.1
VIII Poles																			
0.12	0.16	71	0.180	2.4	1.8	2.0	0.0009	30	66	11.5	41.0	650	44.0	50.0	52.5	0.35	0.43	0.50	0.660
0.18	0.25	80	0.260	3.3	2.0	2.2	0.0029	30	66	15.0	42.0	680	51.0	57.0	58.7	0.45	0.55	0.65	0.681
0.25	0.33	80	0.350	3.5	2.0	2.2	0.0034	30	66	15.5	42.0	695	53.0	60.0	64.1	0.42	0.52	0.63	0.894
0.37	0.5	90S/L	0.520	3.7	2.1	2.4	0.0055	30	66	19.0	44.0	690	61.0	66.0	69.3	0.41	0.53	0.62	1.24
0.55	0.75	90S/L	0.780	3.6	1.8	2.1	0.0066	29	64	23.0	44.0	685	63.0	72.5	73.0	0.44	0.57	0.67	1.62
0.75	1	100L	1.03	4.6	1.9	2.3	0.0127	30	66	28.8	50.0	710	72.5	75.5	75.5	0.41	0.53	0.62	2.31
1.1	1.5	100L	1.51	4.6	1.9	2.0	0.0143	30	66	30.8	50.0	710	73.0	76.0	77.7	0.41	0.53	0.62	3.30
1.5	2	112M	2.07	5.0	2.5	2.8	0.0238	28	62	37.4	46.0	705	79.0	80.5	80.5	0.45	0.59	0.68	3.96
2.2	3	132S	3.02	6.2	2.3	2.5	0.0690	27	59	58.9	48.0	710	82.0	82.6	82.6	0.51	0.65	0.72	5.34
2.2	3	S132S	3.02	6.2	2.3	2.5	0.0690	27	59	58.9	48.0	710	82.0	82.6	82.6	0.51	0.65	0.72	5.34
3	4	132M	4.12	6.4	2.4	2.6	0.0838	21	46	66.2	48.0	710	82.5	83.5	83.5	0.51	0.64	0.72	7.20
4	5.5	160M/L	5.34	5.5	2.3	3.1	0.1221	15	33	97.3	53.0	730	81.0	84.0	84.8	0.43	0.56	0.65	10.5
5.5	7.5	160M/L	7.34	5.6	2.5	2.8	0.1652	22	48	112	53.0	730	85.0	87.7	87.7	0.42	0.55	0.65	13.9
7.5	10	160M/L	10.1	5.2	2.0	2.4	0.1652	19	42	121	53.0	725	87.5	88.0	88.0	0.54	0.66	0.73	16.9
11	15	180M/L	14.7	8.0	2.6	2.8	0.3034	12	26	158	51.0	730	90.0	90.3	90.3	0.62	0.73	0.80	22.0
15	20	200M/L	19.9	5.0	2.0	2.2	0.5023	28	62	228	56.0	735	89.5	90.5	90.9	0.53	0.65	0.71	33.5

Notes:

(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

(2) With effect from 1st January 2017, IE2 motors placed onto the European Market and rated at 0.75 kW or above, must be used with a variable speed drive unless their design falls outside of the scope of the European Regulation or their final installation will be outside of the EU / EEA.

(3) Motor with class F (105K) temperature rise.

IE3 - Premium Efficiency - 50 Hz [1) 2)]

Output		380 V								415 V							
		Rated speed (rpm)	% of full load						Full load current In (A)	Rated speed (rpm)	% of full load						Full load current In (A)
			Efficiency			Power Factor					Efficiency			Power Factor			
kW	HP		50	75	100	50	75	100			50	75	100	50	75	100	
VI Poles																	
0.12	0.16	910	48.7	54.7	57.7	0.40	0.53	0.63	0.502	930	50.0	55.0	57.7	0.39	0.47	0.56	0.517
0.18	0.25	885	57.7	62.8	63.9	0.43	0.55	0.64	0.669	910	54.5	61.2	63.9	0.38	0.48	0.57	0.688
0.25	0.33	950	65.9	68.0	68.6	0.51	0.64	0.74	0.748	960	61.7	68.2	68.8	0.45	0.57	0.68	0.743
0.37	0.5	915	67.6	69.9	73.5	0.55	0.69	0.79	0.968	930	64.3	68.8	73.5	0.48	0.62	0.72	0.973
0.55	0.75	940	73.4	76.7	77.2	0.49	0.63	0.73	1.48	950	67.9	75.0	77.2	0.42	0.55	0.65	1.52
0.75	1	930	77.5	79.2	78.9	0.53	0.66	0.74	1.95	945	75.3	78.6	79.1	0.46	0.59	0.69	1.91
1.1	1.5	955	77.0	80.0	81.0	0.53	0.66	0.74	2.79	965	76.0	80.0	81.0	0.46	0.59	0.68	2.78
1.5	2	945	82.3	82.6	82.5	0.53	0.66	0.74	3.73	955	80.6	82.3	82.8	0.46	0.59	0.68	3.71
2.2	3	955	83.6	84.4	84.3	0.57	0.68	0.75	5.29	965	82.3	84.3	84.7	0.50	0.62	0.70	5.16
3	4	965	85.0	85.8	85.8	0.56	0.69	0.76	6.99	975	85.0	85.8	85.8	0.49	0.62	0.71	6.85
4	5.5	955	86.6	86.9	86.8	0.57	0.70	0.76	9.21	965	85.4	86.6	86.9	0.50	0.63	0.71	9.02
5.5	7.5	965	85.5	87.0	88.0	0.55	0.68	0.75	12.7	970	86.0	87.0	88.0	0.47	0.61	0.69	12.6
7.5	10	965	86.5	88.5	89.1	0.65	0.77	0.82	15.6	975	85.5	88.5	89.1	0.58	0.71	0.79	14.8
11	15	970	89.0	90.0	90.3	0.65	0.77	0.83	22.3	975	89.0	90.0	90.3	0.57	0.70	0.78	21.7
15	20	970	90.0	91.0	91.2	0.68	0.80	0.85	29.4	975	90.5	91.0	91.2	0.69	0.80	0.85	26.9
18.5	25	970	90.5	91.8	92.0	0.72	0.81	0.84	36.4	980	90.0	91.8	92.0	0.64	0.75	0.80	35.0
22	30	970	91.0	92.0	92.2	0.70	0.78	0.84	43.2	980	89.5	91.5	92.2	0.60	0.72	0.80	41.5
High-Output Design																	
1.1	1.5	970	80.0	82.5	82.5	0.47	0.59	0.68	2.98	975	78.0	81.0	82.5	0.40	0.52	0.61	3.04
1.5	2	955	85.1	85.4	84.9	0.54	0.66	0.74	3.63	960	84.0	85.4	85.8	0.48	0.60	0.69	3.52
2.2	3	970	80.0	83.0	84.3	0.53	0.65	0.72	5.51	975	79.0	83.0	84.3	0.46	0.58	0.67	5.42
2.2	3	970	80.0	83.0	84.3	0.53	0.65	0.72	5.51	975	79.0	83.0	84.3	0.46	0.58	0.67	5.42
3	4	965	85.0	85.8	85.8	0.56	0.69	0.76	6.99	975	85.0	85.8	85.8	0.49	0.62	0.71	6.85
5.5	7.5	970	87.0	88.0	88.0	0.66	0.77	0.83	11.4	975	87.0	88.0	88.0	0.59	0.72	0.79	11.0
VIII Poles																	
0.12	0.16	640	46.6	51.7	52.9	0.38	0.46	0.54	0.638	660	41.8	48.2	51.4	0.34	0.41	0.48	0.677
0.18	0.25	670	52.8	58.0	58.7	0.48	0.59	0.69	0.675	685	49.3	56.0	58.7	0.43	0.53	0.62	0.688
0.25	0.33	685	54.0	60.0	64.1	0.44	0.57	0.67	0.884	705	56.0	62.0	64.3	0.39	0.50	0.60	0.902
0.37	0.5	680	62.9	66.9	69.3	0.44	0.56	0.66	1.23	695	59.0	64.7	69.3	0.39	0.50	0.59	1.26
0.55	0.75	675	64.8	70.0	73.0	0.48	0.61	0.70	1.64	690	61.4	72.5	73.0	0.42	0.54	0.64	1.64
0.75	1	705	73.9	76.1	75.1	0.44	0.57	0.66	2.30	715	71.1	74.8	75.5	0.38	0.50	0.59	2.34
1.1	1.5	700	74.9	76.8	77.7	0.45	0.58	0.66	3.26	710	71.1	76.0	77.7	0.38	0.50	0.59	3.34
1.5	2	700	79.9	80.6	79.8	0.49	0.63	0.71	4.02	710	77.9	80.2	80.8	0.42	0.56	0.65	3.97
2.2	3	705	82.9	82.6	81.9	0.57	0.68	0.76	5.37	715	81.2	82.3	82.9	0.48	0.62	0.70	5.27
2.2	3	705	82.9	82.6	81.9	0.57	0.68	0.76	5.37	715	81.2	82.3	82.9	0.48	0.62	0.70	5.27
3	4	705	82.7	83.0	83.5	0.56	0.68	0.75	7.28	715	81.5	83.2	83.7	0.48	0.61	0.70	7.12
4	5.5	730	81.0	84.0	84.8	0.47	0.60	0.68	10.5	730	80.0	83.5	84.8	0.41	0.53	0.62	10.6
5.5	7.5	725	86.0	87.7	87.7	0.46	0.60	0.69	13.8	730	84.0	87.7	87.7	0.40	0.52	0.62	14.1
7.5	10	725	88.0	88.0	88.0	0.58	0.70	0.76	17.0	730	86.5	87.9	87.9	0.50	0.62	0.71	16.7
11	15	725	90.0	90.3	90.0	0.66	0.76	0.81	22.9	730	90.0	90.3	90.3	0.58	0.71	0.78	21.7
15	20	735	89.5	90.0	90.6	0.56	0.67	0.73	34.5	735	89.0	90.0	90.9	0.50	0.63	0.69	33.3