LITTLE KING 85 Series

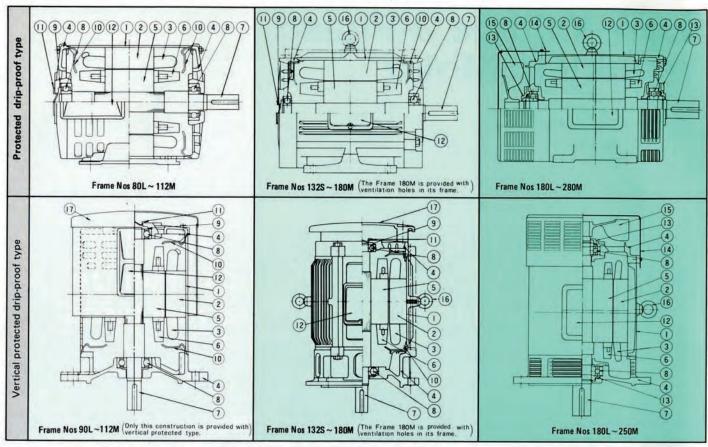


Low-Voltage 3-Phase Induction Motor

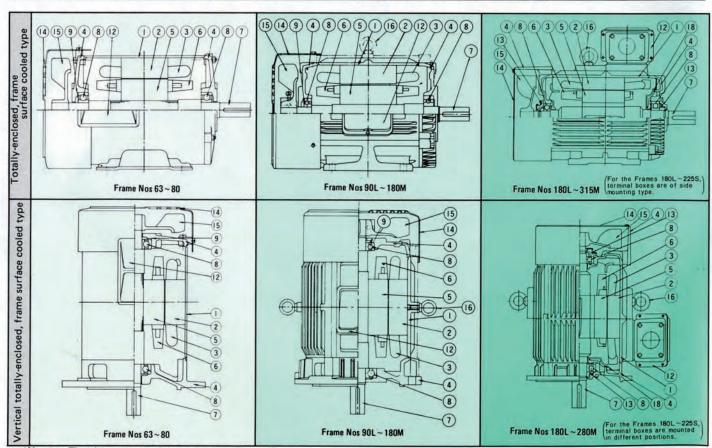
Squirrel Cage-Rotor Type



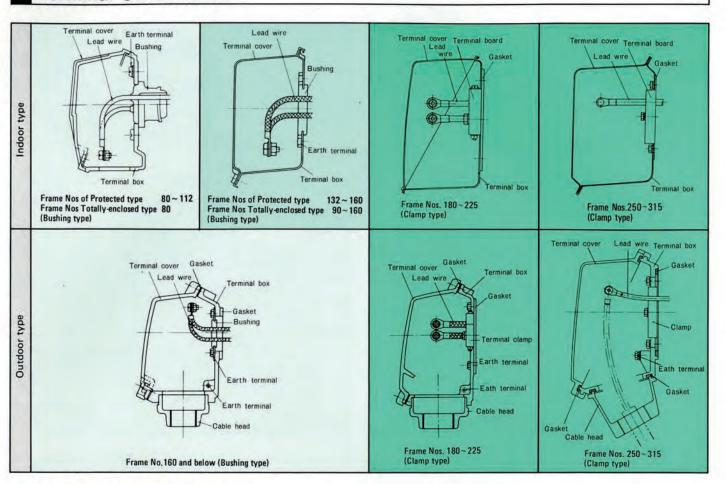
Motor Construction



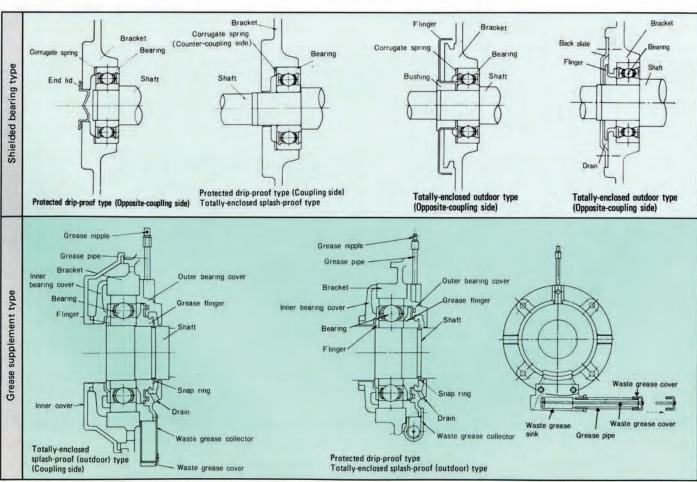
No.	Name	No.	Name	No.	Name	No.	Name
1	Frame	6	Rotor fan	(1)	End lid	16	Eye bolt
2	Stator core	7	Shaft	(2)	Terminal box	10	Drip-proof cover
3	Stator winding	8	Bearing	13	Bearing box	18	Inner cover
4	Bracket	9	Corrugate spring	(4)	Outer cover		
(5)	Rotor core	(10)	Fan guide	16	Fan		



Terminal Construction



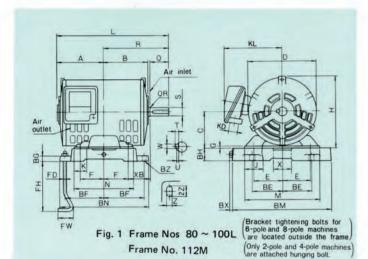
Bearing Construction



Protected Drip-Proof Type (TypeED85)

Protection type	IP22	
Cooling type	IC01	





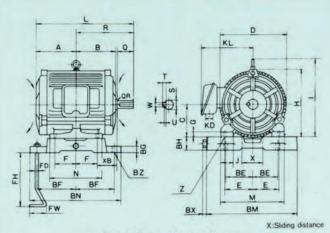


Fig. 2 Frame No. 112M (6-pole and 8-pole)

Frame		Output	(kW)		Class	Fig.									M	otor							-	
No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	A	В	С	D	E	F	G	Н	1	J	K	L	М	N	Z	XB	KD	KL
80	0.75	0.75	0.4	0.2	E	1	97.5	96	80	(155) 146	62.5	50	3	(165) 155	-	34	28	237.5	160	128	10×20	50	22	139
90∟	1.5 2.2	1.5	0.75	0.4	E	1	115.5	114	90	(170) 161	70	62.5	4	(183) 172.5	3	36	30	284	175	155	10×20	56	22	146
100L	-	2.2	1.5	0.75	E	1	130	128.5	100	(190) 182	80	70	4	(204) 193	-	42	34	323	200	175	12×24	63	22	156
112M	3.7	3.7	-	-	E	1	137.5	135.5	112	202	95	70	4	229	262	42	34	337.5	230	175	12×24	70	22	167
112M	4	-	2.2	1.5	E	2	135.5	135.5	112	225	95	70	14	233	266.5	45	+	335.5	226	176	12	70	22	170
1325	5.5 7.5	5.5	3.7	*2.2	В	3	151.5	153	132	253.5	108	70	16	270	311.5	50	-	390.5	252	176	12	89	34	213
132M	-	7.5	5.5	3.7	В	3	170.5	172	132	253.5	108	89	16	270	311.5	50	-	428.5	252	214	12	89	34	213
160M	11 15	11	7.5	5.5	В	3	207	207	160	298.5	127	105	20	318	369	60	61	530	315	262	15	108	34	238
160∟	18.5	15	11	7.5	В	3	229	229	160	298.5	127	127	20	318	369	60	63	574	315	306	15	108	34	238
160L	22	18.5	-	1	В	3	229	229	160	298.5	127	127	20	318	369	60	63	574	315	306	15	108	34	238
180M	30	22 30	15 18.5	11 15	В	4	236	(237.5) 236	180	341	139.5	120.5	22	367	427	70	65	587.5	350	294	15	121	49	320
180LH	37 45		-	-	F	5	330	256	180	378	139.5	120 5	22	365	425	70	68	700.5	350	332	15	121	62	320
180L	-	37 45	22 30	15 18.5		5	330	255	100	3/0	1 39.5	139.5	22	303	425	10	00	730.5	330	302	13	121	UL	520
200MH	55	Ü	1	1	F	5	342	262	200	418	159	133.5	25	405	465	80	80	718.5	395	334	19	133	62	344
200M%	-	55	37 45	30		3	342	262.5	200	410	139	133.5	23	403	403	80	80	748.5	333	504	13	100	- VL	-
225SH	75	1	-	-	F	5	393	286	225	473	178	143	28	457	528	85	85	795	445	353	19	149	62	374
2255%	1	75	55	37		3	333	286.5	223	4/3	170	145	20	457	520	00	00	825	113	000	13	1.40	-	-
225MH	90	1	-	-	F	5	405.5	298.5	225	473	178	155.5	28	457	528	85	85	820	445	378	19	149	62	374
225M%	1	90	75	45		3	405.5	299	225	4/3	170	1 33.3	20	457	520	00	00	850	***	0,0	, ,		92	0,1
250SH	110	ī	1	-	F	6	475	316	250	525	203	155.5	36		605	90	100	908.5	500	380	24	168	120×160	463
2505%	-	110	90	55		•		319	230	525	203	100.0	30		003	30	100	968.5	500	000		100	TEO TOO	400
250MH	132	ĺ	1	-	F	6	496	335	250	525	203	174.5	36		605	90	100	948.5	500	420	24	168	120×160	463
250M%	=	132	110	75		0	490	338	250	323	203	174.5	30		303	30	100	1008.5	300	720		100	120.1130	100
280SH	160				F	6	51.5	366	280	585	228.5	184	36		685	100	110	999	560	440	24	190	120×160	493
2805%	-	160	132	90		0	313	368	200	303	220.5	104	30		303	100	110	1059	300			,55	2000	100
280MH	200	-	=	-	F	6	569.5	391	280	585	228.5	209 5	36		685	100	110	1079	560	490	24	190	120×160	493
280M%	-	200	160	110	1	6	509.5	393	200	303	220.5	209.5	30		000	100	110	1139	300	430		130	204100	403

- <Notes> 1. Tolerance for size S is j6 for \$\phi28\$ or less, k6 for \$\phi38\$ to \$\phi48\$ and m6 for \$\phi55\$ or over, according to JIS B 0401 (Limits and fits for
 - 2. Tolerance for size C is 0 to -0.5 for 250 or less and 0 to -1.0 in case of exceeding 250.
 - 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling sides.

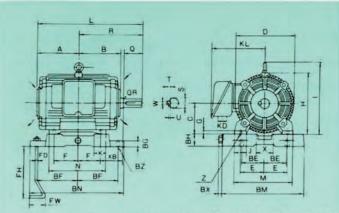


Fig. 3 Frame Nos 132S ~ 160L

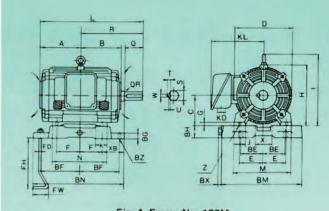
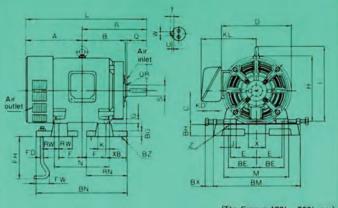
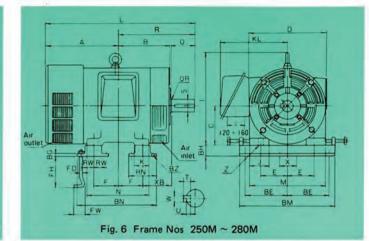


Fig. 4 Frame No. 180M







			Shaft								Slide	base	(Rail)						oundate	on	Bearin	ng No.	Appr	(kg)	Frame
R	S	Q	Т	U	W	QR	BE	BF	BG	вн	вм	BN	BZ	вх	RW	RN	x	FD	FH	FW	Goupling side	Opposite coupling side	Motor	Base	No.
140	19	40	6	3.5	6	0.3	65	90	15	30	214	210	13	9	-	-	40	10	95	40	6204ZZ	6204ZZ	11.5	2.0	80
168.5	24	50	7	4	8	0.3	70	105	15	30	230	240	13	9	-	-	40	10	95	40	6205ZZ	6205ZZ	17	2.2	90∟
193	28	60	7	4	8	0.5	80	115	20	40	270	260	13	9	-	1-1	50	10	90	40	6206ZZ	6205ZZ	24	3.0	100∟
200	28	60	7	4	8	0.5	95	115	20	40	290	260	13	9	-	-	50	10	90	40	6306ZZ	6206ZZ	35	3.5	112M
200	28	60	7	4	8	0.5	95	115	20	40	290	260	13	9	-	-	50	10	90	40	6306ZZ	6206ZZ	40	3.5	112M
239	38	80	8	5	10	0.5	110	120	25	45	355	280	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	55	5.0	1325
258	38	80	8	5	10	0.5	110	140	25	45	360	318	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	69	6.0	132M
323	42	110	8	5	12	0.5	125	165	30	50	406	380	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	100	8.5	160M
345	42	110	8	5	12	0.5	125	185	30	50	406	420	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	110	10.0	160∟
345	48	110	9	5.5	14	0.5	125	185	30	50	406	420	16	10.5	-	-	70	12	115	50	631 0ZZ	6308ZZ	130	10.0	160L
351.5	55	110	10	6	16	1	140	185	35	55	456	420	16	11.5	-	-	80	12	115	50	(6312) 6312ZZ	(6308ZZ) 631 OZZ	190	13.0	180M
370.5	55	110	10	6	16	1	-	-	-	-	-	-	-	-	-	-	-	-	9	-	6312	6308ZZ	210	-	180LH
400.5	60	140	11	7	18	0.5	140	205	35	55	456	460	16	11.5	-	-	80	12	115	50	631 3ZZ	6311ZZ	215	14	180∟
376.5	55	110	10	6	16	1	-	-	E	=		-	-	-	-	-	-	-	-	-	6312	6308ZZ	250	-	200MH
406.5	65	140	11	7	18	1	160	210	35	60	535	470	18	13	-	-	100	16	150	63	6314C3/NU314	631 2ZZ	260	17.5	200M%
402	55	110	10	6	16	1	-	-	=	-	=	-	-	-	-	-	-	-	-	-	6312	6308ZZ	315		225SH
432	75	140	12	7.5	20	1	200	-	35	71	770	476	20	225	71	190	180	16	265	63	6316C3/NU316	631 3ZZ	325	38	2255%
41 4.5	55	110	10	6	16	1	-	-	-	-	5	-	-	-	-	-	-	-	-	-	6312	6308ZZ	350	-	225MH
444.5	75	140	12	7.5	20	1	200	-	35	71	770	501	20	225	71	190	180	16	265	63	631 6C3/NU31 6	631 3ZZ	360	38	225M%
433.5	55	110	10	6	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6312	6312	470	-	250SH
493.5	85	170	14	9	22	1	315	-	- 30	85	900	521	19	250	80	210	180	16	265	63	6318C3/NU318	631 5ZZ	485	65	2505%
452.5	55	110	10	6	16	1	-	-	-	-	-	-		-	-	-	-	-	=	-	6312	6312	515	-	250MH
51 2.5	85	170	14	9	22	1	315	-	30	85	900	559	19	250	80	210	180	16	265	63	631 8C3/NU31 8	631 5ZZ	530	65	250M%
484	55	110	10	6	16	1	-	-	-		-	-	=	-	-	-	-	-	-	-	6312	6312	620	-	280SH
544	95	170	14	9	25	1	315	-	30	85	900	578	19	250	80	210	200	16	265	63	6320C3/NU320	6317	640	65	2805%
509.5	55	110	10	6	16	1	-	-		-	-	-	-	-		-	-	-	-	-	6312	6312	710	-	280MH
569.5	95	170	14	9	25	1	315	-	30	85	900	629	19	250	80	210	200	16	265	63	6320C3/NU320	6317	730	65	280M%

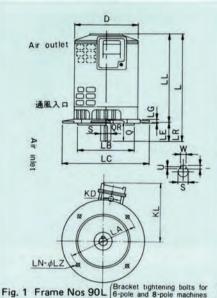
- 4. In case of V-belts, after reference the table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and installation.
- Bearing Nos. in the parenthesis show the one for 2-pole motors.
 In frame Nos. 80 to 100L, sizes D and H in brackets are those of 6 and 8-pole motors.
 Size may be changed. Please inquire sizes, when used for design.
- 8. In frame No. 180M, size B in bracket is 2-pole motor. 9. 2.2kW-8-pole in marked symbol* is class E insulation.

Vertical Protected Type (Type VE90)

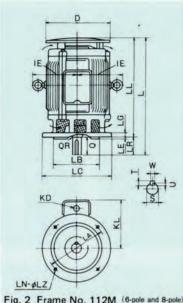
Vertical Protected Drip-Proof Type (Type VED85)

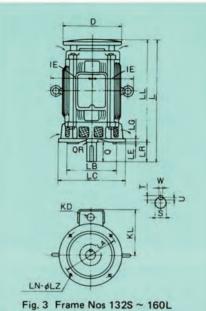
Protected Drip-Proof Flange-Mounted Type (Type HED85)

Protection	90L~100L, 112M (2,4-pole)	IP20
type	112M (6,8-pole), 132S~250M	IP22
Cooling typ	е	IC01







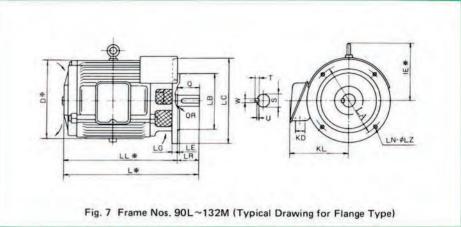


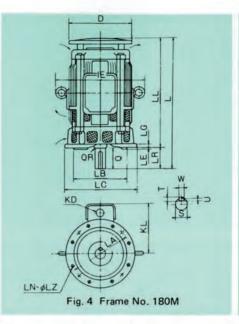
Flange No.	Frame No.		Outpu	it (kW)		Class	Fig.							M	otor						
Flange No.	Frame No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	D	LL	LL	IE	LA	LB	LC	LE	LG	LZ	LN	LR	KD	KL
FF165	90L	1.5	1.5	0.75	0.4	E	1	161	305.5	255.5	-	165	130	200	3.5	12	12	4	50	22	149
	100L	-	2.2	1.5	0.75	E	1	182	341	281	-	215	180	250	4	16	15	4	60	22	158
FF215	112M	3.7	3.7	-	-	E	1	202	363.5	303.5	150	215	180	250	4	16	15	4	60	22	16
	112M	-	-	2.2	1.5	E	2	240	421	361	155	215	180	250	4	16	15	4	60	22	17
FF265	1325	5.5 7.5	5.5	3.7	*2.2	В	3	270	485	405	180	265	230	300	4	20	15	4	80	34	21
FF200	132M	-	7.5	5.5	3.7	В	3	270	523	443	180	265	230	300	4	20	15	4	80	34	21
FF300	160M	11 15	11	7.5	5.5	В	3	310	613	503	209	300	250	350	5	20	19	4	110	34	23
FF300	160L	-	15	11	7.5	В	3	310	657	547	209	300	250	350	5	20	19	4	110	34	23
	160L	18.5	-	-	-	В	3	310	657	547	209	350	300	400	5	20	19	4	110	34	23
FF350	160∟	22	18.5	-	-	В	3	310	657	547	209	350	300	400	5	20	19	4	110	34	23
	180M	30	22 30	15 18.5	11 15	В	4	362	671	561	247	350	300	400	5	20	19	4	110	49	32
FF400	180LH	37 45	-	-	-	F	5	378	700.5	590.5	247	400	250	450	5	22	19	8	110	00	00
FF400	180L	1	37 45	22 30	18.5 22		5	3/6	730.5	590.5	241	400	350	450	5	22	19	0	140	62	32
	200MH	55	-	-	-	F	5	418	718.5	608.5	265	500	450	550	5	22	19	8	110	00	
	200M%	-	55	37 45	30		5	418	748.5	608.5	265	500	450	550	5	22	19	8	140	62	34
FF500	225SH	75	-	-	-	F	5	473	795	cor	200	500	450	550	-	00	40		110		07
FF300	2255%	-	75	55	37	-	5	4/3	825	685	303	500	450	550	5	22	19	8	140	62	37
	225MH	90	-	-	-	-	5	473	820	COO 5	303	500	450	550		00			110	00	07
	225M%	-	90	75	45		9	4/3	850	693.5	303	300	450	330	5	22	19	8	140	62	37
	250SH	110	-	1	-	F	6	525	908.5	798.5	31.5	600	550	660	6	25	24	8	110	120 7100	46
FF600	2505%	-	110	90	55		0	525	968.5	790.5	313	000	330	000	0	25	24	٥	170	120×160	40
1 1 000	250MH	132	-	=	-	F	6	525	948.5	838.5	315	600	550	660		25	24	8	110		40
	250M%	-	132	110	75	100	0	323	1008.5		313	000	330	660	6	25	24	0	170	120×160	46

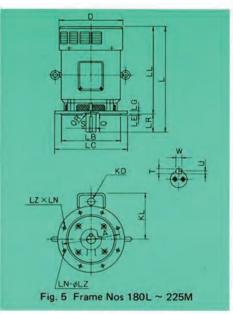
< Notes > 1. Tolerance for size S is j6 for \$\phi 28\$ or less, k6 for \$\phi 38\$ to \$\phi 48\$ and m6 for \$\phi 55\$ or over, according to JIS B 0401 (Limits and fits for engi-

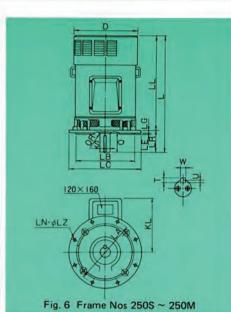
- 2. Tolerance for size LB is j6 for ϕ 450 or less and js6 for ϕ 550 or over, according to JIS B 0401.
- 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling sides.











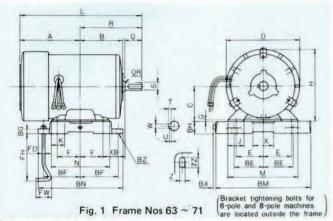
Flang	Frame		/pe	Flange ty		Approx.	No.	Bearing	*		aft	Sh		
No.	No.	IE#	LL#	L#	D*	mass (kg)	Opposite coupling side	Coupling side	QR	W	U	Т	Q	S
FF16	90∟	-	255.5	305.5	161	19.5	6205ZZ	6205ZZ	0.3	8	4	7	50	24
	100L	-	281	341	182	27	6205ZZ	6206ZZ	0.3	8	4	7	60	28
FF21	112M	150	303.5	363.5	202	40	6206ZZ	6306ZZ	0.5	8	4	7	60	28
	112M	155	321	381	225	45	6206ZZ	6306ZZ	0.5	8	4	7	60	28
==00	1325	180	361	441	253.5	62	6207ZZ	6308ZZ	0.5	10	5	8	80	38
FF26	132M	180	399	479	253.5	76	6207ZZ	6308ZZ	0.5	10	5	8	80	38
	160M	209	460	570	298.5	106	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF30	160ML	209	504	614	298.5	127	6308ZZ	6309ZZ	0.5	12	5	8	110	42
	160ML	209	504	614	298.5	135	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF35	160ML	209	504	614	298.5	137	6308ZZ	631 0ZZ	0.5	14	5.5	9	110	48
	180M	247	518	628	341	200	(6308ZZ) 631 0ZZ	(6312) 6312ZZ	1	16	6	10	110	55
====	180LH			700.5		200	6308ZZ	6312	1	16	6	10	110	55
FF40	180∟	247	590.5	730.5	378	205	6311ZZ	631 3ZZ	0.5	18	7	11	140	60
	200MH		2005	718.5		240	6308ZZ	6312	1	16	6	10	110	55
	200M%	265	608.5	748.5	418	250	631 2ZZ	631 4C3/NU31 4	1	18	7	11	140	65
	225SH			778.5		305	6308ZZ	6312	1	16	6	10	110	55
FF50	225S%	303	668.5	808.5	473	31.5	631 3ZZ	6316C3/NU316	1	20	7.5	12	140	75
	225MH		000.5	803.5		340	6308ZZ	6312	1	16	6	10	110	55
	225M%	303	693.5	833.5	473	350	631 3ZZ	631 6C3/NU31 6	1	20	7.5	12	140	75
	250SH	-	700.5	908.5		460	6312	6312	1	16	6	10	110	55
Name of Street	2505%	315	798.5	968.5	525	475	631 5ZZ	631 8C3/NU31 8	1	22	9	14	170	85
FF60	250MH		000.5	948.5		505	6312	6312	1	16	6	10	110	55
	250M%	315	838.5	1008.5	525	520	631 5ZZ	631 8C3/NU31 8	1	22	9	14	170	85

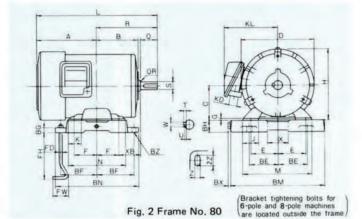
- 4. In case of V-belts, after reference the table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and installation.
- 5. Bearing Nos. in the parenthesis show the one for 2-pole motors.6. Sizes of flange-mounted type are the same as those values of vertical type shown in the above table other than those marked symbol*.
- 7. In frame Nos. 80 to 100L, sizes D and H in brackets are those of 6 and 8-pole motors.
- 8. Size may be changed. Please inquire sizes, when used for design.

Totally-Enclosed Frame Surface Cooled Type (Type TIS85)

Protection	63 ~ 71	Body IP44
type	80 ~ 315M	IP44
Cool	ing type	IC0141







Frame		Output	(kW)		Class	Fig									Mo	tor								
No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	Z	ХВ	KD	KL
63	0.2	0.2	2	-	E	1	108	76	63	129	50	40	2.5	128	-	25	20	211	125	100	7×14	40	-	1
71	0.4	0.4	0.2	-	E	1	120	86	71	145	56	45	3	144	-	27	22	240	140	112	7×14	45	2	L
80	0.75	0.75	0.4	0.2	E	2	140	96	80	167	62.5	50	3	163.5	-	34	28	280	160	128	10×20	50	22	139
90L	1.5	1.5	0.75	0.4	E	3	160.5	114	90	194	70	62.5	10	187	-	35	-	329	170	155	10	56	22	152
100L	-	2.2	1.5	0.75	E	3	180	128.5	100	220	80	70	12	210	243.5	40	-	373	196	176	12	63	22	160
112M	3.7	3.7	2.2	1.5	E	3	189	135.5	112	240	95	70	14	233	266.5	45	-	389	226	176	12	70	22	172
1325	5.5 7.5	5.5	3.7	*2.2	В	4	217	153	132	276	108	70	16	270	311.5	50	-	456	252	176	12	89	34	215
132M	-	7.5	5.5	3.7	В	4	236	172	132	276	108	89	16	270	311.5	50	-	494	252	214	12	89	34	215
160M	11 15	11	7.5	5.5	В	4	270	207	160	320	127	105	20	318	369	60	61	593	315	262	15	108	34	240
160L	18.5	15	11	7.5	В	4	292	229	160	320	127	127	20	318	369	60	63	637	315	306	15	108	34	240
180M	22	18.5 22	15	11	В	4	311	(237.5) 236	180	366	1 39.5	1 20.5	22	367	427	70	64.5	662.5	350	294	15	121	49	320
180L	30	30	18.5 22	15	F	5	330	(257.5) 255	180	366	139.5	139.5	22	367	427	70	68.5	700.5	350	332	15	121	49	320
200LH	37 45	-	-	-	F	5	361	281	200	409	159	152.5	25	405	465	80	81	756.5	400	372	19	133	62	344
200∟	-	37 45	30 37	18.5		3	301	280	200	409	133	132.3	25	405	405	80	01	786.5	400	SIZ	13	100	OZ.	044
225SH	55	-	-	-	F	5	376.5	286	225	462	178	143	28	457	528	80	85	778.5	440	355	19	149	62	374
2255%	-	55	45	30		,	570.5	286.5	220	402	170	145	20	451	520	00	00	808.5	440	000	, ,	1 40	0.	0,4
250SH	75	-	-	-	F	6	481	317	250	530	203	1 55.5	32	740	_	90	100	914.5	500	385	24	168	62	-
2505%	-	75	55	37			401	317.5	250	550	200	1 33.3	02	140		30	100	944.5	500	500		100	02	
250MH	90	=	-	-	F	6	500	336	250	530	203	174.5	32	740		90	100	952.5	500	425	24	168	62	_
250M%	-	90	75	45		Ü	000	336.5	200	550	200	114.5	OZ.	140				982.5					-	
280SH	110	-	-	-	F	6	510	363	280	590	228.5	184	32	805	_	100	110	994	560	450	24	190	77	-
2805%	-	110	90	55		_	510	366	200	330	220.5	104	32	000		100		1054	000	400		100	-	
280MH	132	-	-	-	F	6	534.5	388.5	280	590	228 5	209.5	32	805	_	100	110	1044	560	500	24	190	77	
280M%	-	132	110	75		ŭ	004.0	391.5	200	550	220.5	203.0	JZ.	000		100		1104	000	500		100		
315SH	160	-	-	-	F	6	590	408	315	635	254	203	36	880	-	110	125	1119	630	500	28	216	77	-
3155%	-	160	132	90			500	410	3,3	000	204	200	30	500				1179	555	000	-	-		
315MH	200	-	-	-	F	6	61 4.5	436.5	315	635	254	228.5	36	880	-	110	125	1169	630	550	28	216	77	-
315M%	-	200	160	110	P		014.0	435.5	3.0	555								1229	000	-				

- <Notes> 1. Tolerance for size S is h6 for \$\phi11\$, j6 for \$\phi14\$ to \$\phi28\$, k6 for \$\phi38\$ to \$\phi48\$ and m6 for \$\phi55\$ or over, according to JIS B 0401 (Limits and fits for engineering).
 - 2. Tolerance for size C is 0 to -0.5 for 250 or less and 0 to -1.0 in case of exceeding 250.
 - 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling sides.

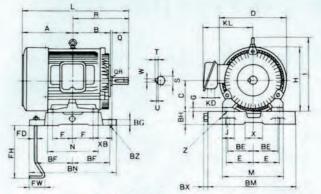
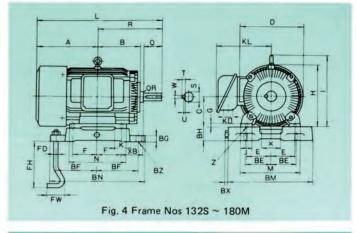
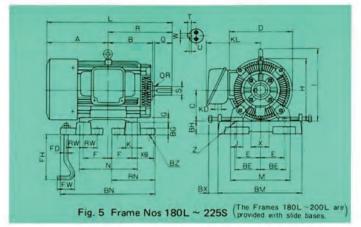
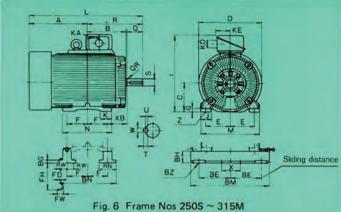


Fig. 3 Frame Nos 90L ~ 112M







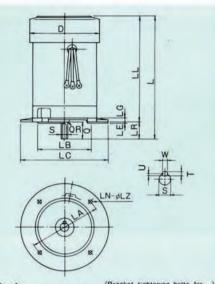
			Sha	ft							Slide	base	(rail)						oundatio	on	Bearin	g No.	Appro mass	(kg)	Frame
R	S	Q	T	U	W	QR	BE	BF	BG	вн	вм	BN	BZ	вх	RW	RN	X	FD	FH	FW	Coupling side	Opposite coupling side	Motor	Base	No.
103	11	23	-	1	-	0.3	50	80	17	30	188	185	13	9	-	-	40	10	95	40	6201 ZZ	6201 ZZ	7.0	1.5	63
120	14	30	5	3	5	0.3	55	85	15	30	194	200	13	9	-	-	40	10	95	40	6202ZZ	6202ZZ	9.0	1.8	71
140	19	40	5	3.5	6	0.3	65	90	15	30	214	210	13	9	=	-	40	10	95	40	6204ZZ	6204ZZ	12.0	2.0	80
168.5	24	50	7	4	8	0.3	70	105	15	30	230	240	13	9	-	-	40	10	95	40	6205ZZ	6205ZZ	23.5	2.2	90L
193	28	60	7	4	8	0.5	80	115	20	40	270	260	13	9	=	-	50	10	90	40	6206ZZ	6205ZZ	32	3.0	100L
200	28	60	7	4	8	0.5	95	115	20	40	290	260	13	9	=	-	50	10	90	40	6206ZZ	6206ZZ	45	3.5	112M
239	38	80	8	5	10	0.5	110	120	25	45	355	280	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	62	5.0	1325
258	38	80	8	5	10	0.5	110	140	25	45	360	318	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	72	6.0	132M
323	42	110	8	5	12	0.5	125	165	30	50	406	380	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	100	8.5	160M
345	42	110	8	5	12	0.5	125	185	30	50	406	420	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	115	10.0	160L
351.5	48	110	9	5.5	14	1	140	185	35	55	456	420	16	11.5	-	-	80	12	115	50	(6311) 6311ZZ	(6308ZZ) 631 0ZZ	165	12.0	180M
370.5	55	110	10	6	16	(1) 0.5	140	205	35	55	456	460	16	11.5	-	=	80	12	115	50	(631 2C3) 631 2ZZC3	(6308ZZ) 631 0ZZ	190	14	180∟
395.5	55	110	10	6	16	1	-	=	-	1	1	1	-	1	-	-	-	-	-	-	631 2C3	6308ZZ	265	-	200LH
425.5	60	140	11	7	18	0.5	160	230	35	60	535	520	18	13	1	-	100	16	150	63	631 3ZZC3	6311ZZ	275	18	200∟
402	55	110	10	6	16	1	-	=	=	1	-	1	=	-	-	-	-	-	-	-	631 2C3	6308ZZ	315	-	225SH
432	65	140	11	7	18	1	200	-	35	71	770	476	20	225	71	190	180	16	265	63	631 4C3/NU31 4	631 2ZZ	325	38	2255%
433.5	55	110	10	6	16	1	-	-	-	1		1	-	1	-	-	13	1	-	-	631 2C3	631 2C3	470	-	250SH
463.5	75	140	12	7.5	20	1	315	-	30	85	900	521	19	250	80	210	180	16	265	63	631 6C3/NU31 6	631 3ZZ	490	65	2505%
452.5	55	110	10	6	16	1	-	-	-	1	-	4	-	1	1	-	-	1	ī	-	631 2C3	631 2C3	520	-	250MH
482.5	75	140	12	7.5	20	1	315	-	30	85	900	559	19	250	80	210	180	16	265	63	631 6C3/NU31 6	631 3ZZ	540	65	250M%
484	55	110	10	6	16	1	-	-	-	1	-	1	=	i		+	-	=	+	-	631 2C3	631 2C3	650	-	280SH
544	85	170	14	9	22	1	315	-	30	85	900	578	19	250	80	210	200	16	265	63	631 8C3/NU31 8	631 5ZZ	670	65	2805%
509.5	55	110	10	6	16	1	-	-		-	=	-	-	-	=	1	-	=	-	-	631 2C3	631 2C3	750	-	280MH
569.5	85	170	14	9	22	1	315	=	30	85	900	629	19	250	80	210	200	16	265	63	631 8C3/NU31 8	631 5ZZ	770	65	280M%
529	55	110	10	6	16	1	-	-	-	-	-	=	=	-	-	-	-	-	=	-	631 2C3	631 2C3	880	-	315SH
589	95	170	14	9	25	1	375	-	35	100	1120	656	24	280	95	250	200	20	445	88	6320C3/NU320	6317	900	105	315S%
554.5	55	110	10	6	16	1	-	-	-	-	-	-	=	-		-	-	-	-	-	631 2C3	631 2C3	950	-	315MH
61 4.5	95	170	14	9	25	1	375	-	35	100	1120	707	24	280	95	250	200	20	445	88	6320C3/NU320	6317	975	105	315M%

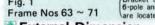
- 4. In case of V-belts, after reference table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and instal-
- 5. Bearing Nos. in the parenthesis show the one for 2-pole motors.
- Size may be changed. Please inquire sizes, when used for design.
 In frame Nos. 180M and 180L, size B in bracket is 2-pole motor.
- 8. 2.2kW-8-pole in marked symbol* is class E insulation.

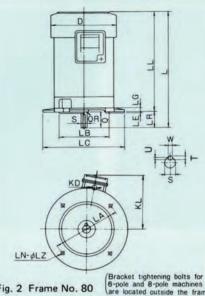
Vertical Totally-Enclosed Frame Surface Cooled Type (Type VTIS85)

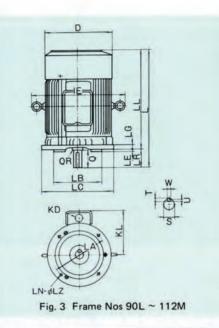
Totally-Enclosed Frame Surface Cooled Flange-Mounted Type (Type HTIS85)

Protection	63 ~ 71	Body IP44
type	80 ~ 315M	IP44
Cool	ing type	IC0141





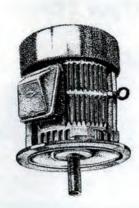


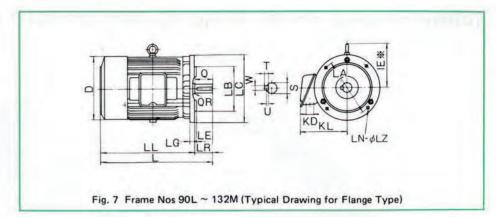


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Flange	Frame		Outpu	ut (kW)		Class	Fig-							Mo	otor						
No.	No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	D	L	LL	IE	LA	LB	LC	LE	LG	LZ	LN	LR	KD	KL
==100	63	0.2	0.2	-	-	E	1	129	229	206	-	130	110	160	3.5	10	10	4	23	-	-
FF130	71	0.4	0.4	0.2	-	E	1	145	260.5	230.5	-	130	110	160	3.5	10	10	4	30	-	-
FF165	80	0.75	0.75	0.4	0.2	E	2	167	298	258	-	165	130	200	3.5	12	12	4	40	22	142
FF103	90L	1.5	1.5	0.75	0.4	E	3	194	342	292	1	165	130	200	3.5	12	12	4	50	22	152
FF215	100L	-	2.2	1.5	0.75	E	3	220	373	313	144	215	180	250	4	16	15	4	60	22	160
FF213	112M	3.7	3.7	2.2	1.5	E	3	240	402	342	155	215	180	250	4	16	15	4	60	22	172
FF265	1325	5.5 7.5	5.5	3.7	*2.2	В	4	276	456	376	180	265	230	300	4	20	15	4	80	34	215
FF 200	132M	-	7.5	5.5	3.7	В	4	276	494	414	180	265	230	300	4	20	15	4	80	34	215
FF300	160M	11	11	7.5	5.5	В	4	320	633	523	209	300	250	350	5	20	19	4	110	34	240
FF300	160L	18.5	15	11	7.5	В	4	320	677	567	209	300	250	350	5	20	19	4	110	34	240
FF350	180M	22	18.5	15	11	В	4	366	702.5	592.5	247	350	300	400	5	20	19	4	110	49	320
FF350	180∟	30	30	18.5 22	15	F	5	366	740.5	630.5	247	350	300	400	5	20	19	4	110	49	320
FF400	200LH	37 45	-	1	-	F	5	409	756.5	646.5	265	400	350	450	5	22	19	8	110	62	344
FF400	200L	1	37 45	30 37	18.5 22		5	409	786.5	040.5	205	400	330	450	,		10	J	140	OL.	-
	225SH	55	-	-	-	F	5	462	778.5	668.5	303	500	.450	550	5	22	19	8	110	62	374
	225S%	1	55	45	30		9	402	808.5	000.5	303	300	.450	550	-		10	-	140	02	0,
FF500	250SH	75	-	-	-	F	6	530	914.5	804.5	365	500	450	550	5	22	19	8	110	62	490
FF 300	2505%	-	75	55	37		ľ	330	944.5	004.5	505	500	400	000	Ĭ.				140	-	
	250MH	90	-	-	-	F	6	530	952.5	842.5	365	500	450	550	5	22	19	8	110	62	490
	250M%	-	90	75	45		۰	550	982.5	042.0	505	500	450	550	3	22	10	_	140	-	-100
	280SH	110	-	-	-	F	6	590	994	884	420	600	550	660	6	25	24	8	110	77	525
FF600	2805%	-	110	90	55			550	1054	304	420	000	550	000		20	100		170		02.
FF000	280MH	132	-	-	-	F	6	590	1044	934	420	600	550	660	6	25	24	8	110	77	52
	280M%	-	132	110	75		l	030	1104	304	420	000	330	000		20			170		02

- <Notes> 1. Tolerance for size S is h6 for φ11, j6 for φ14 to φ28, k6 for φ38 to φ48 and m6 for φ55 or over, according to JIS B 0401 (Limits and
 - 2. Tolerance for size LB is j6 for ϕ 450 or less and js6 for ϕ 550 or over, according to JIS B 0401.
 - 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling sides.





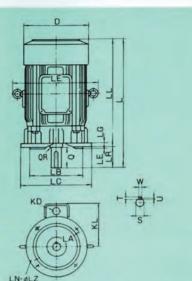
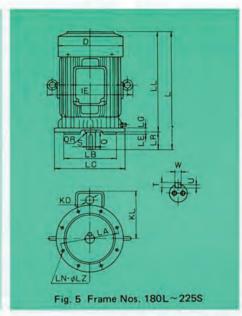
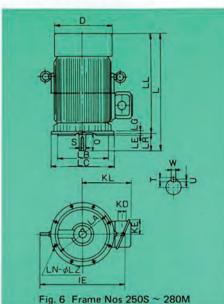


Fig. 4 Frame Nos 132S ~ 180M





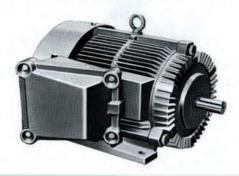
Flange	F N	Flange type	Approx-	No.	Bearing			haft	S		
No.	Frame No.	1E*	mass (kg)	Opposite coupling side	Coupling side	QR	W	U	Т	Q	S
FF19/	63	-	14	6201 ZZ	6201 ZZ	0.3	-	1	+	23	11
FF130	71	-	17	6202ZZ	6202ZZ	0.3	5	3	5	30	14
FF165	80	-	22	6204ZZ	6204ZZ	0.3	6	3.5	6	40	19
FF10.	90∟	-	30	6205ZZ	6205ZZ	0.3	8	4	7	50	24
FF21:	100L	144	40	6205ZZ	6206ZZ	0.5	8	4	7	60	28
FFZI	112M	155	50	6206ZZ	6306ZZ	0.5	8	4	7	60	28
FF26	1325	180	76	6207ZZ	6308ZZ	0.5	10	5	8	80	38
FF20	132M	180	87	6207ZZ	6308ZZ	0.5	10	5	8	80	38
FF30	160M	209	125	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF30	160L	209	140	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF35	180M	247	205	(6308ZZ) 631 0ZZ	(6311) 6311ZZ	1	14	5.5	9	110	48
FF35	180L	247	230	(6308ZZ) 631 0ZZ	(631 2C3) 631 2ZZC3	(1) 0.5	16	6	10	110	55
FF40	200LH	265	290	6308ZZ	631 2C3	1	16	6	10	110	55
FF40	200∟	265	300	6311ZZ	631 3ZZC3	0.5	18	7	11	140	60
	225SH	303	380	6308ZZ	631 2C3	1	16	6	10	110	55
	2255%	303	390	631 2ZZ	631 4C3/NU31 4	1	18	7	11.	140	65
FF50	250SH	1	520	631 2C3	631 2C3	1	16	6	10	110	55
FF30	2505%	-	550	631 3ZZ	631 6C3/NU31 6	1	20	7.5	12	140	75
	250MH	-	590	631 2C3	631 2C3	1	16	6	10	110	55
	250M%	-	610	631 3ZZ	631 6C3/NU31 6	1	20	7.5	12	140	75
	280SH	-	720	631 2C3	631 2C3	1	16	6	10	110	55
FF60	2805%	-	740	631 5ZZ	631 8C3/NU31 8	1	22	9	14	170	85
F F 00	280MH	-	810	631 2C3	631 2C3	1	16	6	10	110	55
	280M%	-	830	631 5ZZ	631 8C3/NU31 8	1-	22	9	14	170	85

- 4. In case of V-belts, after reference table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and instal-
- 5. Bearing Nos. in the parenthesis show the one for 2-pole motors.
- 6. Size may be changed. Please inquire sizes, when used for design. 7. In frame Nos. 180M and 180L, size B in bracket is 2-pole motor.
- 8. 2.2kW-8-pole in marked symbol* is class E insulation.

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Totally-Enclosed Frame Surface Cooled Outdoor Type (Type TISP85)

Protection type	IPW44	
Cooling type	IC0141	



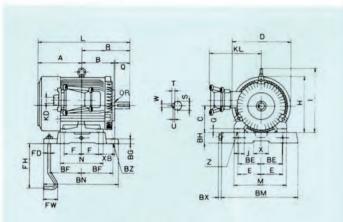


Fig. 1 Frame Nos 63 ~ 112M

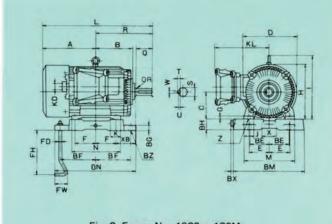
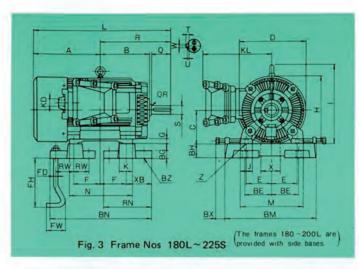


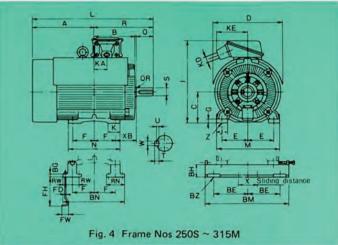
Fig. 2 Frame Nos 132S ~ 180M

Frame		Output	(kW)		Class	Fig									Motor									
No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	A	В	С	D	E	F	G	н	1	J	K	L	М	N	Z	ХВ	KD	KL
63	0.2	0.2	-	-	E	1	107	78.5	63	141	50	40	7	133.5	-	26	-	210	124	101	7	40	PF¾	178
71	0.4	0.4	0.2	-	E	1	121	88.5	71	157	56	45	8	149.5	-	28	-	241	136	111	7	45	PF¾	185
80	0.75	0.75	0.4	0.2	E	1	136	98.5	80	178	62.5	50	9	169	-	33	-	276	155	130	10	50	PF¾	192
90∟	1.5	1.5	0.75	0.4	E	1	160.5	117	90	194	70	62.5	10	187	-	35	-	329	170	155	10	56	PF¾	202
100L	-	2.2	1.5	0.75	E	1	180	131.5	100	220	80	70	12	210	243.5	40	-	373	196	176	12	63	PF¾	218
112M	3.7	3.7	2.2	1.5	E	1	189	138.5	112	240	95	70	14	233	266.5	45	-	389	226	176	12	70	PF¾	230
1325	5.5 7.5	5.5	3.7	*2.2	В	2	217	157	132	276	108	70	16	270	311.5	50	-	456	252	176	12	89	PF1 1/4	274
132M	-	7.5	5.5	3.7	В	2	236	176	132	276	108	89	16	270	311.5	50	-	494	252	214	12	89	PF1 1/4	274
160M	11 15	11	7.5	5.5	В	2	270	211	160	320	127	1.05	20	318	369	60	61	593	315	262	15	108	PF1 1/4	300
160∟	18.5	15	11	7.5	В	2	292	233	160	320	127	127	20	318	369	60	63	637	315	306	15	108	PF1 1/4	300
180M	22	18.5	15	11	В	2	311	(237.5) 236	180	366	139.5	120.5	22	367	427	70	64.5	662.5	350	294	15	121	PF2	375
180L	30	30	18.5	15	F	3	330	255 (257.5)	180	366	139.5	139.5	22	367	427	70	68.5	700.5	350	332	15	121	PF2	375
200LH	37 45	-	-	-	_			281		45.00					722		2.2	756.5				100		
200L	-	37 45	37 37	18.5	F	3	361	280	200	409	159	152.5	25	405	465	80	81	786.5	400	372	19	133	PF2	400
225SH	55	= 1	-	-	_			286										778.5						
2255%		55	45	30	F	3	376.5	286.5	225	462	178	143	28	457	528	80	85	808.5	440	355	19	149	PF2	430
250SH	75	=	-	-			101	317		200				100		-		914.5						
2505%	-	75	55	37	F	4	481	317.5	250	530	203	155.5	32	755	7	90	100	944.5	500	385	24	168	PF21/2	-
250MH	90	-	-	-			Luc 1	336			030	.37.		20		-		952.5						
250M%	-	90	75	45	F	4	500	336.5	250	530	203	174.5	32	755	-	90	100	982.5	500	425	24	168	PF21/2	
280SH	110	=	-	-				363								1,20	100	994						
2805%	-	110	90	55	F	4	510	366	280	590	228.5	184	32	820	-	100	110	1054	560	450	24	190	PF2½	
280MH	132	-	-	-	1		-01-	388.5	-									1044						
280M%	-	132	110	75	F	4	534.5	391.5	280	590	228.5	209.5	32	820	-	100	110	1104	560	500	24	190	PF21/2	
315SH	160	-	-	-			Lau	408	No.									1119			H			
3155%	-	160	132	90	F	4	590	410	315	670	254	203	36	895	Ē	110	125	1179	630	500	28	216	PF2½	
315MH	200	-	-	-		V. 1	21.45	436.5	04.5	076	054	000.5	00	205				1169						
315M%	-	200	160	110	F	4	614.5	435.5	315	670	254	228.5	36	895	-	110	125	1229	630	550	28	216	PF21/2	=

- <Notes> 1. Tolerance for size S is h6 for \$\phi\$11, j6 for \$\phi\$14 to \$\phi\$28, k6 for \$\phi\$38 to \$\phi\$48 and m6 for \$\phi\$55 or over, according to JIS B 0401 (Limits and
 - 2. Tolerance for size C is 0 to -0.5 for 250 or less and 0 to -1.0 in case of exceeding 250.
 - 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling side.







		S	haft								Slid	e bas	e (rail)					F	oundatio	n	Bearing	No.	Appr		Frame
R	S	Q	Т	U	W	QR	BE	BF	BG	вн	вм	BN	BZ	вх	RW	RN	X	FD	FH	FW	Coupling side	Opposite coupling	Motor	Base	No.
103	11	23	-	1	-	0.3	50	80	17	30	188	185	13	9	-	-	40	10	95	40	6201 ZZ	6201 ZZ	14	1.5	63
120	14	30	5	3	5	0.3	55	85	15	30	194	200	13	9	-	-	40	10	95	40	6202ZZ	6202ZZ	17	1.8	71
140	19	40	6	3.5	6	0.3	65	90	15	30	214	210	13	9	-	-	40	10	95	40	6204ZZ	6204ZZ	21	2.0	80
168.5	24	50	7	4	8	0.3	70	105	15	30	230	240	13	9	-	-	40	10	95	40	6205ZZ	6205ZZ	29	2.2	90∟
193	28	60	7	4	8	0.5	80	115	20	40	270	260	13	9	-	-	50	10	90	40	6206ZZ	6205ZZ	38	3.0	100L
200	28	60	7	4	8	0.5	95	115	20	40	290	260	13	9	-	4	50	10	90	40	6306ZZ	6206ZZ	51	3.5	112M
239	38	80	8	5	10	0.5	110	120	25	45	355	280	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	72	5.0	1325
258	38	80	8	5	10	0.5	110	140	25	45	360	318	13	10.5	-	-	60	10	85	40	6308ZZ	6207ZZ	82	6.0	132M
323	42	110	8	5	12	0.5	125	165	30	50	406	380	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	110	8.5	160M
345	42	110	8	5	12	0.5	125	185	30	50	406	420	16	10.5	-	-	70	12	115	50	6309ZZ	6308ZZ	125	10.0	160L
351.5	48	110	9	5.5	14	1	140	185	35	55	456	420	16	11.5	-	-	80	12	115	50	(6311) 6311ZZ	(6308ZZ) 631 0ZZ	185	13.0	180M
370.5	55	110	10	6	16	(1) 0.5	140	205	35	55	456	460	16	11.5	-	-	80	12	115	50	(631 2C3) 631 2ZZC3	(6308ZZ) 631 0ZZ	210	14	180L
395.5	55	110	10	6	16	1	=	-	-	-	-	-	-	-	-	-	-	-	-	-	631 2C3	6308ZZ	290	-	200LH
425.5	60	140	11	7	18	0.5	160	230	35	60	535	520	18	13	-	-	100	16	150	63	631 3ZZC3	6311ZZ	300	18	200L
402	55	110	10	6	16	1	-	-	-	-	-	-	-	-	-	-	-	-		-	631 2C3	6308ZZ	350	1	225SH
432	65	140	11	7	18	1	200	-	35	71	770	476	20	225	71	190	180	16	265	63	631 4C3/NU31 4	631 2ZZ	360	36	2255%
433.5	55	110	10	6	16	1	-	-	-	-	-	-	-	-		-	-	-	-	-	631 2C3	631 2C3	550	1	250SH
463.5	75	140	12	7.5	20	1	315	-	30	85	900	521	19	250	80	210	180	16	265	63	631 6C3/NU31 6	631 3ZZ	570	65	2505%
452.5	55	110	10	6	16	1	-	-	-		-	-	=	-	-	-	-	-	-	-	631 2C3	631 2C3	610	I	250MH
482.5	75	140	12	7.5	20	1	315	-	30	85	900	559	19	250	80	210	180	16	265	63	631 6C3/NU31 6	631 3ZZ	630	65	250M9
484	55	110	10	6	16	1	-	-	-		-	-	-	-	-	-	-	-	_	-	631 2C3	631 2C3	740	1	280SH
544	85	170	14	9	22	1	315	-	30	85	900	578	19	250	80	210	200	16	265	63	631 8C3/NU31 8	631 5ZZ	760	65	2805%
509.5	55	110	10	6	16	1	-	-	-		-	-	-	-	-	-	-	-	-	-	631 2C3	631 2C3	830		280MH
569.5	85	170	14	9	22	1	315	-	30	85	900	629	19	250	80	210	200	16	265	63	631 8C3/NU31 8	631 5ZZ	850	65	280M9
529	55	110	10	6	16	1	-	-	=	1	-	-	-	-		1	-	-	-	-	631 2C3	631 2C3	960	1	315SH
589	95	170	14	9	25	1	375	=	35	100	1120	656	24	280	95	250	200	20	445	88	6320C3/NU320	6317	980	105	3155%
554.5	55	110	10	6	16	1	=	-	-		-	-	-	=	-	-	-	-	-	-	631 2C3	631 2C3	1030	-	315MH
61 4.5	95	170	14	9	25	1	375		35	100	1120	707	24	280	95	250	200	20	445	88	6320C3/NU320	6317	1060	105	315M9

- 4. In case of V-belts, after reference table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and installation.
- 5. Bearing Nos. in the parenthesis show the one for 2-pole motors.
- 6. Size may be changed. Please inquire sizes, when used for design.
 7. In frame Nos. 180M and 180L, size B in bracket is 2-pole motor.
- 8. 2.2kW-8-pole in marked symbol* is class E insulation.

Vertical Totally-Enclosed Frame Surface Cooled Outdoor Type (Type VTISP85)

Totally-Enclosed Frame Surface Cooled Flange-Mounted Outdoor Type (Type HTISP85)

Protection type	IPW44
Cooling type	IC0141

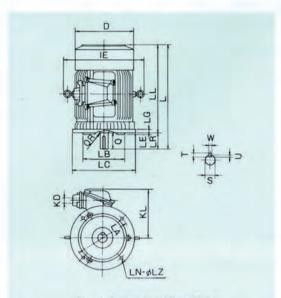
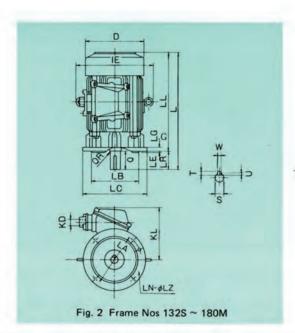
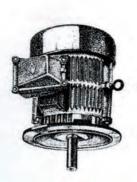


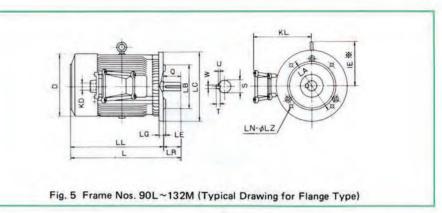
Fig. 1 Frame Nos 63 ~ 112M

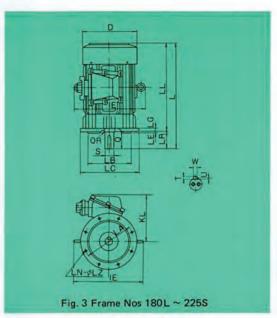


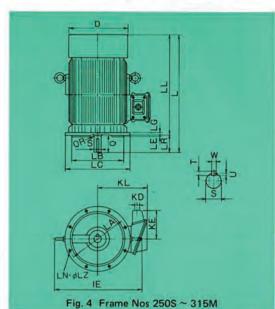
Flange	Farma Na		Outpu	ut (kW)	Class	Fig.							Mot	or						
No.	Frame No.	2-pole	4-pole	6-pole	8-pole	Insu- lation	No.	D	L	LL	IE	LA	LB	LC	LE	LG	LZ	LN	LR	KD	KL
	63	0.2	0.2	-	-	E	9	141	221	198	-	130	110	160	3.5	10	10	4	23	PF¾	178
FF130	71	0.4	0.4	0.2	-	E	1	157	251	221	-	130	110	160	3.5	10	10	4	30	PF¾	185
	80	0.75	0.75	0.4	0.2	E	1	178	285	245	-	165	130	200	3.5	12	12	4	40	PF¾	192
FF165	90L	1.5	1.5	0.75	0.4	E	1	194	342	292	-	165	130	200	3.5	12	12	4	50	PF¾	20
CC015	100L	-	2.2	1.5	075	E	1	220	373	313	144	215	180	250	4	16	15	4	60	PF¾	218
FF215	112M	3.7	3.7	2.2	1.5	E	1	240	402	342	310	215	180	250	4	16	15	4	60	PF¾	23
FF265	1325	5.5 7.5	5.5	3.7	*2.2	В	2	276	456	376	180	265	230	300	4	20	15	4	80	PF1¼	27
FF200	132M	-	7.5	5.5	3.7	В	2	276	494	414	180	265	230	300	4	20	15	4	80	PF11/4	27
FF300	160M	11 15	11	7.5	5.5	В	2	320	633	523	209	300	250	350	5	20	19	4	110	PF1¼	30
FF300	160L	18.5	15	11	7.5	В	2	320	677	567	209	300	250	350	5	20	19	4	110	PF11/4	30
FF350	180M	22	18.5 22	15	11	В	2	366	702.5	592.5	247	350	300	400	5	20	19	4	110	PH2	37
FF350	180L	30	30	18.5 22	15	F	3	366	740.5	630.5	247	350	300	400	5	20	19	4	110	PF2	37
FF400	200LH	37 45	-	-	-	F		100	756.5			400	050	450		00	40		110	PF2	
FF 400	200L	-	37 45	30 37	18.5 32		3	409	786.5	646.5	265	400	350	450	5	22	19	8	140	PF2	40
	225SH	55	12	-	-	F		400	778.5	000 5		500	450	550	-	00	40		110	PF2	
	225S%	-	55	45	30		3	462	808.5	668.5	303	500	450	550	5	22	19	8	140	PF2	43
FF500	250SH	75	-	-	-	F	4	500	914.5	0015	005	500	450	550		00	40	8	110	PF2½	
FF300	2505%	-	75	55	37		4	530	944.5	804.5	365	500	450	550	5	22	19	8	140	PF2/2	50
	250MH	90	-	-	-	F	4	530	952.5	2405	005	500	450	550				8	110	PF2½	
	250M%	-	90	75	45		4	530	982.5	842.5	365	500	450	550	5	22	19	8	140	PF2/2	50
	280SH	110		-	-	Toll	7	500	994	004	400	600	EEC	666		05	24	8	110	DEOL	
EE600	2805%	-	110	90	55	F	4	590	1054	884	420	600	550	660	6	25	24	0	170	PF2½	54
FF600	280MH	132	-	-	-			500	1044	004	400	000	550	000		25	24	8	110	DE01/	54
	280M%	-	132	110	75	F	4	590	1104	934	420	600	550	660	6	25	24	0	170	PF21/2	54

- <Notes> 1. Tolerance for size S is h6 for φ11, j6 for φ14 to φ28, k6 for φ38 to φ48 and m6 for φ55 or over, according to JIS B 0401 (Limits and fits for engineering).
 - 2. Tolerance for size LB is j6 for ϕ 450 or less and js6 for ϕ 550 or over, according to JIS B 0401.
 - 3. Frame No. C/B show direct coupling (C) and belt driving (B) and the two types have different kinds of bearings at coupling sides.









Flange	Frame No.	Flange type	Approx.	No.	Bearing N			aft	Sha		
No.	Frame IVO.	IE*	mass (kg)	Opposite coupling side	Coupling side	QR	W	U	T	Q	S
FF19/	63	-	8.0	6201 ZZ	6201 ZZ	0.3	-	1	-	23	11
FF130	71	-	10.5	6202ZZ	6202ZZ	0.3	5	3	5	30	14
FF165	80	-	14.0	6204ZZ	6204ZZ	0.3	6	3.5	6	40	19
FF103	90∟	-	26	6205ZZ	6205ZZ	0.3	8	4	7	50	24
EE016	100L	144	35	6205ZZ	6206ZZ	0.5	8	4	7	60	28
FF215	112M	155	50	6206ZZ	6306ZZ	0.5	8	4	7	60	28
	1325	180	68	6207ZZ	6308ZZ	0.5	10	5	8	80	38
FF265	132M	180	79	6207ZZ	6308ZZ	0.5	10	5	8	80	38
==00/	160M	209	115	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF300	160L	209	130	6308ZZ	6309ZZ	0.5	12	5	8	110	42
FF350	180M	247	185	(6308ZZ) 631 0ZZ	(6311) 6311ZZ	1	14	5.5	9	110	48
FF350	180L	247	210	(6308ZZ) 631 0ZZ	(631 2C3) 631 2ZZC3	(1) 0.5	16	6	10	110	55
==40/	200LH	265	270	6308ZZ	631 2C3	1	16	6	10	110	55
FF400	200∟	265	280	6311ZZ	631 3ZZC3	0.5	18	7	11	140	60
	225SH	303	310	6308ZZ	631 2C3	1	16	6	10	110	55
	2255%	303	320	631 2ZZ	631 4C3/NU31 4	1	18	7	11	140	65
	250SH	-	460	631 2C3	631 2C3	1	16	6	10	110	55
FF50	2505%	-	480	631 3ZZ	631 6C3/NU31 6	1	20	7.5	12	140	75
	250MH	=	510	631 2C3	631 2C3	1	16	6	10	110	55
	250M%	-	530	631 3ZZ	631 6C3/NU31 6	1	20	7.5	12	140	75
	280SH	_	640	631 2C3	631 2C3	1	16	6	10	110	55
	2805%	-	660	631 5ZZ	631 8C3/NU31 8	1	22	9	14	170	85
FF60	280MH	-	740	631 2C3	631 2C3	1	16	6	10	110	55
	280M%	-	760	6315ZZ	631 8C3/NU31 8	1	22	9	14	170	85

- In case of V-belts, after reference table of "Application of V-Belts and V-Pully" (P16), please be careful with selection and installation.
- 5. Bearing Nos. in the parenthesis show the one for 2-pole motors.
- 6. Sizes of flange-mounted type are the same as those values of vertical type shown in the above table other than those marked symbol*.
- 7. Size may be changed. Please inquire sizes, when used for design.
- 8. 2.2kW-8-pole in marked symbol* is class E insulation.

Rated Current and Rated Speed (reference values)

Outnut	Voltage			Prot	ected drip	p-proof ty	ре				То	tally-enclo	sed frame	e surface	cooled t	уре	
Output	Frequency	2-	oole	4-	pole	6-	pole	8-1	oole	2-	pole	4-	pole	6-6	oole	8-	pole
(kW)	(V-Hz)	AMP	min-1	AMP	min ⁻¹	AMP	min-1	AMP	min-1	AMP	min-1	AMP	min-1	AMP	min-1	AMP	min-
	200-50							1.8	670	1.0	2840	1.4	1390	1.4	920	1.8	670
0.2	200-60							1.6	800	0.9	3400	1.2	1670	1.2	1100	1.6	800
200	220-60		1				- 91	1.6	810	0.9	3440	1.2	1680	1.2	1120	1.6	810
	200-50					2.6	920	3.0	695	1.8	2880	2.2	1410	2.6	920	3.0	695
0.4	200-60					2.2	1100	2.6	835	1.7	3460	1.9	1690	2.2	1100	2.6	835
	220-60					2.3	1120	2.6	845	1.6	3480	1.9	1700	2.3	1120	2.6	845
	200-50	3.4	2900	3.6	1420	4.1	930	4.8	700	3.4	2900	3.7	1420	4.1	930	4.8	700
0.75	200-60	3.0	3470	3.4	1700	3.6	1120	4.2	840	3.0	3470	3.3	1700	3.6	1120	4.2	840
0.13	220-60	3.0	3490	3.2	1710	3.6	1130	4.2	850	3.0	3490	3.2	1710	3.6	1130	4.2	850
	200-50	6.0	2900	6.4	1420	7.2	930	8.0	705	6.0	2900	6.6	1420	7.2	930	8.0	705
1.5	200-60	5.8	3470	6.0	1700	6.5	1120	7.2	845	5.8	3470	6.0	1700	6.5	1120	7.2	845
1.5	220-60	700	3490	-			1130	7.0	855		3490		1710	6.2	1130	7.0	855
	200-50	5.4		5.6	1710	6.2				5.4		5.8		10		-	10000
2.2	200-60	8.4	2900	9.0	1420	10	930	11	705	8.4	2900	8.9	1420	100	930	11	705
2.2	The state of the s	8.2	3470	8.4	1710	9.2	1120	9.8	845	8.2	3470	8.5	1710	9.2	1120	9.8	845
	220-60	7.6	3490	8.0	1720	8.8	1130	9.4	855	7.6	3490	7.9	1720	8.8	1130	9.4	855
	200-50	13	2900	15	1420	16	950	18	710	13	2900	15	1420	16	950	18	710
3.7	200-60	13	3470	14.2	1710	15	1130	16	850	13	3470	14	1710	15	1130	16	850
	220-60	12	3490	13.2	1720	14	1140	16	860	12	3490	13	1720	14	1140	16	860
	200-50	20	2900	22	1450	24	950	26	720	20	2900	22	1450	24	950	26	720
5.5	200-60	20	3470	20	1730	22	1130	23	860	20	3470	21	1730	22	1130	23	860
	220-60	18	3490	19	1740	22	1140	23	870	18	3490	20	1740	22	1140	24	870
	200-50	28	2900	29	1450	32	960	34	720	28	2900	30	1450	32	960	36	720
7.5	200-60	26	3470	27	1730	30	1150	30	860	26	3470	28	1730	30	1150	32	860
	220-60	24	3490	25	1740	28	1160	30	870	24	3490	26	1740	28	1160	31	870
	200-50	40	2900	44	1450	44	960	51	725	40	2900	42	1450	46	960	48	725
11	200-60	38	3470	40	1730	42	1150	46	870	40	3470	40	1730	42	1150	46	870
	220-60	36	3500	38	1750	40	1160	44	875	36	3500	38	1750	40	1160	42	875
	200-50	54	2900	56	1450	62	970	71	725	52	2900	56	1450	62	970	64	720
15	200-60	52	3470	53	1730	58	1160	63	870	52	3470	54	1730	58	1160	60	865
	220-60	48	3500	50	1750	54	1170	62	875	48	3500	50	1750	54	1170	58	870
	200-50	68	2920	68	1450	75	970	83	720	64	2920	70	1450	76	960	80	720
18.5	200-60	64	3500	66	1740	70	1160	75	865	64	3500	68	1740	72	1150	76	865
	220-60	59	3520	60	1750	66	1170	72	870	58	3520	62	1750	66	1160	70	870
	200-50	77	2920	80	1460	88	960	96	720	76	2920	82	1450	90	960	96	720
22	200-60	75	3500	78	1750	84	1150	87	865	76	3500	80	1740	84	150	88	865
	220-60	69	3520	72	1760	78	1160	82	870	70	3520	74	1750	80	1160	84	870
1	200-50	108	2940	110	1460	120	960	130	720	104	2920	110	1450	120	960	136	725
30	200-60	106	3520	106	1750	114	1150	120	865	102	3500	108	1740	112	1150	124	870
	220-60	96	3540	98	1760	104	1160	112	870	94	3520	98	1750	106	1160	120	875
	200-50	130	2940	134	1460	146	960	150	720	126	2920	134	1460	146	960	158	725
37	200-60	130	3520	132	1750	140	1150	144	865	126	3500	132	1750	138	1150		
	220-60	118	3540	120	1760	130	1160	132	870	114	3520	120	1760	128	1160	138	875
100	400-50	80	2940	85	1460	90	970	95	720	76	2920	79	1460	87	970	101	725
45	440-60	72	3540	74	1760	78	1170	85	870	69	3520	71	1760	77	1170	87	875
10.4	400-50	95	2940	98	1460	108	970	114	720	93	2940	97	1460	116	970	117	730
55	440-60	85	3540	87	1760	95	1170	99	870	85	3530	87	1760	99	1170	102	880
	400-50	133	2940	133	1460	148	970	144	720	129	2940	135	1470	153	970	164	730
75	440-60	118	3540	118	1760	129	1170	126	870	116	3530	119	1770	132	1170	142	880
	400-50	150	2940	158	1460	167	970	171	720	150	2940	164	1470	178	970	187	730
90	440-60	139	3540	140	1760	148	1170	151	870	136	3530	144			1170	165	880
	400-50	192	2940						720	181	2940		1770	157			-
110				201	1470	216	970	214				195	1470	212	970	211	730
	440-60	170	3540	177	1765	189	1170	191	870	164	3540	172	1770	185	1170	188	880
132	400-50	225	2940	238	1470	252	970			222	2940	236	1470	250	970		
<u> </u>	440-60	198	3540	210	1765	222	1170			198	3540	207	1770	220	1170		-
160	400-50	269	2940	281	1470	285	970			264	2950	278	1470	308	970		
	440-60	240	3540	252	1765	255	1170			239	3540	247	1770	268	1170		
200	400-50	339	2950	347	1470					335	2950	348	1470				
	440-60	300	3540	313	1765					299	3540	308	1770				

Application of V-Belts and V-Pulley and Mounting of V-Pulleys

- The standard V-belts conform to JISK6323 (V Belts for Power Transmission), while narrow V-belts conform to JISK6368 (Narrow V-Belts for Power Transmission).
- Outputs of motors suitable for V-belt driving are as specified in Table 1, applicable according to the type of V-belt.
- Application of V-belts and V-pulleys for the respective motor outputs is as specified in Table 2.
- If the diameter of a V-pulley is smaller than the value specified in the Table or if the number of belts becomes unusually large, then the shaft may be broken due to excessive shaft loading or bearings may be damaged. If such usage is intended, please make inquiries to us.

Application of V-Belts and V-pulleys for Various Motor Outputs

Retec	motor	output	(kW)		4	Standard V-bel	lt			Narrow V-belt	
2-pole	4-pole	6-pole	8-pole	Type of V-belt	No. of V-belts	Nominal V-pulley diameter dp (mm)	V-pulley rim width PW (mm)	Type of V-belt	No. of V-belts	Nominal V-pulley diameter de (mm)	V-pulley rim width PW (mm
0.2	0.2	-	1	A	1	75	20	3V	1	71	17.4
0.4	0.4	-	1	Α	1	75	20	3V	1	71	17.4
0.75	0.75	0.4	-	A	1	80	20	3V	1	71	17.4
1.5	-	0.75	-	Α	2	80	35	3V	1	75	17.4
2.2		-	-	Α	2	90	35	3V	1	75	17.4
-	1.5	-	-	Α	2	90	35	3V	2	75	27.7
-	2.2	1.5	-	A	2	100	35	3V	2	75	27.7
3.7		-	-	Α	3	90	50	3V	2	75	27.7
-	-	2.2	-	A	3	100	50	3V	2	90	27.7
-	3.7	-	_	Α	3	112	50	3V	2	100	27.7
5.5	-	-	-	A	3	112	50	3V	3	75	38.0
7.5	-	-	_	A	3	132	50	3V	4	80	48.3
-	5.5	3.7	-	В	3	125	63	3V	3	100	38.0
-	7.5	-	-	В	3	150	63	3V	3	125	38.0
-	-	5.5	-	В	3	150	63	3V	3	140	38.0
-		7.5	_	В	4	150	82	3V	4	140	48.3
-	11	-	_	В	4	160	82	3V	4	125	48.3
-	-	11	-	В	5	170	101	3V	5	140	58.6
- 1	15	-	_	В	5	170	101	3V	6	125	68.9
	18.5	-	_	В	5	200	101	3V	6	140	68.9
- !	22	15	-	В	5	224	101	3V	6	160	68.9
-	-	18.5	_	С	4	224	110.5	5V	3	180	60.4
- 1	30	22	_	С	5	224	136	5V	4	180	77.5
-	_	30	_	С	5	265	136	5V	4	224	77.9
- 3	37	-	_	С	6	224	161.5	5V	4	200	77.9
	45	37	_	С	6	265	161.5	5V	4	224	77.9
-	-	_	30	С	6	265	161.5	5V	5	224	95.4
- 4	55	-	_	C	7	265	187	5V	5	224	95.4
-	_	45	-	С	7	280	187	5V	5	224	95.4
-	-	-	37	C	7	280	187	5V	5	250	95.4
-	-	-	45	C	7	315	187	5V	6	250	112.9
-	-	55	_	C	8	300	21 2.5	5V	6	250	112.9
- 1	75	-	_	C	8	315	21 2.5	5V	6	250	112.9
=	=	-	55	D	5	355	196	5V	6	280	112.9
- 9	90	-	_	_	_	_	-	5V	6	280	
_		75	_	D	6	355	233	5V	6		112.9
_	-	90	75	D	6	400	233			315	112.9
_	-	110	_	D	7	400		5V	6	355	112.9
_	_		90	_	-	400	270	8V	4	355	123.8
_	2	132	110	2	_			8V	4	355	123.8
	_	160	132					8V 8V	4	400 450	123.8

How to Stretch V-Belt:

If the tension of V-belt is too much, its life may be shortened due to fatigue or the belt will give rise to

overheating in bearings, breakage in the shaft, etc.

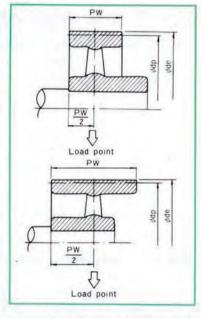
If the tension of V-belt is insufficient the belt may increase vibration and slippage and the life of V-belt will be shortened extremely. These cautions should be borne in mind when arranging the V-belt.

Type of V-Belt and Applicable Max. Output

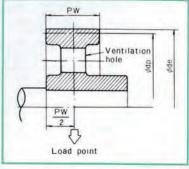
ium, output	11000
Standard V-belt	Narrow V-belt
7.5	7.5
75	90
110	160
75	132
	7.5 75 110

How to Mount V-Pulley

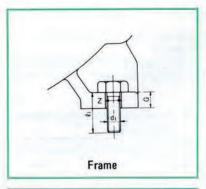
In order to minimize the load to be applied to the bearings and the stepped part of motor shaft, it is necessary to move the shaft's load (caused by V-belt tension) as nearer as possible to the motor side. Therefore the V-pulley should be mounted as illustrated below so that its rim end surface can be contained in the same plane for the stepped part of shaft.



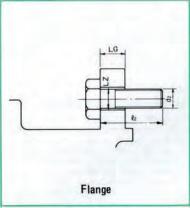
In order not to block ventilation cooling for the motor, the standard V-pulley is arranged into an arm shape as illustrated above. If the pulley is flat plate type as shown below, it should be provided with a big ventilation hole (the bigger the



Installation of Motor

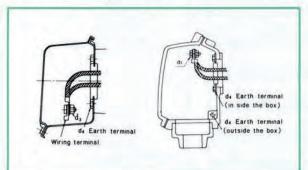


Fra	me No.	63	71	80	90	100	112	132	160	180	200	225	250	280	315
Z mou	nting hole	7	7	10	10	12	12	12	15	15	19	19	24	24	28
dı mou	unting bolt	M6	M6	M8	M8	M10	M10	M10	M12	M12	M16	M16	M20	M20	M20
of	G	+	=	3	4	4	14	16	20	22	25	28	36	36	-
Protected drip-proof type	11	-	-	16	20	25	30	35	40	40	50	50	75	75	-
drip type	ℓ ₁ мах.	-	-	25	30	35	35	45	60	60	70	70	85	85	-
ace	G	2.5	3	3	10	12	14	16	20	22	25	28	32	32	36
lly- sed e surface od type	11	12	12	16	25	30	30	35	40	40	50	50	70	70	85
Totally- enclosed frame su cooled ty	ℓ ₁ мах.	20	20	25	30	35	35	45	60	60	70	70	80	80	85



Fra	me No.	63	71	80	90	100	112	132	160	180	200	225	250	280	315
	LZ	-	-	-	12	15	15	15	19	19	19	19	24	-	-
p to	d ₂	-	-	-	M10	M12	M12	M12	M16	M16	M16	M16	M20	-	-
Protected drip-proof type	LG	-	-	=	12	16	16	20	20	20 22	22	22	25	=	-
Prot drip- type	1 2	-	_	-	30	35	35	40	45	45 50	50	50	65	-	-
	ℓ ₂ мах.	-	-	-	35	45	45	50	50	50 90	90	90	90	-	-
ъ	LZ	10	10	12	12	15	15	15	19	19	19	19	19	24	-
enclosed sun foce type	d ₂	M8	M8	M10	M10	M12	M12	M12	M16	M16	M16	M16	M16	M20	-
sun for	LG	10	10	12	12	16	16	20	20	20	22	22	22	25	-
Totally frame cooled	l 2	25	25	30	30	35	35	40	45	45	45	50	50	50	1
57.3	ℓ ₂ мах.	25	25	30	30	40	35	45	50	50	50	70	70	70	-

Terminal Connection



	Frame No. 6			63-112 132-160		180-225		250~315											
:100	Output (kW)		3.7 below	22 below	37 below	90 below	55	75	90	110	132	160	200						
drip-proof:	d ₃	200V Class	M5	M6	M6	M8	M12	M12		- M10	- M12	M1 2	— М1 2						
Protected type		400V Class	M5	M6	M6	M8	M8												
Prot	d ₄		M6	M8	М	10	M1 0												
rame	出力 (kW)		3.7 below	18.5 below	37 below	55 below	37	45	55	75	90	110	132	160	200				
osed f	,	200V Class	M5	M6	M6	M8	M8	M10	M12	M12	-	2-	-						
Fotally-enclosed frame surface cooled type	d ₃	400V Class	M5	M6	M6	M8	M8	M8	M8	M8	M10	M10	M12	M12	M12				
Fotal surfa	d ₄		M6	M8	М	10					M10								

Relubrication Interval and Amount of Grease

Bearing No.		20.009		Relubrication interval (Unit: 10°H)															
		Amount of grease		Ball bearing								Roller bearing							
Ball	Roller		100	2-	pole	4-1	oole	6-1	oole	8-p	oole	2-	pole	4-	pole	6-pole		8-pole	
bearing	bearing	g	СС	50Hz	60Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60
6310	NU310	20	22	32	28	50	50	50	50	50	50	27	22	50	44	50	50	50	50
6311	NU311	25	28	30	25	50	50	50	50	50	50	24	20	48	40	50	50	50	50
6312	NU312	30	33	28	23	50	46	50	50	50	50	22	18	44	36	50	50	50	50
6313	NU313	35	39	26	21	50	42	50	50	50	50	20	17	40	34	50	50	50	50
6314	NU314	40	45	24	20	48	40	50	50	50	50	19	16	38	32	50	48	50	50
6315	NU315	45	50	-	-	44	36	50	50	50	50	-	-	36	30	50	45	50	50
6316	NU316	50	56	-	-	42	34	50	50	50	50	-	-	34	28	50	42	50	50
6317	NU317	55	61	-	-	38	32	50	48	50	50	-	-	30	26	45	39	50	50
6318	NU318	60	67	-	-	36	30	50	45	50	50	-	-	30	24	45	36	50	48
6319	NU319	65	72	-		34	28	50	42	50	50	-	-	28	22	42	33	50	44
6320	NU320	70	78	-	-	32	28	48	42	50	50	-	-	26	22	39	33	50	44

Standard Specification

No.	Item		Stan	dard specification	Semi-standard specification		
1	Standard			JIS, JEC, JEM	IEC, BS		
2	Protection/Cooling type		Totally- frame Indoor	O, ICO1 of type IP22, ICO1 enclosed splash-proof surface cooled type type: IP44, ICO141	IP54, IP55		
3	Rotor construction			rel-cage rotor type			
-	Tiotor construction		37kW and below	200V-50-60Hz, 220V-60Hz			
4	Rated voltage/frequency		45 kW and above	400V-50Hz, 440V-60Hz	Other than standard specification		
			Frame 112M and below	Class E insulation			
5	Type of insulation		Frame 132S~180M	Class B insulation	Other than standard specification		
			Frame 180L and above	Class F insulation			
6	Ambient temperature an	nd altitude	−20 °C~	40 °C 1000m or below	Other than standard specification		
7	Environmental condition	ns	C. C	e humidity 90% Max. acid or alkaline gas may exist.			
		Locked-rotor	37kW and below	According to JIS C 4210			
	Torque characteristics	torque	45 kW and above	100%			
8		0.11	37 kW and below	According to JIS C 4210	Other than standard specification		
0	Torque characteristics	Pull-up torque	45 kW and above	90%	Other than standard specification		
		Break-down	37kW and below	According to JIS C 4210			
		torque	45 kW and above	200%			
9	Time rating			Continuous			
10	Revolving direction		Clockwise as s	een from anti-coupling side	Counter-clockwise		
		Protected drip- proof type	All frames	Right side as seen from opposite coupling side			
11	Position of terminal box	Totally-enclosed	Frame 225 and below	Right side as seen from opposite coupling side			
		splash-proof type	Frame 250 and above	Upper side of the motor			
12	Terminal arrangement		Lug typ	pe (lead wire system)	Stud type		
		Protected drip-proof type	All frames	Downward			
13	Direction of external cable intake	Totally-enclosed	Frame 225 and below	Downward (toward opposite coupling side for outdoor type)			
		splash-proof type	Frame 250 and above	Right side as seen from opposite coupling side			
			Indoor use	Knockout type	Packing type (with threads		
14	External cable intake me	thod	Outdoor use	Threaded joint steel conduit type	for conduit pipe)		
15	Color of coating		Munsell 5	B5/0.5 (standard color)	Other than standard color		
16	Accessories			Shaft end key	Slide base (Frame 200 and below) Slide rail (Frame 225 and above) Foundation bolts		
- 1					Space heater		

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Please specify the following items when ordering LITTLE KING series motors.

No.	Specification item	Appointment item	Remarks	No.	Specification item	Appointment item	Remarks	
1 2	Facility Driven			13	Starting method	Direct/Star- delta/Reduced voltage	Specify the type of starter, and the tap voltage when reduced voltage starting is required.	
	equipment					Tonago	otal inig io roquirous	
3	Quantity	134/			Starting	T: //	When the starting frequency is more than several times per day, please	
4	Output	kW		14	frequency	Time/day	specify the numbeer of times ot starting and its interval time.	
5	No. of poles	P					starting and its interval time.	
6	Voltage	V		15	Load moment of inertia J		When the GD ² of the load is large,	
7	Frequency	50Hz · 60Hz			(In terms of	kg·m²	please specify it. (J=1/4 GD ²)	
8	Location	Indoor Outdoor			motor shaft)			
		Protected type Protected drip- proof type	IP20, IC01 IP22, IC01		Performance required	Locked-rotor torque (%), Breakdown torque (%) etc.	When any requirements concerned with performance exist, please specify the value of them.	
9	Туре	Totally-enclosed frame surface cooled type Indoor type Outdoor type	IP44, IC0141 IPW44, IC0141	17	Noise level limitation	Yes · No	When low noise type is required, please specify the value of noise in dB (A).	
10	Coupling with	Direct coupling	Specify the following items in case of belt drive: Diameter of pulley (P.C.D.),	18	Explosion-proof	Yes · No	Specify the kind and class of gas and explosion-proof classification.	
10	load	Belt drive	Pulley width (PW), Kind of belt, No. of belt		Environmental	Standard,	Specify the specific items. (Ambient temperature, humidity, corrosive gas, vibration and	
11	Revolving direction	Counter clockwise Clockwise	Viewed from opposite coupling side	19	conditions	Non-standard	description related with the equipment delivered before.)	
10	Terminal		Terminal leadout: Lug type Stud type: Direct: Right or left side as viewed from opposite coupling side; Diameter of the screw: Kind and size of cable		Finished color	Yes · No	Munsell 5B5/0.5 (Standerd color)	
12	Terminal				Accessories/ spare parts	With, Without	Specify the article and quantity of it.	



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