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FLS
3-phase TEFV cage induction motors
Cast iron frame - 0.55 to 750 kW
Technical catalogue

3-phase TEFV induction motors FLS cast iron Electrical characteristics

E1 - Selection data: single-speed

2
poles
3000 min⁻¹

IP 55
Cl. F - ΔT 80 K
400 V

Can be used at 400 V ±10%
in the conditions defined
on page 61



MAINS SUPPLY Δ 230 / Y 400 V or Δ 400 V

50 Hz

Type	Power at 50 Hz kW	Rated speed min ⁻¹	Rated torque N.m	Rated current A	Power factor			Efficiency			I_d/I_n	C_d/C_n	C_m/C_n	Apparent power kVA	Torque curve N°	Moment of inertia kg.m ²	Weight kg
					50 %	75 %	100 %	50 %	75 %	100 %							
FLS 80 L	0.75	2840	2.5	1.6	0.76	0.80	0.86	73	77.4	76.9	5.9	2.4	2.2	1.1	1	0.0007	15
FLS 80 L	1.1	2837	3.7	2.4	0.65	0.77	0.84	76.6	78.5	79.5	5.6	2.7	2.4	1.6	6	0.0009	18
FLS 90 S	1.5	2870	5	3.3	0.64	0.75	0.81	79	81	82	7.3	3	3.1	2.3	5	0.0014	21
FLS 90 L	2.2	2862	7.5	4.3	0.71	0.82	0.88	82.5	84.2	84.5	8.1	3.7	3.5	3	5	0.0021	26
FLS 100 LK	3	2925	10	5.5	0.85	0.89	0.91	83	84	86	8.4	2.4	3	3.8	4	0.0069	42
FLS 112 M	4	2940	13.6	7.5	0.81	0.87	0.89	84	86	86.5	8.7	2.9	3.3	5.2	1	0.0084	48
FLS 132 S	5.5	2940	18.7	10.6	0.79	0.84	0.86	84	85.5	87	7.6	2.3	2.9	7.4	2	0.0168	67
FLS 132 S	7.5	2950	25	14.1	0.81	0.85	0.87	87	88	88	8.9	2.6	3.4	9.8	4	0.0236	70
FLS 160 MA	11	2935	35.8	20	0.82	0.86	0.88	85.3	87.3	88.4	8.6	2.8	3.2	14.1	2	0.037	97
FLS 160 MB	15	2935	48.8	27	0.82	0.86	0.88	87	89.1	89.7	8.6	2.8	3.2	19	2	0.043	108
FLS 160 L	18.5	2940	60	33	0.84	0.88	0.90	88.1	90.2	90.8	8.4	2.7	3.1	22.6	2	0.057	126
FLS 180 MR	22	2940	71	39	0.83	0.87	0.89	88.3	90.4	91	8.5	2.8	3.1	27.2	2	0.065	135
FLS 200 LA	30	2950	97	51	0.85	0.90	0.91	90.2	91.9	92.4	7.7	2.4	2.8	35.7	3	0.13	245
FLS 200 LB*	37	2959	120	63	0.84	0.89	0.9	91.3	93	93.5	8.3	3	3.4	44.4	8	0.16	265
FLS 225 MT*	45	2958	145	78	0.83	0.88	0.89	91.6	93.3	93.8	8.3	2.8	3.2	54	8	0.19	290
FLS 250 M*	55	2966	177	94	0.81	0.87	0.89	92.2	94	94.6	7.9	2.5	3.5	65	8	0.44	405
FLS 280 S*	75	2965	241	127	0.82	0.88	0.90	93	94.2	94.6	8	2.7	3.8	88	8	0.47	505
FLS 280 M*	90	2962	290	149	0.83	0.89	0.91	91.6	95.1	95.5	7.7	2.6	3.7	104	8	0.53	560
FLS 315 ST	110	2975	356	178	0.89	0.92	0.93	95	95.7	95.8	8.2	2.8	3.3	123	8	1.08	850
FLS 315 M	132	2962	427	221	0.86	0.89	0.90	93.8	95.4	96	7.5	1.8	2.7	153	9	1.71	1000
FLS 315 LA	160	2969	517	272	0.82	0.87	0.89	92.8	94.9	95.5	7.5	2	3	188	9	1.71	1050
FLS 315 LB	200	2967	647	342	0.81	0.86	0.88	93.9	95.4	96	7.7	2.3	3.4	237	8	1.99	1150
FLS 355 LA	250	2978	808	424	0.84	0.88	0.89	94	95.2	95.6	7.2	2.1	2.6	294	3	3.39	1400
FLS 355 LB	275	2980	881	464	0.84	0.88	0.89	95	96	96.2	8.4	2.3	2.9	322	10	3.39	1500
FLS 355 LB *	315	2976	1016	525	0.85	0.89	0.90	94.9	95.9	96.2	7.2	1.8	2.5	364	10	3.39	1500
FLS 355 LC	330	2980	1057	560	0.81	0.86	0.88	95.4	96.3	96.6	7.9	1.9	2.6	388	3	3.39	1915
FLS 355 LC	355	2979	1137	588	0.83	0.88	0.90	95.6	96.5	96.8	8.2	2.3	3.1	407	3	4.03	1915
FLS 355 LD *	400	2977	1284	673	0.82	0.87	0.89	95.2	96.1	96.4	7.8	2	2.7	466	3	4.03	1915

* Motors (EFF1)

• Class F temperature rise

For power ratings above 400 kW, please consult Leroy-Somer.

* Torque curve

Noise level

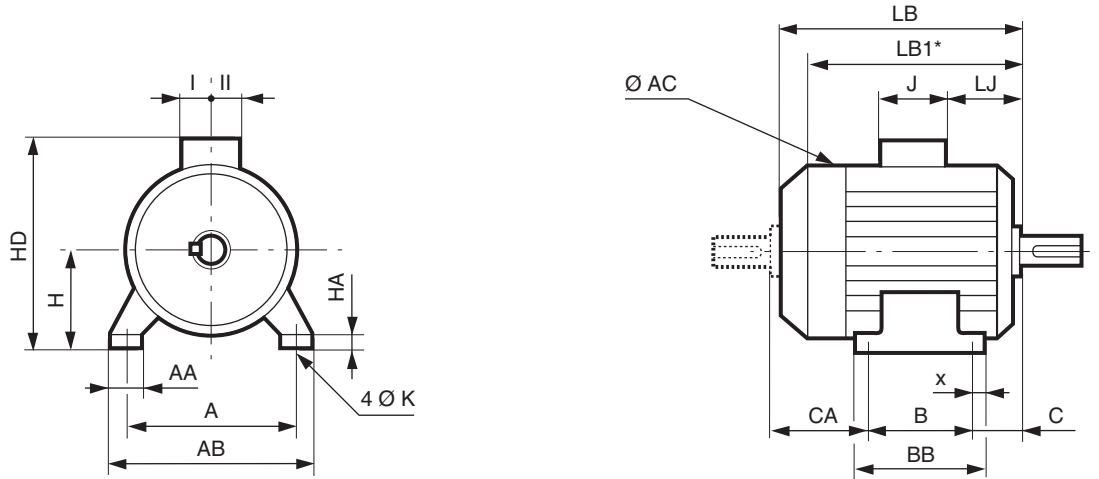
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3-phase TEFV induction motors FLS cast iron Dimensions

F2 - Foot-mounted IM B3 (IM 1001)

Dimensions in millimetres



Type	Main dimensions													FLS					FLSC					
	A	AB	B	BB	C	X	AA	K	HA	H	AC	LB	LB1*	CA	HD	LJ	J	I	II	HD	LJ	J	I	II
														HD	LJ	J	I	II	HD	LJ	J	I	II	
FLS 80 L	125	157	100	130	50	20	32	9	10	80	160	214	178	68	222	33	114	57	57	230	27	126	63	63
FLS 90 S	140	172	100	160	56	22	34	9	11	90	185	243	204	93	247	28	114	57	57	250	22	126	63	63
FLS 90 L	140	172	125	160	56	22	34	9	11	90	185	243	204	68	247	28	114	57	57	250	22	126	63	63
FLS 100 LK	160	200	140	174	63	22	42	12	12	100	226	323	276	125	276	55	114	57	57	293	37	150	75	75
FLS 112 M	190	230	140	174	70	22	45	12	12	112	226	323	276	119	288	55	114	57	57	305	37	150	75	75
FLS 132 S	216	255	140	223	89	31	58	12	15	132	264	387	328	164	323	46	114	57	57	345	28	150	75	75
FLS 132 M	216	255	178	223	89	31	58	12	15	132	264	387	328	126	323	46	114	57	57	345	28	150	75	75
FLS 132 MU	216	255	178	223	89	31	58	12	15	132	264	410	352	149	323	46	114	57	57	345	28	150	75	75
FLS 160 M	254	294	210	294	108	20	65	14	20	160	310	495	435	182	440	30	246	126	147	440	30	246	126	147
FLS 160 L	254	294	254	294	108	20	65	14	20	160	310	495	435	138	440	30	246	126	147	440	30	246	126	147
FLS 180 MR	279	324	241	295	121	25	80	14	25	180	310	515	450	158	460	30	246	126	147	460	30	246	126	147
FLS 180 L	279	330	279	335	121	28	70	14	28	180	350	555	480	160	481	42	246	126	147	481	42	246	126	147
FLS 200 L	318	374	305	361	133	28	80	18	44	200	394	681	595	248	530	51	246	126	147	530	51	246	126	147
FLS 225 ST	356	420	286	367	149	28	100	18	35	225	394	681	595	251	555	51	246	126	147	555	51	246	126	147
FLS 225 MT	356	420	311	367	149	28	100	18	35	225	394	681	595	226	555	51	246	126	147	555	51	246	126	147
FLS 225 M	356	426	311	375	149	32	80	18	27	225	540	780	630	326	656	70	352	173	210	656	70	352	173	210
FLS 250 M	406	476	349	413	168	32	80	22	27	250	540	780	630	269	681	70	352	173	210	681	70	352	173	210
FLS 280 S	457	527	368	432	190	32	80	22	27	280	540	860	710	302	711	70	352	173	210	711	70	352	173	210
FLS 280 M	457	527	419	483	190	32	80	22	27	280	540	960	810	357	711	70	352	173	210	711	70	352	173	210
FLS 315 ST	508	598	406	547	216	45	90	27	45	315	556	1068	910	452	761	68	352	173	210	761	68	352	173	210
FLS 315 M	508	600	457	598	216	45	100	27	45	315	624	1203	1030	536	835	70	452	217	269	835	70	452	217	269
FLS 315 L	508	600	508	598	216	45	100	27	45	315	632	1203	1030	485	835	70	452	217	269	835	70	452	217	269
FLS 355 LA/LB	610	710	630	710	254	40	110	27	35	355	700	1305	1118	427	910	61	452	217	269	910	61	452	217	269
FLS 355 LC/LD	610	710	630	710	254	40	110	27	35	355	700	1430	1242	552	910	61	452	217	269	910	61	452	217	269
FLS 355 LK**	610	750	630	815	254	40	128	27	45	355	787	1702	-	818	1117	52	700	224	396	1117	52	700	224	396
FLS 400 L/LV**	686	800	710	815	280	65	128	35	45	400	787	1702	-	712	1162	52	700	224	396	1162	52	700	224	396
FLS 400 LKA/LKB**	686	824	800	950	280	59	140	35	45	400	877	1740	-	660	1210	68	700	224	396	1210	68	700	224	396
FLS 450 L/LV**	750	890	800	950	315	94	140	35	45	450	877	1740	-	625	1260	68	700	224	396	1260	68	700	224	396

* LB1 : non-ventilated motor

** LB1 : possible - values to be confirmed