

IMfinity® 3-phase induction motors - IE2 - IE3 - IE4 - Non IE Efficiency

IP55 Aluminium frame

Electrical and mechanical characteristics

IE3 - Powered by the mains

Type	Rated power P_n kW	380V 50Hz				415V 50Hz				460V 60Hz			
		Rated speed N_n min ⁻¹	Rated current I_n A	Efficiency η 4/4	Power factor $\cos \phi$ 4/4	Rated speed N_n min ⁻¹	Rated current I_n A	Efficiency η 4/4	Power factor $\cos \phi$ 4/4	Rated speed N_n min ⁻¹	Rated current I_n A	Efficiency η 4/4	Power factor $\cos \phi$ 4/4
2 poles													
LSES 80 L	0.75	2875	1.65	80.9	0.86	2900	1.55	81.6	0.81	3505	1.4	82.5	0.80
LSES 80 LG	1.1	2870	2.35	82.7	0.87	2895	2.2	84.2	0.83	3505	1.95	84.9	0.83
LSES 90 SL	1.5	2880	3.15	84.2	0.87	2900	2.9	85.7	0.83	3510	2.65	86.5	0.83
LSES 90 L	1.8	2880	3.95	85.0	0.87	2900	3.6	85.6	0.83	3510	3.3	86.9	0.83
LSES 90 LU	2.2	2875	4.4	85.9	0.88	2905	4.2	86.7	0.85	3505	3.75	87.6	0.85
LSES 100 L	3	2870	6	87.1	0.88	2900	5.65	87.8	0.84	3505	5.1	87.6	0.85
LSES 100 LG	3.7	2905	7	87.9	0.90	2925	6.4	88.5	0.88	3535	5.8	88.9	0.88
LSES 112 MG	4	2905	7.65	88.1	0.90	2925	7.1	89.0	0.88	3535	6.4	89.6	0.88
LSES 132 S	5.5	2910	10.6	89.2	0.88	2930	10	89.9	0.85	3540	8.9	90.7	0.86
LSES 132 SM	7.5	2925	14.5	90.1	0.87	2945	13.5	91.1	0.85	3545	12.1	91.6	0.85
LSES 132 M	9	2935	17.2	90.7	0.88	2950	16.3	91.4	0.84	3558	14.5	91.9	0.85
LSES 160 MP	11	2930	21	91.2	0.87	2945	19.7	91.9	0.84	3550	17.6	92.3	0.85
LSES 160 M	15	2935	27.9	91.9	0.89	2950	25.9	92.2	0.87	3550	23.3	92.5	0.87
LSES 160 L	18.5	2945	34	92.4	0.89	2954	32	92.9	0.87	3558	28.6	93.4	0.87
LSES 180 MR	22	2940	40.4	92.7	0.89	2958	38	93.1	0.87	3560	33.8	93.8	0.87
LSES 200 LR	30	2935	55	93.3	0.89	2954	50.4	93.8	0.88	3556	45.3	94.0	0.89
LSES 200 L	37	2930	66.6	93.7	0.90	2950	61.8	94.2	0.88	3552	55.6	94.5	0.89
LSES 225 MR	45	2940	81	94.0	0.90	2956	75.4	94.6	0.88	3560	67.2	94.9	0.89
LSES 250 MZ	55	2940	98.3	94.3	0.90	2954	92.3	94.8	0.88	3560	81.6	95.2	0.89
LSES 280 SC	75	2964	132	94.8	0.91	2974	123	95.4	0.89	3574	110	95.2	0.90
LSES 280 MC	90	2968	158	95.1	0.91	2972	148	95.5	0.89	3574	131	95.5	0.90
LSES 315 SN	110	2962	195	95.2	0.91	2970	179	95.6	0.89	3574	161	95.7	0.90
LSES 315 MP	132	2974	237	95.4	0.89	2984	220	95.7	0.87	3580	198	95.4	0.88
LSES 315 MP	160	2976	286	95.6	0.89	2980	267	95.9	0.87	3580	239	95.6	0.88
LSES 315 MP	200	2970	357	95.8	0.89	2980	335	96.1	0.86	3580	297	96.1	0.88
4 poles													
LSES 80 LG	0.75	1440	1.65	82.6	0.82	1452	1.6	83.29	0.78	1758	1.45	85.1	0.76
LSES 80 LG	0.9	1440	2	83.0	0.82	1452	1.8	83.60	0.78	1758	1.7	85.6	0.76
LSES 90 SL	1.1	1445	2.35	84.1	0.83	1454	2.3	85.42	0.79	1760	2.05	86.6	0.78
LSES 90 LU	1.5	1445	3.25	85.3	0.82	1456	3.2	85.75	0.77	1760	2.8	87.3	0.76
LSES 100 L	1.8	1445	3.9	85.4	0.83	1454	3.9	86.20	0.79	1760	3.3	87.0	0.78
LSES 100 LR	2.2	1445	4.7	86.7	0.82	1456	4.6	87.27	0.77	1760	4.15	88.4	0.76
LSES 100 LG	3	1452	6.2	87.7	0.84	1462	6.05	88.36	0.78	1766	5.35	90.0	0.79
LSES 112 MU	4	1450	8.3	88.6	0.83	1462	8.05	88.88	0.78	1764	7.1	90.2	0.79
LSES 132 SM	5.5	1456	10.7	89.6	0.87	1466	10.2	90.43	0.83	1768	9.05	91.7	0.83
LSES 132 MU	7.5	1450	14.5	90.4	0.87	1462	13.6	90.90	0.85	1766	12.1	92.0	0.84
LSES 160 MR	9	1458	17.4	90.9	0.86	1466	16.5	91.50	0.83	1768	14.7	92.4	0.83
LSES 160 M	11	1462	21.1	91.4	0.86	1470	19.8	91.91	0.84	1774	17.8	92.7	0.84
LSES 160 LUR	15	1464	28.7	92.1	0.86	1472	26.8	92.55	0.84	1774	24.2	93.3	0.83
LSES 180 M	18.5	1466	35.3	92.6	0.86	1474	33.1	93.16	0.84	1774	29.5	93.8	0.84
LSES 180 LUR	22	1466	42.4	93.0	0.85	1474	40.3	93.41	0.81	1770	36.4	93.8	0.81
LSES 200 LU	30	1472	56.8	93.6	0.85	1478	53.9	94.10	0.82	1778	48.1	94.5	0.83
LSES 225 SR	37	1476	71.7	93.9	0.83	1482	69.5	94.30	0.79	1782	61.2	94.5	0.80
LSES 225 MG	45	1480	86.2	94.3	0.85	1486	80.7	94.94	0.82	1786	72.3	95.0	0.82
LSES 250 ME	55	1482	105	94.6	0.84	1486	98.3	95.13	0.82	1786	87.9	95.4	0.82
LSES 280 SD	75	1484	142	95.0	0.85	1486	134	95.34	0.81	1786	120	95.6	0.82
LSES 280 MD	90	1482	170	95.3	0.84	1488	164	95.50	0.80	1788	148	95.7	0.80
LSES 315 SP	110	1486	206	95.4	0.85	1488	193	95.83	0.82	1790	176	95.8	0.82
LSES 315 MP	132	1484	243	95.6	0.86	1488	229	95.70	0.84	1790	210	96.2	0.82
LSES 315 MP	160	1484	300	95.8	0.85	1488	289	96.00	0.80	1790	254	96.2	0.82
LSES 315 MR	200	1484	371	96.0	0.85	1488	358	96.01	0.81	1790	316	96.4	0.82
6 poles													
LSES 90 SL	0.75	945	1.95	78.9	0.74	956	1.9	79.5	0.70	-	-	-	-
LSES 90 LU	1.1	950	2.75	81.3	0.75	960	2.75	82.1	0.68	-	-	-	-
LSES 100 LG	1.5	962	3.75	82.6	0.73	970	3.65	83.4	0.68	-	-	-	-
LSES 112 MU	2.2	960	5.4	84.3	0.73	970	5.4	84.5	0.67	-	-	-	-
LSES 132 SM	3	968	7	85.8	0.76	974	6.8	86.6	0.71	-	-	-	-
LSES 132 M	4	968	9.2	86.8	0.76	974	9.05	87.7	0.70	-	-	-	-
LSES 132 MU	5.5	960	12.1	88.0	0.78	968	11.7	88.5	0.74	-	-	-	-
LSES 160 MU	7.5	974	19.4	89.1	0.74	980	18.3	89.7	0.69	-	-	-	-
LSES 180 L	11	980	23.2	91.2	0.79	984	22.4	91.3	0.75	-	-	-	-
LSES 180 LUR	15	976	31.5	91.2	0.79	982	30.5	91.6	0.75	-	-	-	-
LSES 200 L	18.5	976	37.6	91.7	0.82	982	35.8	92.3	0.78	-	-	-	-
LSES 200 LU	22	978	43.8	92.2	0.79	984	42.2	92.7	0.74	-	-	-	-
LSES 225 MG	30	984	57.4	92.9	0.86	986	54.6	93.4	0.82	-	-	-	-
LSES 250 ME	37	984	69.2	93.6	0.86	988	66.1	94.0	0.83	-	-	-	-
LSES 280 SC	45	982	85.2	93.7	0.86	986	79.5	94.1	0.84	-	-	-	-
LSES 280 MD	55	984	102	94.3	0.86	988	96.1	94.8	0.84	-	-	-	-
LSES 315 SP	75	990	149	94.8	0.80	992	145	95.2	0.76	-	-	-	-
LSES 315 MP	90	990	177	95.0	0.82	992	169	95.1	0.78	-	-	-	-
LSES 315 MR	110	988	215	95.1	0.82	992	203	95.7	0.78	-	-	-	-
LSES 315 MR	132	990	260	95.4	0.81	990	245	95.5	0.78	-	-	-	-