Electrical and mechanical characteristics
IE2 - Powered by the mains

Type	Rated power	Rated torque	Starting torque/ Rated torque	Maximum torque/ Rated torquet	Starting current/ Rated current	Moment of inertia	Weight	Noise	400V / 50Hz								
									Rated speed	Rated current	Efficiency IEC 60034-2-1 2014			Power factor			
	P_n kW	M_n N.m	M_d/M_n	M_m/M_n	I_d/I_n	J kg.m²	IM B3 kg	LP db(A)	N_n min⁻¹	I_n A	4/4	3/4	2/4	4/4	Cos φ 3/4	2/4
2 poles																	
FLSES 80L	0.75	2.5	2.65	3.15	6.3	0.00084	15.9	59	2845	1.6	79.80	80.80	79.30	0.86	0.79	0.67	
FLSES 80L	1.1	3.7	2.65	3.05	6.4	0.00095	16.2	60	2850	2.3	80.90	82.30	81.60	0.85	0.78	0.65	
FLSES 90SL	1.5	5	2.55	2.7	6.25	0.00201	22.8	67	2860	3	85.90	85.90	85.80	0.86	0.81	0.71	
FLSES 90L	2.2	7.3	2.62	2.82	6.26	0.00223	23.9	67	2875	4.5	83.50	85.40	85.60	0.83	0.76	0.63	
FLSES 100L	3	9.9	4.4	3.94	7.69	0.00297	31.9	67	2890	6.1	85.10	84.80	84.00	0.83	0.76	0.63	
FLSES 112MG	4	13.1	1.9	3.05	7.35	0.00822	42.2	66	2925	7.6	88.30	89.00	88.10	0.86	0.81	0.70	
FLSES 132SM	5.5	18	1.8	2.65	5.85	0.00898	66.6	66	2925	10.3	89.90	90.90	90.70	0.86	0.83	0.74	
FLSES 132SM	7.5	24.4	1.8	2.51	5.77	0.00974	69.4	67	2930	14.1	90.30	91.10	90.90	0.85	0.80	0.70	
FLSES 132M	9	29.3	1.9	2.81	6.5	0.01102	74.4	67	2935	16.8	90.90	91.70	91.40	0.85	0.80	0.71	
FLSES 160M	11	35.6	2.8	3.15	7.83	0.049	112	68	2950	20.1	90.70	91.20	90.80	0.87	0.83	0.75	
FLSES 160M	15	48.6	2.95	2.8	6.95	0.049	120	69	2945	26.7	91.20	92.00	92.10	0.89	0.87	0.81	
FLSES 160L	18.5	60.2	2.6	2.95	7.7	0.0551	129	69	2935	32.7	91.50	92.50	92.90	0.89	0.87	0.81	
FLSES 180M	22	71.5	2.95	3.05	7.95	0.1333	162	68	2940	39.3	92.00	93.00	93.20	0.88	0.86	0.79	
FLSES 200LU	30	97.1	2.1	3.05	7.2	0.2035	210	71	2950	53.9	92.60	93.00	92.70	0.87	0.84	0.77	
FLSES 200LU	37	120	2.05	3.35	6.9	0.1388	230	75	2945	65.2	93.00	93.60	93.50	0.88	0.86	0.80	
FLSES 225MR	45	145	2.57	3.42	7.9	0.1597	254	71	2956	81.9	94.30	94.60	94.30	0.84	0.80	0.70	
FLSES 250M	55	177	2.1	3.2	7.7	0.3356	378	79	2968	95.8	94.00	94.10	93.20	0.88	0.85	0.79	
FLSES 280S	75	241	2.07	2.73	6.9	0.48	565	79	2966	127	93.80	94.10	94.00	0.91	0.89	0.85	
FLSES 280M	90	290	2.18	2.78	7.3	0.57	615	80	2967	153	94.10	94.40	94.30	0.90	0.89	0.85	
FLSES 315S	110	353	2.07	2.57	6.5	1.45	940	80	2975	187	94.30	94.30	94.00	0.90	0.89	0.84	
FLSES 315M	132	424	2.07	2.5	6.65	1.25	1015	80	2975	223	94.60	94.60	94.30	0.90	0.89	0.84	
FLSES 315LA	160	514	2.1	2.83	6.5	1.34	1088	80	2975	274	94.80	94.80	94.50	0.89	0.87	0.83	
FLSES 315LB	200	642	2.1	2.86	6.82	1.45	1150	80	2973	337	95.00	95.00	94.70	0.90	0.88	0.84	
FLSES 355LA	250	802	2.2	2.85	6.83	3.02	1590	82	2978	428	95.00	95.00	94.70	0.88	0.86	0.80	
FLSES 355LB	315	1008	2.55	3	7.72	3.62	1740	82	2983	544	95.00	95.00	94.70	0.88	0.86	0.82	
FLSES 355LC	355	1137	2.8	2.67	6.88	3.64	1770	82	2981	620	95.00	95.00	94.70	0.87	0.85	0.81	
FLSES 355LD	400	1282	1.88	2.58	6.87	3.7	1800	82	2989	683	95.00	95.00	94.70	0.89	0.87	0.81	
FLSES 355LKB	450	1439	2.2	5.26	12.5	6.4	2550	93	2991	760	95.00	94.50	93.50	0.90	0.87	0.80	
FLSES 400LB	560	1789	1.2	5.64	9.7	7.4	2640	93	2988	920	95.00	94.51	93.34	0.93	0.91	0.87	
4 poles																	
FLSES 80LG	0.75	4.95	2	2.9	5.7	0.00265	20	45	1445	1.7	80.90	81.70	80.10	0.79	0.71	0.57	
FLSES 90SL	1.1	7.3	1.95	2.75	5.8	0.00336	22.3	51	1440	2.4	81.80	83.30	82.40	0.81	0.74	0.60	
FLSES 90L	1.5	10	2.39	2.94	6.8	0.00418	24.6	49	1440	3.15	83.10	84.50	84.00	0.82	0.74	0.61	
FLSES 100L	2.2	14.5	2.55	3.15	6.65	0.00567	33.2	50	1445	4.55	85.10	86.20	85.80	0.82	0.75	0.62	
FLSES 100LG	3	19.7	2.31	2.81	6.76	0.00997	38.5	50	1452	6	86.90	87.70	88.10	0.83	0.77	0.66	
FLSES 112MU	4	26.3	2	2.8	6.2	0.01312	46.6	50	1450	7.9	87.00	88.30	88.10	0.84	0.80	0.70	
FLSES 132SM	5.5	36	2.5	3.2	7.4	0.01925	66.3	60	1458	10.7	88.60	89.70	89.50	0.83	0.77	0.65	
FLSES 132M	7.5	49.3	2.5	3.05	7.15	0.02286	71	60	1454	14.4	89.10	90.30	90.50	0.85	0.79	0.68	
FLSES 132M	9	59.1	2.8	3.35	7.75	0.02722	78	61	1454	17.5	89.70	90.70	90.60	0.83	0.77	0.65	
FLSES 160M	11	71.6	2.3	2.7	7.74	0.0601	114	55	1468	20.8	91.10	92.00	92.00	0.84	0.79	0.68	
FLSES 160L	15	98	2.5	3.35	7.78	0.0551	115	59	1462	28	91.00	92.00	92.10	0.85	0.79	0.68	
FLSES 180MT	18.5	121	2.65	3.3	8	0.0844	135	58	1464	34.7	91.20	92.00	92.00	0.84	0.79	0.67	
FLSES 180L	22	143	3	2.95	7.6	0.1333	170	70	1466	41	92.30	93.10	93.10	0.84	0.80	0.70	
FLSES 200LU	30	195	2.6	2.15	6.26	0.2035	250	66	1472	56.7	92.30	93.20	93.20	0.83	0.79	0.69	
FLSES 225SR	37	240	2.7	2.65	6.55	0.2467	275	66	1470	69.5	93.00	93.70	93.80	0.83	0.79	0.69	
FLSES 225M	45	289	2.11	2.71	6.64	0.6482	380	65	1486	84.7	93.50	93.90	93.80	0.82	0.77	0.67	
FLSES 250MR	55	354	2.05	2.45	6.85	0.7701	440	67	1482	102	94.00	94.40	94.30	0.83	0.79	0.70	
FLSES 280S	75	482	2.31	2.84	7.6	0.85	600	70	1484	137	94.00	94.20	93.90	0.84	0.80	0.71	
FLSES 280M	90	579	2.69	2.67	8	0.98	645	75	1483	164	94.20	94.40	94.10	0.84	0.82	0.72	
FLSES 315S	110	707	2.07	2.66	6.9	2.02	940	75	1486	200	94.50	94.70	94.30	0.84	0.81	0.73	
FLSES 315M	132	848	2.77	2.76	6.68	2.09	985	75	1487	237	94.70	94.90	94.50	0.85	0.82	0.76	
FLSES 315LA	160	1030	2.3	2.55	6.28	2.72	1055	75	1484	286	94.90	95.10	94.70	0.85	0.85	0.78	
FLSES 315LB	200	1285	2.75	3.0	7.1	2.86	1245	75	1486	357	95.10	95.30	94.90	0.85	0.81	0.72	
FLSES 355LA	250	1604	2.55	3.1	7.45	4.9	1445	80	1488	441	95.10	95.30	94.90	0.86	0.82	0.71	
FLSES 355LAL	280	1798	2.4	2.94	7.4	5.8	1560	80	1487	488	95.10	95.30	94.90	0.87	0.85	0.78	
FLSES 355LB	315	2020	2.46	2.9	7.5	6.56	1720	80	1488	550	95.10	95.30	94.90	0.87	0.84	0.76	
FLSES 355LC	355	2280	2.36	2.74	7.47	6.56	1740	82	1487	612	95.10	95.30	94.90	0.88	0.86	0.80	
FLSES 355LD	400	2577	1.68	2.72	7.73	6.6	1750	82	1488	690	95.10	95.30	94.90	0.88	0.87	0.83	
FLSES 355LKB	450	2880	1.47	3.47	8.3	11.5	2530	82	1490	789	95.10	95.07	94.67	0.87	0.83	0.74	
FLSES 400LB	500	3217	1.32	3.1	7.54	11.5	2630	82	1490	869	95.10	95.27	94.99	0.87	0.85	0.77	
FLSES 450LA	550	3520	1.48	2.19	6.7	23.7	3100	84	1492	950	95.10	95.50	95.00	0.88	0.87	0.82	
FLSES 450LB	675	4323	1.67	2.74	6.9	26.55	3775	84	1491	1192	95.10	95.60	95.30	0.86	0.85	0.80	
FLSES 450LD	800	5117	2.1	2.9	8.5	34.8	4400	84	1493	1397	95.10	95.60	95.20	0.87	0.85	0.77	
FLSES 450LD	900	5761	1.9	2.58	7.6	34.8	4400	84	1492	1571	95.10	95.50	95.00	0.87	0.85	0.77	
6 poles																	
FLSES 90SL	0.75	7.6	2	2.3	4.2	0.00338	23.1	44	945	2	78.20	78.90	76.50	0.70	0.61	0.48	
FLSES 90L	1.1	11.2	1.9	2.4	4.3	0.00437	26.1	42	940	2.85	79.10	80.50	79.20	0.71	0.62	0.49	
FLSES 100LG	1.5	14.9	1.8	2.25	4.55	0.01363	39.2	42	960	3.75	81.60	82.80	81.70	0.71	0.64	0.51	
FLSES 112MG	2.2	21.9	1.9	2.4	4.9	0.01523	42.5	43	960	5.4	81.80	82.90	81.70	0.72	0.64	0.50	
FLSES 132SM	3	29.7	2.1	2.45	5.4	0.02194	63.1	50	966	6.85	85.30	86.30	85.70	0.74	0.68	0.56	
FLSES 132M	4	39.7	2.15	2.5	5.55	0.02528	65.0	50	962	8.75	85.30	86.80	86.70	0.77	0.70	0.58	
FLSES 132M	5.5	54.4	2.55	2.75	5.8	0.03027	72.9	53	966	12.6	86.10	87.20	86.70	0.73	0.66	0.53	
FLSES 160M	7.5	73.5	1.85	2.95	5.83	0.0912	114	58	974	16.6	88.00	88.10	86.40	0.74	0.66	0.52	
FLSES 160LUR	11	108	1.85	2.75	6.0	0.1378	135	59	974	23.6	88.80	89.10	88.00	0.76	0.69	0.57	
FLSES 180L	15	147	2.55	3	6.9	0.2048	170	60	972	30.1	89.80	90.80	90.70	0.80	0.75	0.64	
FLSES 200LU	18.5	181	2.15	2.95	6.65	0.2588	210	61	978	37.7	90.70	91.30	90.70	0.78	0.72	0.60	
FLSES 200LU	22	216	2.1	2.35	6.16	0.2588	260	61	972	42.7	91.10	92.10	92.50	0.82	0.78	0.70	
FLSES 225M	30	291	2.2	2.45	6.55	0.8802	342	64	984	55.5	93.10	93.60	93.30	0.84	0.80	0.71	
FLSES 250M	37	358	2.45	2.65	6.95	0.9142	397	64	986	68	92.60	93.10	92.80	0.85	0.81	0.71	
FLSES 280S	45	436	2.9	3.1	7.48	1.06	555	64	986	83	92.70	92.90	92.60	0.84	0.80	0.70	
FLSES 280M	55	533	2.86	3.16	7.22	1.28	605	64	986	102	93.10	93.30	92.90	0.84	0.79	0.69	
FLSES 315S	75	723	2	2.1	6.65	2.5	965	70	991	145	93.70	93.90	93.50	0.80	0.77	0.67	
FLSES 315M	90	867	2.7	2	7.0	2.96	1035	69	991	173	94.00	94.20	93.80	0.80	0.77	0.67	
FLSES 315LA	110	1062	2.8	2.2	6.6	3.44	1150	69	989	211	94.30	94.50	94.10	0.80	0.79	0.68	
FLSES 315LB	132	1271	3.1	2.3	6.9	3.77	1165	67	992	252	94.60	94.80	94.40	0.80	0.74	0.64	
FLSES 355LA	160	1539	2	2.96	7.26	8.02	1520	76	993	287	94.80	95.00	94.60	0.85	0.81	0.73	
FLSES 355LB	200	1923	1.86	2.63	7	9.84	1750	76	992	349	95.00	95.20	94.80	0.87	0.84	0.77	
FLSES 355LC	250	2404	2.19	3	7.49	10.44	1800	76	994	463	95.00	95.20	94.80	0.82	0.78	0.67	
FLSES 355LKA	315	3029	2.06	3.1	7.73	12.56	2330	79	993	584	95.00	95.20	94.80	0.82	0.78	0.68	
FLSES 355LKB	355	3418	1.80	2.65	6.94	14.07	2500	79	992	650	95.00	95.20	94.80	0.83	0.78	0.68	
FLSES 355LKC	400	3859	1.7	2.5	6.6	14	2590	79	990	715	95.00	95.40	95.20	0.85	0.82	0.75	
FLSES 450LA	450	4315	2.07	3.07	7.9	33	3230	80	996	855	95.00	95.50	95.10	0.80	0.76	0.65	
FLSES 450LB	560	5369	2.17	3.05	7.9	35	3400	80	996	1091	95.00	95.50	95.20	0.78	0.72	0.62	
FLSES 450LC	630	6041	2.65	3.2	7	48	4365	80	996	1212	95.00	95.50	95.00	0.79	0.75	0.65	
FLSES 450LC	710	6815	2.35	2.85	6.3	48	4365	80	995	1348	95.00	95.50	95.20	0.80	0.76	0.66	

Electrical and mechanical characteristics
IE2 - Powered by the mains

Type	Rated power at 50Hz	380V / 50Hz				415V / 50Hz				460V / 60Hz				
		Rated speed	Rated current	Efficiency	Power factor	Rated speed	Rated current	Efficiency	Power factor	Rated speed	Rated torque at 60Hz	Rated current	Efficiency	Power factor
	P_n kW	N_n min^{-1}	I_n A	η 4/4	Cos φ 4/4	N_n min^{-1}	I_n A	η 4/4	Cos φ 4/4	N_n min^{-1}	M_n N_m	I_n A	η 4/4	Cos φ 4/4
2 poles														
FLSES 80L	0.75	2815	1.65	78.60	0.88	2860	1.55	80.20	0.84	3470	2.06	1.4	81.70	0.83
FLSES 80L	1.1	2825	2.4	80.10	0.87	2865	2.3	82.20	0.82	3480	3	2.05	83.40	0.82
FLSES 90SL	1.5	2840	3.15	82.90	0.88	2875	2.9	84.90	0.85	3490	4.1	2.6	85.90	0.85
FLSES 90L	2.2	2855	4.65	84.30	0.85	2885	4.5	85.10	0.83	3505	6	4	87.00	0.80
FLSES 100L	3	2865	6.25	84.60	0.86	2900	6.05	85.00	0.81	3485	8.2	5.15	86.80	0.84
FLSES 112MG	4	2910	7.85	87.80	0.88	2930	7.50	88.50	0.84	3535	10.8	6.6	89.60	0.85
FLSES 132SM	5.5	2910	10.8	88.70	0.87	2930	10	90.20	0.85	3540	14.8	8.9	90.70	0.85
FLSES 132SM	7.5	2920	15	88.10	0.86	2940	14	90.60	0.83	3550	20.2	12.3	91.40	0.84
FLSES 132M	9	2925	17.5	90.30	0.87	2940	16.6	91.10	0.83	3550	24.2	14.6	92.00	0.84
FLSES 160M	11	2940	21.1	89.90	0.88	2954	19.7	91.10	0.85	3554	29.6	17.5	91.20	0.86
FLSES 160M	15	2930	28.1	90.30	0.90	2950	25.6	92.30	0.88	3554	40.3	22.7	92.80	0.89
FLSES 160L	18.5	2935	34.7	90.90	0.90	2945	31.6	92.50	0.88	3550	49.8	28.1	93.00	0.89
FLSES 180M	22	2925	41	91.30	0.89	2945	37.7	92.30	0.88	3554	59.1	33.8	93.00	0.88
FLSES 200LU	30	2945	56.2	92.00	0.88	2954	51.8	93.90	0.86	3554	80.6	46.2	94.00	0.87
FLSES 200LU	37	2935	68.5	92.50	0.89	2950	62.9	94.20	0.87	3552	99.5	56.1	94.10	0.88
FLSES 225MR	45	2950	84.2	94.30	0.86	2960	80.7	94.40	0.82	3564	121	70.6	95.10	0.84
FLSES 250M	55	2966	99.7	93.70	0.89	2972	87.5	94.40	0.87	3574	147	83.2	94.30	0.88
FLSES 280S	75	2962	133	93.80	0.91	2958	123	93.90	0.90	3566	201	111	93.60	0.91
FLSES 280M	90	2961	160	94.10	0.91	2971	148	94.20	0.90	3567	241	131	94.50	0.91
FLSES 315S	110	2974	197	94.30	0.90	2978	182	94.40	0.89	3576	294	164	94.50	0.89
FLSES 315M	132	2974	236	94.60	0.90	2978	218	94.60	0.89	3576	352	196	95.00	0.89
FLSES 315LA	160	2973	285	94.80	0.90	2977	264	94.90	0.89	3575	427	237	95.20	0.89
FLSES 315LB	200	2973	355	95.00	0.90	2977	329	95.10	0.89	3575	534	296	95.40	0.89
FLSES 355LA	250	2976	449	95.00	0.89	2982	416	95.10	0.88	3578	667	374	95.40	0.88
FLSES 355LB	315	2981	566	95.00	0.89	2985	524	95.10	0.88	3583	840	471	95.40	0.88
FLSES 355LC	355	2979	645	95.00	0.88	2983	597	95.10	0.87	3581	947	537	95.40	0.87
FLSES 355LD	400	2987	710	95.00	0.90	2991	657	95.10	0.89	3589	1064	591	95.40	0.89
FLSES 355LKB	450	2990	792	94.90	0.91	2991	736	95.10	0.90	3592	1196	658	95.40	0.90
FLSES 400LB	560	2987	965	94.90	0.93	2990	891	95.10	0.92	3590	1490	799	95.40	0.92
4 poles														
FLSES 80LG	0.75	1435	1.75	80.30	0.82	1450	1.7	81.00	0.76	1756	4.1	1.5	83.60	0.75
FLSES 90SL	1.1	1430	2.45	81.40	0.84	1445	2.35	82.20	0.79	1752	6	2.1	84.60	0.78
FLSES 90L	1.5	1430	3.25	82.80	0.84	1445	3.15	83.50	0.80	1756	8.2	2.8	85.60	0.79
FLSES 100L	2.2	1435	4.65	84.30	0.85	1450	4.45	85.40	0.80	-	-	-	-	-
FLSES 100LG	3	1445	6.15	86.10	0.86	1456	5.8	87.20	0.82	1762	16.3	5.2	89.00	0.82
FLSES 112MU	4	1440	8.2	86.60	0.86	1454	7.6	88.10	0.83	1760	21.7	7.05	89.40	0.80
FLSES 132SM	5.5	1450	11	87.90	0.86	1460	10.6	88.90	0.81	1764	29.8	9.45	905.00	0.81
FLSES 132M	7.5	1445	14.7	88.70	0.87	1458	14.2	89.50	0.82	1762	40.6	12.5	90.90	0.83
FLSES 132M	9	1450	17.8	89.20	0.86	1458	17.3	89.90	0.81	1764	48.7	15.2	91.30	0.82
FLSES 160M	11	1464	21.4	90.50	0.86	1472	20.5	91.30	0.82	1772	59.3	18	92.20	0.83
FLSES 160L	15	1458	29.1	90.60	0.87	1468	27.9	91.20	0.82	1770	80.9	24.5	92.40	0.83
FLSES 180MT	18.5	1460	36.3	91.20	0.85	1468	34.5	91.30	0.82	1770	99.8	30.2	92.70	0.83
FLSES 180L	22	1462	42.4	91.80	0.86	1470	40	92.50	0.83	1772	119	35.6	93.40	0.83
FLSES 200LU	30	1466	58.4	92.30	0.85	1476	55.5	92.80	0.81	1780	161	48.8	93.80	0.82
FLSES 225SR	37	1466	71.4	92.70	0.85	1474	68	93.40	0.81	1776	199	60.1	94.20	0.82
FLSES 225M	45	1484	87.7	93.10	0.85	1486	83.2	93.60	0.80	1788	240	74.7	93.90	0.81
FLSES 250MR	55	1480	107	93.50	0.84	1484	99.3	94.20	0.82	1784	294	88.3	95.30	0.82
FLSES 280S	75	1482	143	94.00	0.85	1486	134	94.10	0.83	1784	401	119	94.50	0.84
FLSES 280M	90	1481	169	94.20	0.86	1485	158	94.30	0.84	1785	481	141	94.50	0.85
FLSES 315S	110	1483	208	94.50	0.85	1487	193	95.50	0.83	1786	588	173	95.00	0.84
FLSES 315M	132	1484	246	94.70	0.86	1487	231	94.80	0.84	1787	705	205	95.00	0.85
FLSES 315LA	160	1482	298	94.90	0.86	1486	279	95.00	0.84	1784	856	248	95.20	0.85
FLSES 315LB	200	1483	372	95.10	0.86	1487	348	95.20	0.84	1784	1071	310	95.40	0.85
FLSES 355LA	250	1487	459	95.10	0.87	1490	430	95.20	0.85	1788	1335	382	95.40	0.86
FLSES 355LAL	280	1486	508	95.10	0.88	1489	476	95.20	0.86	1787	1496	423	95.40	0.87
FLSES 355LB	315	1485	572	95.10	0.88	1488	535	95.20	0.86	1787	1683	476	95.40	0.87
FLSES 355LC	355	1484	637	95.10	0.89	1488	596	95.20	0.87	1787	1897	531	95.40	0.88
FLSES 355LD	400	1486	743	95.10	0.86	1487	696	95.20	0.84	1788	2136	619	95.40	0.85
FLSES 355LKB	450	1489	818	95.00	0.88	1491	774	95.20	0.85	1792	2398	686	95.80	0.86
FLSES 400LB	500	1488	909	95.00	0.88	1491	850	95.20	0.86	1792	2664	753	95.80	0.87
FLSES 450LA	550	1491	988	95.10	0.89	1492	926	95.10	0.87	1793	2929	819	95.80	0.88
FLSES 450LB	675	1490	1241	95.10	0.87	1492	1163	95.10	0.85	1792	3597	1028	95.80	0.86
FLSES 450LD	800	1492	1437	95.10	0.89	1494	1378	95.10	0.85	1794	4258	1205	95.80	0.87
FLSES 450LD	900	1491	1636	95.10	0.88	1493	1551	95.10	0.85	1793	4793	1355	95.80	0.87
6 poles														
FLSES 90SL	0.75	940	2	77.10	0.74	954	1.95	78.10	0.68	1158	6.2	1.75	81.50	0.65
FLSES 90L	1.1	930	2.9	78.10	0.74	950	2.85	79.30	0.68	-	-	-	-	-
FLSES 100LG	1.5	954	3.8	80.40	0.74	966	3.65	81.90	0.70	-	-	-	-	-
FLSES 112MG	2.2	954	5.45	81.80	0.75	964	5.4	82.00	0.69	-	-	-	-	-
FLSES 132SM	3	960	7.05	84.20	0.77	968	6.75	85.60	0.72	1172	24.4	6	87.50	0.72
FLSES 132M	4	954	9.1	84.60	0.79	966	8.8	85.90	0.74	1170	32.6	7.7	87.90	0.74
FLSES 132M	5.5	960	13	85.50	0.75	970	13	86.40	0.68	-	-	-	-	-
FLSES 160M	7.5	970	16.7	87.80	0.77	976	16.6	87.90	0.72	1180	60.7	14.8	89.60	0.71
FLSES 160LUR	11	972	24	88.70	0.79	978	23.4	88.80	0.74	1178	89.2	20.7	90.30	0.74
FLSES 180L	15	968	31	89.70	0.82	976	29.6	90.20	0.78	1176	122	26.2	91.20	0.79
FLSES 200LU	18.5	974	38.5	90.40	0.81	980	37.6	90.80	0.75	1178	150	32.7	92.20	0.77
FLSES 200LU	22	968	44.8	90.10	0.83	976	41.3	91.40	0.81	1178	178	37	92.20	0.81
FLSES 225M	30	984	57.3	92.70	0.86	986	54.1	93.40	0.83	1186	242	47.9	93.70	0.84
FLSES 250M	37	984	70.5	92.30	0.87	986	66.9	92.80	0.83	1190	297	58.9	94.10	0.84
FLSES 280S	45	984	85	92.70	0.87	987	81	92.80	0.83	1186	362	71	93.60	0.85
FLSES 280M	55	984	104	93.10	0.86	988	99	93.20	0.83	1186	443	87	93.60	0.85
FLSES 315S	75	989	147	93.70	0.83	992	141	93.80	0.79	1191	601	124	94.10	0.81
FLSES 315M	90	987	177	94.00	0.82	990	171	94.10	0.78	1189	723	150	94.10	0.80
FLSES 315LA	110	987	214	94.30	0.83	991	203	94.40	0.80	1189	883	177	95.00	0.82
FLSES 315LB	132	988	147	94.60	0.86	991	249	94.70	0.78	1190	1059	218	95.00	0.80
FLSES 355LA	160	991	302	94.80	0.85	994	283	94.90	0.83	1193	1281	249	95.00	0.85
FLSES 355LB	200	991	390	95.00	0.82	994	357	95.10	0.82	1193	1601	315	95.00	0.84
FLSES 355LC	250	991	488	95.00	0.82	994	463	95.10	0.79	1193	2001	408	95.00	0.81
FLSES 355LKA	315	991	607	95.00	0.83	994	576	95.10	0.80	1193	2521	508	95.00	0.82
FLSES 355LKB	355	990	676	95.00	0.84	993	641	95.10	0.81	1192	2844	565	95.00	0.83
FLSES 355LKC	400	989	753	95.00	0.85	992	706	95.00	0.83	1189	3213	622	95.00	0.85
FLSES 450LA	450	995	867	95.00	0.83	996	856	95.00	0.77	1196	3593	743	95.00	0.80
FLSES 450LB	560	995	1106	95.00	0.81	996	1108	95.00	0.74	1196	4471	949	95.00	0.78
FLSES 450LC	630	995	1244	95.00	0.81	997	1214	95.00	0.76	1197	5026	1054	95.00	0.79
FLSES 450LC	710	994	1385	95.00	0.82	996	1268	95.00	0.82	1196	5669	1173	95.00	0.80

IP55 Cast iron frame

Electrical and mechanical characteristics
IE2 - Powered by the drive

Type	400V / 50Hz				Rated torque M_n at S1 continuous duty					400V / 87Hz Δ				Maximum mechanical speed[1]
	Rated power P_n kW	Rated speed N min^{-1}	Rated current I_n A	Power factor Cos φ 4/4	10Hz N.m	17Hz N.m	25Hz N.m	50Hz N.m	87Hz N.m	Rated power P_n kW	Rated current I_n A	Efficiency Cos φ 4/4	Power factor Cos φ 4/4	
2 poles														
FLSES 80 L	0.75	2845	1.6	0.86	2.3	2.5	2.5	2.5	1.4	1.3	4928	3.1	0.86	13500
FLSES 80 L	1.1	2850	2.3	0.85	3.2	3.7	3.7	3.7	2.1	1.9	4936	4.6	0.85	13500
FLSES 90 SL	1.5	2855	3	0.87	4.3	5.0	5.0	5.0	2.9	2.6	4945	6	0.87	11700
FLSES 90 L	2.2	2855	4.4	0.86	6.3	7.4	7.4	7.4	4.2	3.8	4945	8.9	0.86	11700
FLSES 100 L	3.0	2855	5.7	0.87	8.6	10.1	10.1	10.1	5.8	5.2	4945	11.4	0.87	9900
FLSES 112 MG	4	2925	7.6	0.86	11.1	13.1	13.1	13.1	7.5	7.0	5066	14.7	0.86	9900
FLSES 132 SM	5.5	2925	10.3	0.86	15.3	18	18	18	10.3	9.6	5066	20.6	0.86	6700
FLSES 132 SM	7.5	2920	13.9	0.87	20.8	23.3	24.5	24.5	14.1	13.1	5058	28.2	0.87	6700
FLSES 132 M	9	2925	16.8	0.86	25.0	27.9	29.4	29.4	16.9	15.7	5066	33.1	0.86	6700
FLSES 160 M	11	2950	20.3	0.86	30.3	33.8	35.6	35.6	20.5	19.1	5110	39.1	0.86	6030
FLSES 160 M	15	2945	26.7	0.89	41.3	46.2	48.6	48.6	27.9	26.1	5101	52.4	0.89	6030
FLSES 160 L	18.5	2935	32.7	0.89	51.2	57.2	60.2	60.2	34.6	32.2	5084	65.1	0.89	5670
FLSES 180 MR	22	2940	39.3	0.88	57.6	64.4	67.8	71.5	38.9	36.3	5092	74.3	0.88	5670
FLSES 200 LU	30	2950	53.9	0.87	82.5	87.4	97.1	97.1	-	-	-	-	-	4500
FLSES 200 LU	37	2945	65.2	0.88	96	108	120	120	-	-	-	-	-	4500
FLSES 225 MR	45	2952	80.7	0.86	117	131	146	146	-	-	-	-	-	4320
FLSES 250 M	55	2968	95.8	0.88	142	159	177	177	-	-	-	-	-	4050
FLSES 280 S	75	2964	135	0.91	191	216	243	243	-	-	-	-	-	3600
FLSES 280M	90	2965	164	0.91	229	259	291	291	-	-	-	-	-	3600
FLSES 315S	110	2976	202	0.9	278	315	353	353	-	-	-	-	-	3600
FLSES 315 M	132	2976	243	0.9	333	378	423	423	-	-	-	-	-	3600
FLSES 315 LA	160	2975	293	0.9	404	458	513	513	-	-	-	-	-	3600
FLSES 315 LB	200	2975	365	0.9	506	573	642	642	-	-	-	-	-	3600
FLSES 355 LA	250	2978	461	0.89	785	804	802	802	-	-	-	-	-	3600
FLSES 355 LB	315	2983	580	0.89	793	900	1008	1008	-	-	-	-	-	3600
FLSES 355 LC	355	2981	663	0.88	895	1015	1137	1137	-	-	-	-	-	3600
FLSES 355 LD	400	2987	715	1	1065	1091	1130	1130	-	-	-	-	-	3600
FLSES 355 LKB	450	2990	807	0.91	1295	1367	1439	1439	-	-	-	-	-	3600
FLSES 400 LB	560	2988	975	0.94	1342	1521	1789	1789	-	-	-	-	-	3600
4 poles														
FLSES 80 LG	0.75	1445	1.7	0.79	4.5	5.0	5.0	5.0	2.8	1.3	2503	3.31	0.79	11700
FLSES 90 SL	1.1	1440	2.4	0.81	6.6	7.3	7.3	7.3	4.2	1.9	2494	4.56	0.81	11700
FLSES 90 L	1.5	1440	3.2	0.82	9.0	10	10	10	5.7	2.6	2494	6.17	0.82	9900
FLSES 100 L	2.2	1445	4.55	0.82	13.1	14.5	14.5	14.5	8.3	3.8	2503	8.9	0.82	9900
FLSES 100 LG	3	1450	6.05	0.83	17.8	19.8	19.8	19.8	11.4	5.2	2511	11.5	0.83	9900
FLSES 112 MU	4	1450	7.9	0.84	23.7	26.3	26.3	26.3	15.1	7	2511	15.6	0.84	9900
FLSES 132 SM	5.5	1458	10.7	0.83	32.4	32.4	36.0	36.0	20.7	9.6	2525	20.9	0.83	6700
FLSES 132 M	7.5	1454	14.4	0.85	44.4	44.4	49.3	49.3	28.3	13.1	2518	27.9	0.85	6700
FLSES 132 M	9	1454	17.5	0.83	53.2	53.2	59.1	59.1	34.0	15.7	2518	33.6	0.83	6700
FLSES 160 M	11	1468	20.8	0.84	60.9	68.0	71.6	71.6	41.2	19.1	2543	40.2	0.84	6030
FLSES 160 L	15	1462	28	0.85	83.3	93.1	98	98	56.3	26.1	2532	54.5	0.85	6030
FLSES 180 MT	18.5	1464	34.7	0.84	95	107	119	121	69	31.7	2536	66.2	0.84	6030
FLSES 180 L	22	1466	41	0.84	114	129	143	143	82	38.3	2539	80.4	0.84	6030
FLSES 200 LU	30	1470	56.3	0.83	166	185	195	195	112	52.2	2546	110	0.83	4500
FLSES 225 SR	37	1470	69.6	0.83	204	228	240	240	138	64.4	2546	135	0.83	4320
FLSES 225 M	45	1484	82	0.84	247	276	290	290	167	78.3	2570	162	0.84	4050
FLSES 250 MR	55	1482	102	0.83	301	336	354	354	203	95.7	2567	198	0.83	4050
FLSES 280 S	75	1485	148	0.84	382	433	485	485	274	-	-	-	-	2160
FLSES 280 M	90	1485	177	0.84	458	519	581	581	329	-	-	-	-	2160
FLSES 315 S	110	1486	210	0.86	744	744	709	709	404	-	-	-	-	2160
FLSES 315 M	132	1487	250	0.87	856	872	852	852	486	-	-	-	-	2160
FLSES 315 LA	160	1484	303	0.87	982	1019	1033	1033	585	-	-	-	-	2160
FLSES 315 LB	200	1486	374	0.87	1208	1260	1289	1289	704	-	-	-	-	2160
FLSES 355 LA	250	1488	465	0.87	1565	1607	1605	1605	915	-	-	-	-	2160
FLSES 355 LAL	280	1487	507	0.87	1733	1785	1798	1798	1036	-	-	-	-	2160
FLSES 355 LB	315	1488	594	0.87	1592	1805	2022	2022	1150	-	-	-	-	2160
FLSES 355 LC	355	1487	670	0.87	1786	2035	2280	2280	1290	-	-	-	-	2160
FLSES 355 LD	-	-	-	-	-	-	-	-	-	-	-	-	-	2160
FLSES 355 LKB	450	1489	837	0.88	2592	2736	2880	2880	1670	-	-	-	-	2610
FLSES 400 LB	500	1489	925	0.88	2413	2735	3217	3217	1834	-	-	-	-	2610
FLSES 450 LA	550	1492	1011	0.89	2816	3168	3520	3520	2023	-	-	-	-	1800
FLSES 450 LB	675	1491	1268	0.87	3458	3891	4323	4323	2484	-	-	-	-	1800
FLSES 450 LD	800	1493	1478	0.88	4094	4606	5117	5117	2941	-	-	-	-	1800
FLSES 450 LD	900	1492	1666	0.88	4609	5185	5761	5761	3311	-	-	-	-	1800
6 poles														
FLSES 90 SL	0.75	945	2	0.70	7.6	7.6	7.6	7.6	4.4	1.31	1637	3.7	0.70	11700
FLSES 90 L	1.1	940	2.9	0.71	11.2	11.2	11.2	11.2	6.4	1.91	1628	5.4	0.71	11700
FLSES 100 LG	1.5	930	3.8	0.71	14.9	14.9	14.9	14.9	8.6	2.61	1611	7.2	0.71	9900
FLSES 112MG	2.2	954	5.4	0.72	21.9	21.9	21.9	21.9	12.6	3.83	1652	10.3	0.72	9900
FLSES 132 SM	3	966	6.9	0.74	29.7	29.7	29.7	29.7	17.1	5.22	1673	13.1	0.74	6700
FLSES 132 M	4	962	8.8	0.77	39.7	39.7	39.7	39.7	22.8	6.96	1666	17.1	0.77	6700
FLSES 132 M	5.5	966	12.6	0.73	54.4	54.4	54.4	54.4	31.3	9.57	1673	24	0.73	6700
FLSES 160 M	7.5	976	14	0.84	73.4	73.4	73.4	73.4	42.2	13.05	1690	30.9	0.84	6030
FLSES 160 LUR	11	974	20.6	0.84	103	108	108	108	62	19.14	1687	44.3	0.84	6030
FLSES 180 L	15	972	27.9	0.84	118	132	147	147	84	26.10	1684	58.3	0.84	6030
FLSES 200 LU	18.5	978	34.4	0.84	145	163	181	181	104	32.19	1694	71.1	0.84	4500
FLSES 200 LU	22	972	41.5	0.84	173	194	216	216	124	38.28	1684	85.4	0.84	4500
FLSES 225 MG	30	984	55.9	0.84	262	291	291	291	167	52.20	1704	107	0.84	4050
FLSES 250 M	37	986	68	0.85	322	358	358	358	206	64.38	1708	131	0.85	4050
FLSES 280 S	45	986	89	0.85	343	389	436	436	247	-	-	-	-	1740
FLSES 280 M	55	986	108	0.85	420	476	533	533	302	-	-	-	-	1740
FLSES 315 S	75	990	155	0.80	604	685	767	767	412	-	-	-	-	1740
FLSES 315 M	90	991	187	0.80	683	774	867	867	494	-	-	-	-	1740
FLSES 315 LA	110	991	228	0.80	835	946	1060	1060	603	-	-	-	-	1740
FLSES 315 LB	132	990	272	0.80	1002	1136	1273	1273	724	-	-	-	-	1740
FLSES 355 LA	160	993	310	0.85	1211	1373	1538	1538	878	-	-	-	-	1740
FLSES 355 LB	200	993	391	0.84	1514	1716	1923	1923	1090	-	-	-	-	1740
FLSES 355 LC	250	993	507	0.81	1893	2146	2404	2404	1370	-	-	-	-	1740
FLSES 355 LKA	315	993	631	0.82	2385	2703	3029	3029	1720	-	-	-	-	1740
FLSES 355 LKB	355	992	703	0.83	2689	3047	3414	3414	1940	-	-	-	-	1740
FLSES 355 LKC	400	990	758	0.81	3087	3472	3858	3858	2200	-	-	-	-	1200
FLSES 450 LA	450	996	911	0.81	3452	3886	4315	4315	2480	-	-	-	-	1200
FLSES 450 LB	560	996	1161	0.79	4295	4832	5369	5369	3086	-	-	-	-	1200
FLSES 450 LC	630	996	1285	0.80	4833	5437	6041	6041	3472	-	-	-	-	1200
FLSES 450 LC	710	995	1432	0.81	5452	6134	6815	6815	3917	-	-	-	-	1200

(1) See Vibrations section on page 42

⚠ **Values given with a voltage drop of 30 V at the drive output**