



Changes for the Better

THREE PHASE INDUCTION MOTOR

SUPER LINE Q SERIES

Multi-purpose energy saving for all requirements

1/4~10HP (63~132Fr.)



SF- QR 1HP 4P



SF- QRV 3HP 4P



SF- QRB 3HP 4P

15~75HP (160~225Fr.)



SF- Q 15HP 4P



SF- QV 20HP



SF- Q 50HP 4P

Efficiency class label



MOTOR EFFICIENCY CLASS IE1

- Motor efficiency class IE1 conformed with IEC 60034-30-1
- Same installation based on IEC standard
- Compatible with distribution control devices
- High corrosion resistance
- Degrees of protection : IP44 & IP55
- Thermal class : 130(B) & 155(F)

ENERGY SAVING FOR A GREEN WORLD

What's New

Advance efficiency for energy saving

Efficiency is higher than non IE1 motor, Advanced energy saving is possible with three phase Q-Series.

MITSUBISHI ELECTRIC THREE PHASE INDUCTION MOTOR			
3 HP (2.2 kW)	4 POLE	TYPE	SF-QR
Hz	50	50	50
V	220	380	415
A	8.7	5.0	4.9
min ⁻¹	1420	1420	1440
P.F.	0.84	0.84	0.78
RATED EFF.	79.7%	79.7%	79.7%
EFF. CLASS.	IE1	IE1	IP55
STD.	IEC 60034-1	IEC 60034-30-1	IC411
MITSUBISHI ELECTRIC AUTOMATION (THAILAND) CO.,LTD.	NM04N469-03	SERIAL	

Sample name plate model : SF-QR 3HP(2.2kW) 4P IP55

*The efficiency values and IE code are specified on nameplate.



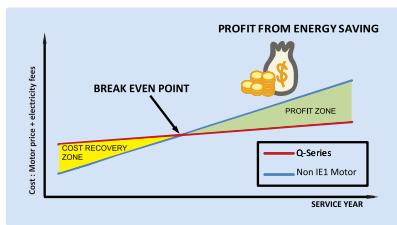
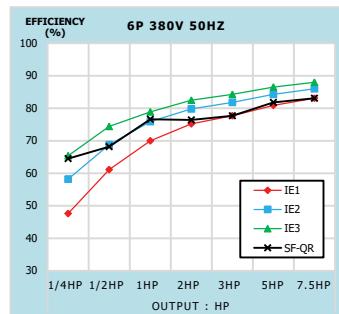
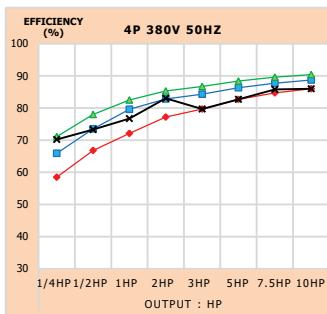
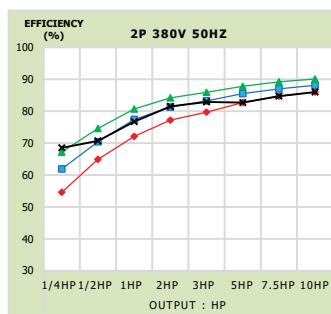
Old : under coat by dipping

New : under coat by EDP

By salt spray test 192Hr

Hidden profit from energy saving

The investment cost of motor doesn't refer to only price, but including the variable electricity fees. Three phase Q-Series can be help to reach a break even point quicker by advance energy saving performance, to consume less electricity fees.



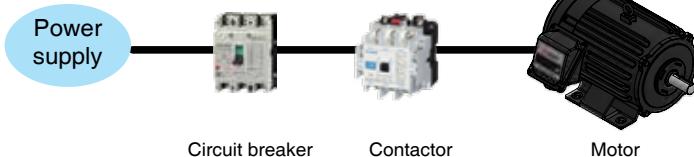
Feature and Benefits

Efficiency class guarantee

The optimized electrical design and the material with low generation loss are used for core that make MITSUBISHI ELECTRIC AUTOMATION (THAILAND) guarantee "IE1" efficiency class on three phase motor.

Compatibility with distribution control devices

Since the motors are designed for combined use with Mitsubishi's distribution control devices. The devices with equivalent specifications can be used for conventional motors.



Compact Size and Light Weight

Size and weight reductions have been achieved by use of steel-plate frame and aluminium brackets in the small-capacity motors.

Highly Reliable Insulation Systems

Class B and F insulation systems are characterized by superior resistance to heat, humidity and chemicals for top-notch reliability.

Full Lineup

We have produced variety types of motors, ranged from 1/4 HP to 75 HP, thus providing a full lineup of motors ideal for any application.

Superlative Characteristics and High Reliability

Based on experience and technology accumulated over many years, along with an exacting quality-control system, each motor is ensured to exhibit only the finest characteristics.

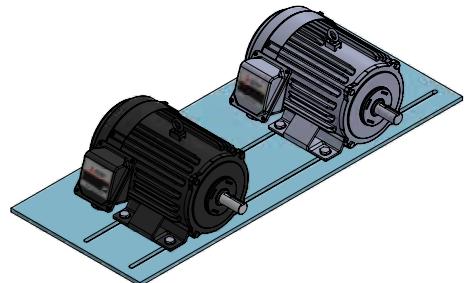
Safety: All the rotating parts and the "live" areas are made sure that it cannot be accidentally touched directly.

Smooth Acceleration: The low moment of inertia of the rotor combined with the motor's high acceleration torque, contributes to smooth starting and stopping.

Low Noise and Vibration Levels: This feature has been achieved due to our highly individualized electrical design, the ample rigidity and the precise machining of the motor frames and brackets, and the exact balancing of the rotor.

Installation

Q-series models can completely replace the J-series.
(Installation base according to IEC standard)



Significance of type designations

S	F	-	Q	R	V
Mounting configuration					
Blank = Foot mounting					
V = Vertical type					
F = Flange type					
Frame material					
Blank = Cast iron					
R = Steel plate					
Enclosure					
B = Drip-proof					
F = Totally enclosed fan-cooled					
E = Totally enclosed					
Super LineQ Series					
Q = Quality					

Characteristics and performance

SF-QR 1/4~10HP 2P, 4P (63~132Fr.) IP44, IP55

SF-QRV 1/4~10HP 2P, 4P (63~132Fr.) IP55

SF-QR 1/4~7.5HP 6P (71~132Fr.) IP44, IP55

SF-QRV 1/4~7.5HP 6P (71~132Fr.) IP55

Type	Pole	Rated power		Frame No.	Hz	Volt	50% Load			75% Load			100% Load			Torque(%)		Is (A)	Inertia J (kg·m²)		
		HP	kW				I (A)	Eff(%)	PF	I (A)	Eff (%)	PF	I (A)	Eff (%)	PF	Speed (min⁻¹)	Torque (kg·m)	Tm	Ts		
2P	LT	1/4	0.2	63M	50	220	0.83	62.4	0.51	0.92	67.5	0.63	1.00	68.5	0.73	2850	0.068	341	272	5.4	0.0005
		1/2	0.4	71M	50	220	1.30	69.4	0.58	1.54	71.7	0.71	1.80	70.7	0.81	2830	0.138	332	287	10.0	0.0008
		1	0.75	80M	50	380	1.2	74.7	0.62	1.5	77.0	0.75	1.75	76.7	0.83	2830	0.258	403	376	12.3	0.0014
		2	1.5	90L	50	380	2.0	81.2	0.71	2.5	82.4	0.82	3.2	81.5	0.86	2870	0.509	365	285	23.9	0.0025
		3	2.2	90L	50	415	2.1	80.3	0.61	2.6	82.5	0.74	3.1	82.6	0.81	2900	0.504	444	344	25.8	
		5	3.7	112M	50	380	4.2	83.4	0.79	9.9	83.9	0.87	12.8	82.7	0.90	2890	1.25	334	186	84.0	0.0073
		7.5	5.5	132S	50	415	4.4	82.3	0.71	5.6	83.8	0.82	7.0	83.2	0.86	2920	1.23	403	227	52.9	
		10	7.5	132S	50	220	14.2	86.3	0.80	19.6	86.5	0.87	25.5	86.0	0.89	2890	2.53	350	284	185	0.017
		1/4	0.2	63M	50	380	0.53	62.3	0.45	0.57	67.1	0.58	1.10	70.2	0.67	1430	0.136	329	290	5.1	0.0010
		1/2	0.4	71M	50	380	0.85	67.7	0.51	1.66	71.0	0.65	2.00	73.3	0.73	1400	0.278	327	306	10.1	0.0015
4P	LT	1	0.75	80M	50	380	1.2	76.4	0.62	1.5	76.7	0.75	3.20	76.7	0.81	1400	0.522	325	321	18.9	0.0027
		2	1.5	90L	50	380	2.3	81.5	0.61	2.8	82.5	0.74	3.5	83.0	0.79	1430	1.02	386	312	25.4	0.0075
		3	2.2	100L	50	415	3.4	77.0	0.58	4.0	79.2	0.71	4.9	79.7	0.78	1440	1.49	288	303	35.9	0.0082
		5	3.7	112M	50	380	5.0	82.9	0.67	10.9	83.4	0.79	14.0	83.1	0.84	1430	2.52	372	294	109	0.0150
		7.5	5.5	132S	50	415	5.6	79.9	0.57	6.6	82.1	0.70	8.0	83.2	0.77	1450	2.48	451	355	67.8	
		10	7.5	132M	50	220	12.8	83.0	0.68	16.3	83.8	0.79	20.2	84.7	0.84	1450	3.69	358	306	163	0.0325
		1/4	0.2	71M	50	380	7.4	83.0	0.68	9.4	83.8	0.79	11.7	84.7	0.84	1450	3.69	358	306	94.3	
		1/2	0.4	80M	50	415	8.4	80.0	0.57	9.9	82.7	0.70	11.6	84.7	0.77	1460	3.67	434	380	102	
		1/4	0.2	71M	50	380	9.3	84.4	0.71	12.3	84.9	0.81	15.5	86.0	0.85	1450	5.04	339	312	127	0.0401
		1/2	0.4	80M	50	415	10.2	82.5	0.61	12.4	84.4	0.74	15.0	86.2	0.80	1460	5.00	438	393	138	
6P	LT	1/4	0.2	71M	50	220	1.00	60.0	0.43	1.09	64.3	0.55	1.23	64.5	0.65	920	0.212	272	245	4.5	0.0015
		1/2	0.4	80M	50	380	0.58	60.0	0.43	0.63	64.3	0.55	0.71	64.5	0.65	920	0.212	272	245	2.6	0.0027
		1	0.75	90L	50	380	1.10	62.8	0.40	1.19	67.5	0.51	1.30	69.0	0.61	930	0.419	354	328	5.9	
		2	1.5	100L	50	380	3.1	73.1	0.43	3.4	76.3	0.56	4.0	76.6	0.64	960	0.761	337	278	22.6	0.0075
		3	2.2	112M	50	380	3.8	77.6	0.55	4.6	78.7	0.68	5.6	77.7	0.76	940	2.28	294	250	32.8	0.016
		5	3.7	132S	50	415	4.1	76.8	0.48	4.7	79.9	0.61	5.4	79.0	0.70	950	2.25	365	277	34.4	
		7.5	5.5	132M	50	220	9.1	83.3	0.64	11.6	83.6	0.75	14.5	81.8	0.80	950	3.79	276	215	83.3	0.033
		10	7.5	132S	50	380	5.3	83.3	0.64	6.7	83.6	0.75	8.4	81.8	0.80	950	3.79	276	215	48.1	
		1/4	0.2	71M	50	380	7.8	83.9	0.63	9.8	84.7	0.74	12.3	83.1	0.80	950	5.64	292	226	131	0.045
		1/2	0.4	80M	50	415	8.8	81.1	0.53	10.5	83.5	0.65	12.3	83.1	0.73	950	5.64	352	272	82.7	

HT	2P	5	3.7	112M	50	380	4.3	83.0	0.79	5.8	83.5	0.86	7.5	82.7	0.90	2890	1.25	341	203	53.6	0.0073
		7.5	5.5	132S	50	380	6.7	83.2	0.75	8.9	84.1	0.83	11.4	84.7	0.86	2900	1.85	327	236	73.3	0.012
4P	10	7.5	132S	50	380	8.4	85.9	0.79	11.5	86.5	0.86	14.8	86.0	0.89	2900	2.52	365	296	109	0.017	
	5	3.7	112M	50	415	5.7	78.0	0.57	6.7	80.6	0.70	8.1	82.7	0.84	1440	2.50	351	273	61.9	0.0150	
6P	7.5	5.5	132S	50	380	7.5	82.9	0.67	9.4	84.2	0.78	11.7	85.8	0.84	1450	3.69	356	328	95.4	0.0325	
	10	7.5	132M	50	415	9.7	83.9	0.64	12.0	85.4	0.76	14.7	86.7	0.82	1460	5.00	428	391	134	0.0401	
2P	5	3.7	132S	50	380	5.4	82.4	0.63	6.8	83.1	0.74	8.52	81.8	0.80	950	3.79	284	206	49.1	0.033	
	7.5	5.5	132M	50	415	9.3	78.1	0.52	10.6	82.1	0.65	12.6	83.1	0.73	960	5.58	369	270	84.0	0.045	

Characteristics and performance

SF-Q 15~75HP 2P, 4P (160~225Fr.) IP55,
 SF-QV 15~40HP 2P, 4P (160~180Fr.) IP55,

SF-Q 10~60HP 6P (160~225Fr.) IP55
 SF-QV 10~30HP 6P (160~180Fr.) IP55

Type	Pole	Rated power		Frame No.	Hz	Volt	50% Load			75% Load			100% Load					Torque(%)		Is (A)	Inertia J (kg·m²)	
		HP	kW				I (A)	Eff(%)	PF	I (A)	Eff(%)	PF	I (A)	Eff (%)	PF	Speed (min⁻¹)	Torque (kg·m)	Tm	Ts			
LT	2P	15	11	160M	50	220	21.0	89.1	0.77	28.6	89.4	0.85	38.3	87.6	0.86	2915	3.67	317	226	241	0.036	
				380	12.1	89.2	0.77	16.5	89.5	0.85	22.1	87.6	0.86	2915	3.67	322	232	141	154			
		20	15	160M	50	220	28.1	90.7	0.77	38.4	90.7	0.85	51.4	88.7	0.87	2910	5.02	334	244	340	0.044	
				380	16.2	90.8	0.77	22.2	90.8	0.85	29.7	88.7	0.87	2910	5.02	341	252	199	218			
		25	18.5	160L	50	220	32.0	91.8	0.83	45.0	91.8	0.88	61.1	90.1	0.88	2915	6.18	359	273	436	0.056	
				380	18.5	91.9	0.83	26.0	91.8	0.88	35.3	90.1	0.88	2915	6.18	362	280	255	279			
		30	22	180M	50	220	38.3	90.7	0.83	54.0	91.0	0.88	74.0	89.9	0.87	2920	7.33	308	199	451	0.088	
				380	22.2	90.8	0.83	31.3	91.1	0.88	42.7	89.9	0.87	2920	7.33	311	204	265	290			
	4P	40	30	180L	50	220	52.6	91.8	0.81	73.9	92.1	0.87	99.4	90.7	0.88	2925	9.98	350	238	705	0.111	
				380	30.3	92.0	0.82	42.5	92.2	0.87	57.4	90.7	0.88	2925	9.98	355	247	412	450			
		50	37	200L	50	220	65.5	91.8	0.81	90.3	92.6	0.87	122	91.6	0.87	2965	12.15	362	260	921	0.193	
				380	37.8	91.9	0.81	52.3	92.6	0.87	70.3	91.6	0.87	2965	12.15	367	264	551	601			
		60	45	200L	50	220	77.6	92.4	0.82	108.9	92.8	0.88	147	91.7	0.88	2960	14.80	356	261	1086	0.218	
				380	44.9	92.4	0.82	63.0	92.8	0.88	85.0	91.7	0.88	2960	14.80	358	287	639	697			
		75	55	225S	50	220	94.7	92.5	0.82	133.3	92.7	0.88	181	92.1	0.87	2950	18.15	314	229	1159	0.282	
				380	54.7	92.5	0.83	77.1	92.8	0.88	105	92.1	0.87	2950	18.15	313	235	685	748			
6P	4P	15	11	160M	50	220	22.1	89.4	0.73	29.5	89.4	0.82	39.0	87.6	0.84	1455	7.36	321	292	256	0.072	
				380	12.7	89.6	0.73	17.0	89.6	0.82	22.5	87.6	0.85	1455	7.36	328	305	150	164			
		20	15	160L	50	220	29.3	90.8	0.74	39.2	90.9	0.83	52.1	89.0	0.85	1455	10.04	355	349	384	0.103	
				380	16.9	91.0	0.74	22.6	91.0	0.83	30.1	89.0	0.85	1455	10.04	359	354	225	246			
		25	18.5	180M	50	220	40.4	89.9	0.67	51.5	91.3	0.77	66.1	89.9	0.82	1475	12.21	373	301	499	0.175	
				380	23.1	90.1	0.67	29.6	91.4	0.78	38.2	89.9	0.82	1475	12.21	385	315	299	326			
	6P	30	22	180M	50	220	44.5	90.8	0.71	58.4	91.7	0.81	76.6	90.2	0.84	1475	14.52	362	287	567	0.200	
				380	25.5	91.0	0.72	33.7	91.8	0.81	44.2	90.2	0.84	1475	14.52	372	296	340	371			
		40	30	180L	50	220	57.0	92.0	0.75	76.6	92.2	0.84	102	90.7	0.85	1465	19.93	337	269	702	0.252	
				380	32.7	92.1	0.76	44.2	92.3	0.84	58.9	90.7	0.85	1470	19.87	344	276	418	457			
		50	37	200L	50	220	69.4	91.7	0.76	94.5	92.0	0.84	126.4	91.2	0.84	1470	24.50	305	204	754	0.390	
				380	40.0	91.9	0.77	54.5	92.2	0.84	73.0	91.2	0.84	1470	24.50	308	210	441	482			
		60	45	200L	50	220	84.3	91.9	0.76	114.6	92.2	0.84	152.9	91.7	0.84	1470	29.80	319	209	930	0.449	
				380	48.6	92.0	0.76	66.1	92.4	0.84	88.3	91.7	0.84	1470	29.80	316	217	546	596			
		75	55	225S	50	220	108.6	92.5	0.72	142.7	93.2	0.81	187.1	92.2	0.84	1480	36.17	391	248	1230	0.702	
				380	62.7	92.6	0.72	82.4	93.4	0.81	108	92.2	0.84	1480	36.17	371	249	722	789			
		10	7.5	160M	50	220	17.3	87.3	0.65	22.3	87.6	0.75	29.1	84.7	0.80	965	7.57	260	230	148	0.097	
				380	10.0	87.4	0.65	12.9	87.7	0.76	16.8	84.7	0.80	965	7.57	262	237	86.4	94.4			
	6P	15	11	160L	50	220	24.4	89.1	0.66	32.0	88.9	0.76	42.1	86.4	0.79	960	11.15	257	245	214	0.130	
				380	14.1	89.2	0.66	18.5	89.0	0.76	24.3	86.4	0.79	960	11.15	260	251	126	138			
		20	15	180M	50	220	34.2	89.6	0.64	43.0	90.4	0.76	56.3	89.0	0.79	975	14.98	308	281	359	0.283	
				380	19.5	89.9	0.65	25.2	90.5	0.75	32.5	89.0	0.79	975	14.98	314	286	210	342			
		25	18.5	180L	50	220	40.7	90.2	0.66	52.7	90.5	0.76	68.4	88.6	0.80	975	18.47	300	262	431	531	
				380	23.5	90.3	0.66	30.4	90.6	0.77	39.5	88.6	0.80	975	18.47	306	267	253	321			
		30	22	180L	50	220	44.8	90.7	0.71	59.9	90.5	0.80	79.8	89.2	0.81	970	22.08	266	240	461	0.359	
				380	25.8	90.8	0.71	34.5	90.7	0.80	46.1	89.2	0.81	970	22.08	271	246	271	345			
		40	30	200L	50	220	60.5	90.4	0.72	80.0	90.9	0.81	106	90.2	0.83	975	29.95	303	265	681	0.524	
				380	34.7	90.5	0.73	46.1	91.0	0.81	61.1	90.2	0.83	975	29.95	310	271	398	435			
		50	37	200L	50	220	72.5	91.1	0.74	96.6	91.5	0.82	129	90.8	0.83	975	36.94	308	265	841	944	
				380	41.8	91.2	0.74	55.8	91.5	0.83	74.3	90.8	0.83	980	36.94	313	276	496	541			
		60	45	225S	50	220	83.4	92.3	0.77	114.9	92.3	0.84	155	91.4	0.84	980	44.70	273	215	850	972	
				380	47.9	92.4	0.77	66.2	92.4	0.84	89.4	91.4	0.84	980	44.70	271	223	506	553			

Characteristics and performance

SF-Q 15~75HP 2P, 4P (160~225Fr.) IP55,
 SF-QV 15~40HP 2P, 4P (160~180Fr.) IP55,

SF-Q 10~60HP 6P (160~225Fr.) IP55
 SF-QV 10~30HP 6P (160~180Fr.) IP55

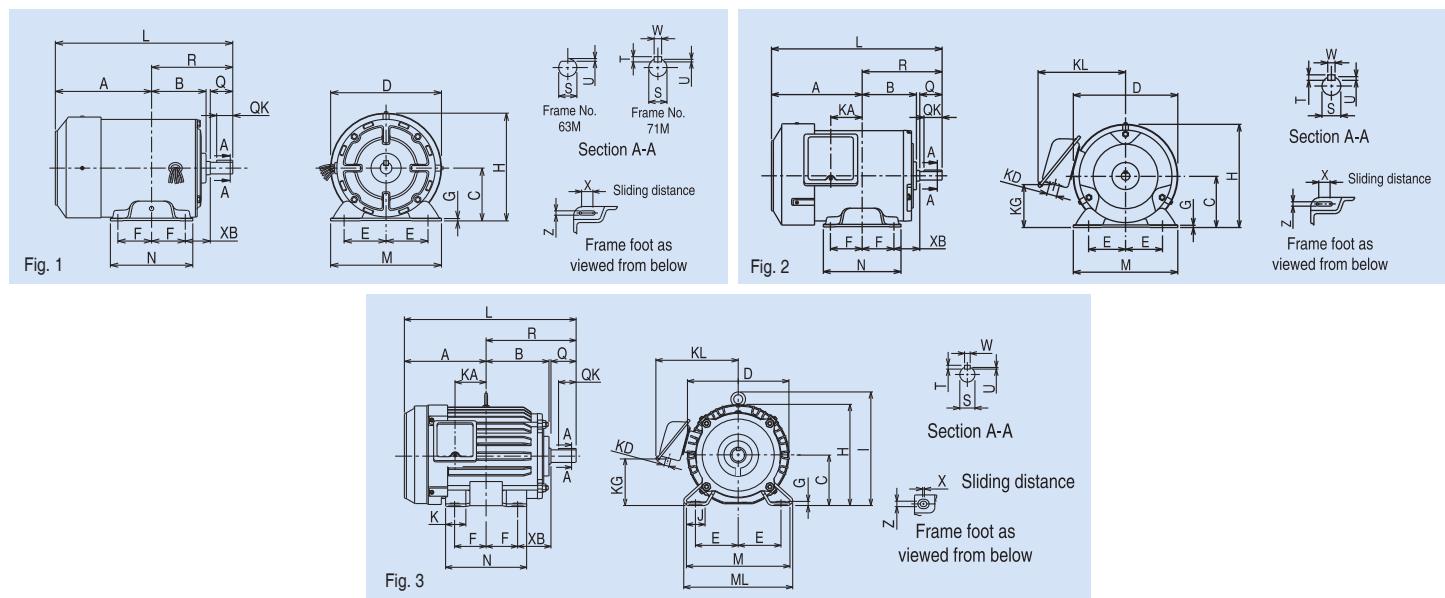
Type	Pole	Rated power		Frame No.	Hz	Volt	50% Load			75% Load			100% Load					Torque(%)		Is (A)	Inertia J (kg·m²)
		HP	kW				I (A)	Eff(%)	PF	I (A)	Eff(%)	PF	I (A)	Eff (%)	PF	Speed (min⁻¹)	Torque (kg·m)	Tm	Ts		
2P	HT	15	11	160M	50	380 415	12.1 12.7	89.0 87.8	0.78 0.69	16.4 16.3	89.4 89.2	0.85 0.79	22.1 21.0	87.6 87.9	0.87 0.83	2915 2930	3.67 3.65	318 382	233 279	140 153	0.036
		20	15	160M	50	380 415	15.9 16.8	90.5 89.3	0.79 0.70	22.0 21.6	90.4 90.4	0.86 0.80	29.5 28.1	88.7 89.1	0.87 0.83	2910 2930	5.02 4.98	323 388	242 291	194 212	0.044
		25	18.5	160L	50	380 415	18.6 18.7	91.9 91.4	0.82 0.75	26.1 25.0	91.9 92.0	0.88 0.84	35.3 33.1	90.1 90.8	0.88 0.86	2915 2935	6.18 6.14	363 435	283 340	260 284	0.056
		30	22	180M	50	380 415	23.0 23.6	91.4 90.7	0.80 0.72	31.7 30.7	91.8 91.8	0.86 0.81	42.7 40.2	90.2 91.0	0.87 0.84	2930 2945	7.31 7.27	332 398	214 257	286 312	0.088
		40	30	180L	50	380 415	29.8 29.9	92.4 91.8	0.83 0.76	42.1 40.5	92.4 92.4	0.88 0.84	57.1 53.5	90.7 91.2	0.88 0.86	2945 2955	9.98 9.92	332 398	223 267	392 428	0.111
		50	37	200L	50	380 415	37.3 38.0	92.0 91.2	0.82 0.74	51.8 50.5	92.7 92.5	0.88 0.83	69.9 66.3	91.6 91.8	0.88 0.85	2960 2970	12.17 12.13	351 420	265 317	531 580	0.193
		60	45	200L	50	380 415	45.3 47.0	92.3 91.1	0.82 0.73	63.1 62.0	92.9 92.4	0.87 0.82	84.6 81.1	91.9 91.7	0.88 0.84	2960 2970	14.80 14.75	355 425	268 320	657 718	0.218
		75	55	225S	50	380 415	55.7 56.9	92.0 91.3	0.81 0.74	77.4 75.1	92.7 92.6	0.87 0.83	104.4 98.6	92.1 92.1	0.87 0.84	2955 2970	18.12 18.03	367 439	273 327	812 887	0.282
4P	HT	15	11	160M	50	380 415	13.1 14.5	89.3 87.3	0.71 0.60	17.2 17.7	89.5 88.8	0.81 0.73	22.7 22.1	87.6 87.9	0.84 0.79	1455 1465	7.36 7.31	329 395	301 361	150 164	0.072
		20	15	160L	50	380 415	17.4 19.0	90.7 89.3	0.72 0.62	23.0 23.4	90.9 90.6	0.82 0.74	30.1 29.3	89.2 89.5	0.85 0.80	1455 1465	10.04 9.97	367 440	359 431	231 253	0.103
		25	18.5	180M	50	380 415	22.0 25.1	90.0 87.8	0.71 0.59	28.8 30.2	91.1 89.9	0.80 0.71	37.6 37.4	89.9 89.8	0.83 0.77	1470 1480	12.25 12.17	355 425	285 341	281 307	0.175
		30	22	180M	50	380 415	25.3 28.2	90.7 88.8	0.73 0.61	33.8 34.8	91.4 90.6	0.81 0.73	44.2 43.7	90.2 90.0	0.84 0.78	1470 1475	14.57 14.52	350 419	282 337	327 358	0.200
		40	30	180L	50	380 415	32.0 33.6	91.7 90.9	0.78 0.68	43.9 43.5	91.8 91.7	0.85 0.79	58.9 56.2	90.7 90.7	0.85 0.82	1465 1470	19.93 19.87	311 373	254 305	395 432	0.252
		50	37	200L	50	380 415	41.4 45.7	91.9 90.2	0.74 0.62	55.5 56.8	92.4 91.6	0.82 0.74	73.6 72.0	91.2 91.2	0.84 0.78	1475 1480	24.42 24.34	309 370	213 256	452 494	0.390
		60	45	200L	50	380 415	48.4 52.5	91.9 90.6	0.77 0.66	66.0 66.7	92.2 91.8	0.84 0.77	88.3 85.9	91.7 91.7	0.84 0.79	1470 1475	29.80 29.70	301 360	210 251	539 589	0.449
		75	55	225S	50	380 415	60.0 64.4	92.7 91.3	0.75 0.65	80.5 80.9	93.3 92.7	0.83 0.76	106.8 103.3	92.2 92.2	0.85 0.80	1475 1480	36.30 36.17	335 401	228 273	672 733	0.702
6P	HT	10	7.5	160M	50	380 415	10.3 11.7	86.7 83.4	0.64 0.54	13.2 13.8	87.1 85.7	0.74 0.66	17.1 17.0	84.7 84.7	0.79 0.73	965 970	7.57 7.53	272 327	243 292	89.5 97.8	0.097
		15	11	160L	50	380 415	14.2 15.7	88.4 76.3	0.67 0.56	18.5 19.0	88.4 87.8	0.77 0.69	24.3 23.8	86.4 86.4	0.79 0.75	960 970	11.15 11.04	270 325	256 309	129 141	0.130
		20	15	180M	50	380 415	19.7 21.8	89.4 87.2	0.65 0.55	25.2 26.1	90.2 89.2	0.75 0.67	32.5 32.1	88.5 88.3	0.79 0.74	975 980	14.98 14.90	319 382	268 321	220 229	0.283
		25	18.5	180L	50	380 415	22.5 24.2	90.3 88.9	0.69 0.60	29.6 29.9	90.5 90.1	0.79 0.72	39.0 37.8	88.6 88.9	0.81 0.77	975 980	18.47 18.38	294 353	253 303	245 267	0.321
		30	22	180L	50	380 415	25.2 26.7	91.0 90.0	0.73 0.64	34.2 33.8	90.7 90.7	0.81 0.75	45.8 43.5	89.2 89.2	0.82 0.79	970 975	22.08 21.96	266 320	233 280	264 288	0.359
		40	30	200L	50	380 415	34.2 37.3	90.9 89.2	0.73 0.63	45.9 46.3	91.1 90.6	0.82 0.75	61.1 59.0	90.2 90.2	0.83 0.78	975 980	29.95 29.80	297 356	253 303	380 415	0.524
		50	37	200L	50	380 415	43.2 47.9	91.0 89.0	0.72 0.60	56.9 58.9	91.5 90.6	0.81 0.72	75.1 74.0	90.8 90.8	0.82 0.77	975 980	36.94 36.75	323 387	282 338	508 555	0.644
		60	45	225S	50	380 415	47.7 51.3	92.4 90.9	0.78 0.67	65.8 65.9	92.3 91.8	0.84 0.78	89.1 85.5	91.4 91.4	0.84 0.80	980 985	44.70 44.47	272 326	222 265	509 556	0.972

SF-QR 1/4HP~10HP HORIZONTAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP44 DEGREES OF PROTECTION



SF-QR 1/2HP 4P 71M IP44



Dimensions (mm)

Model	Frame No.	Output HP (kW)			Fig.	Motor																Terminal box					
		2-Pole	4-Pole	6-Pole		A	B	C*	D	E	F	G	H	I	J	K	L	M	ML	N	X	XB	Z	KA	KG	KD	KL
SF-QR	63M	1/4(0.2)	1/4(0.2)	-	1	113	77	63	127	50	40	2.3	129	-	-	-	216	135	-	100	12	40	7	-	-	-	-
	71M	1/2(0.4)	1/2(0.4)	1/4(0.2)		118	87	71	148	56	45	3.2	147	-	-	-	238	148	-	110	18	45	7	-	-	-	-
	80M	1(0.75)	1(0.75)	1/2(0.4)	2	122	95	80	162	62.5	50	3.2	165	-	-	-	262	160	-	125	15	50	9	39.5	63	27	145
	90L	2(1.5), 3(2.2)	2(1.5)	1(0.75)		143	114	90	184	70	62.5	4	186	-	-	-	311.5	175	-	150	15	56	9	53	76	27	158
	100L	-	3(2.2)	2(1.5)	3	173	128	100	207	80	70	6.5	204	230	40	45	366	200	212	180	4	63	12	65	88	27	169
	112M	5(3.7)	5(3.7)	3(2.2)		181	135	112	228	95	70	6.5	225	253	40	45	381	230	242	180	4	70	12	69	103	27	180
	132S	7.5(5.5), 10(7.5)	7.5(5.5)	5(3.7)		211.5	152	132	266	108	70	6.5	265	288	40	45	450.5	256	268	180	4	89	12	75	120	27	197
	132M	-	10(7.5)	7.5(5.5)		230.5	171	132	266	108	89	6.5	265	288	40	45	488.5	256	268	218	4	89	12	94	120	27	197

* The perpendicular variation of tolerance for the shaft center is ${}^0_{-0.5}$

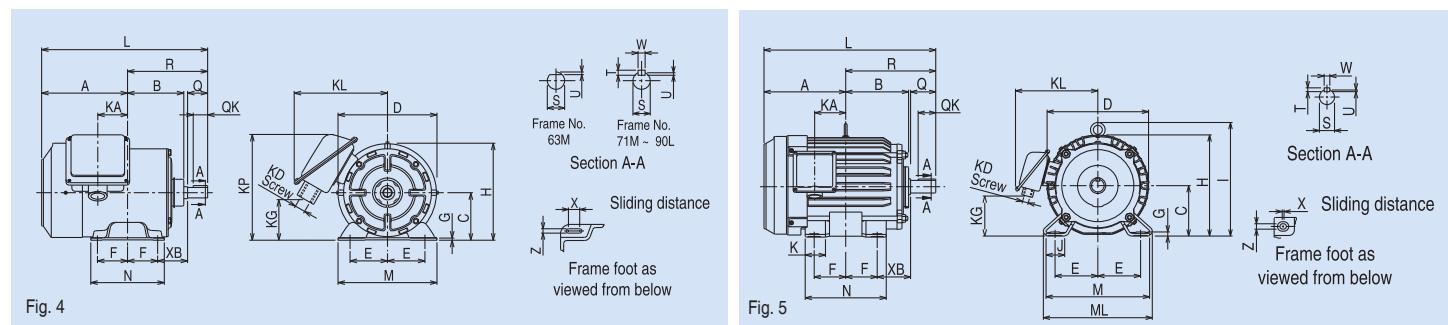
Model	Frame No.	Shaft end						Bearing No.		Approximate weight (kg)			Approximate packing dimension (LxWxH)	Packing weight (kg)			
		Q	QK	R	S	T	U	W	Drive end	Opposite	2-Pole	4-Pole	6-Pole	2-Pole	4-Pole	6-Pole	
SF-QR	63M	23	-	103	11 h6	-	1	-	6201ZZ	6201ZZ	5	5.5	-	245 x 165 x 170	5.5	6	-
	71M	30	25	120	14 j6	5	3	5	6202ZZ	6201ZZ	7	8	7.3	270 x 200 x 185	7.5	8.5	7.8
	80M	40	32	140	19 j6	6	3.5	6	6204ZZ	6203ZZ	10.5	11.5	11	315 x 270 x 206	11	12	11.5
	90L	50	40	168.5	24 j6	7	4	8	6205ZZ	6204ZZ	16.5, 20	19	19	368 x 280 x 226	17, 20.5	19.5	19.5
	100L	60	45	193	28 j6	7	4	8	6206ZZ	6205ZZ	-	24	25	430 x 355 x 300	-	25	26
	112M	60	45	200	28 j6	7	4	8	6207ZZ	6206ZZ	31	33.1	35	439 x 345 x 290	36.5	38.6	40.5
	132S	80	63	239	38 k6	8	5	10	6308ZZ	6207ZZ	43, 51	46.8	46	529 x 384 x 303	50.5, 58.5	56.1	53.5
	132M	80	63	258	38 k6	8	5	10	6308ZZ	6207ZZ	-	59.3	57.5	529 x 384 x 303	-	66.8	65

SF-QR 1/4HP~10HP HORIZONTAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QR 3HP 4P 100L



Dimensions (mm)

Model	Frame No.	Output HP (kW)			Fig.	Motor															Terminal box							
		2-Pole	4-Pole	6-Pole		A	B	C*	D	E	F	G	H	I	J	K	L	M	ML	N	X	XB	Z	KA	KG	KD	KL	KP**
SF-QR	63M	1/4(0.2)	1/4(0.2)	-	4	121.4	73.6	63	127	50	40	2.3	129	-	-	-	224.4	135	-	100	12	40	7	38.4	75	PF1/2	130	162
	71M	1/2(0.4)	1/2(0.4)	1/4(0.2)		128.5	83	71	148	56	45	3.2	147	-	-	-	248.5	148	-	110	18	45	7	44.5	67	PF1/2	140	161
	80M	1(0.75)	1(0.75)	1/2(0.4)		122	98	80	162	62.5	50	3.2	165	-	-	-	262	160	-	125	15	50	9	39.5	38	PF3/4	145	-
	90L	2(1.5), 3(2.2)	2(1.5)	1(0.75)		143	117	90	184	70	62.5	4	186	-	-	-	311.5	175	-	150	15	56	9	53	59	PF3/4	158	-
	100L	-	3(2.2)	2(1.5)	5	173	131	100	207	80	70	6.5	204	230	40	45	366	200	212	180	4	63	12	65	64	PF3/4	170	-
	112M	5(3.7)	5(3.7)	3(2.2)		181	138	112	228	95	70	6.5	225	253	40	45	381	230	242	180	4	70	12	69	87	PF3/4	182	-
	132S	7.5(5.5), 10(7.5)	7.5(5.5)	5(3.7)		211.5	155	132	266	108	70	6.5	265	288	40	45	450.5	256	268	180	4	89	12	75	96	PF1	210	-
	132M	-	10(7.5)	7.5(5.5)		230.5	174	132	266	108	89	6.5	265	288	40	45	488.5	256	268	218	4	89	12	94	96	PF1	210	-

* The perpendicular variation of tolerance for the shaft center is $0^-0.5$

** This dimension is for model which KP > H only.

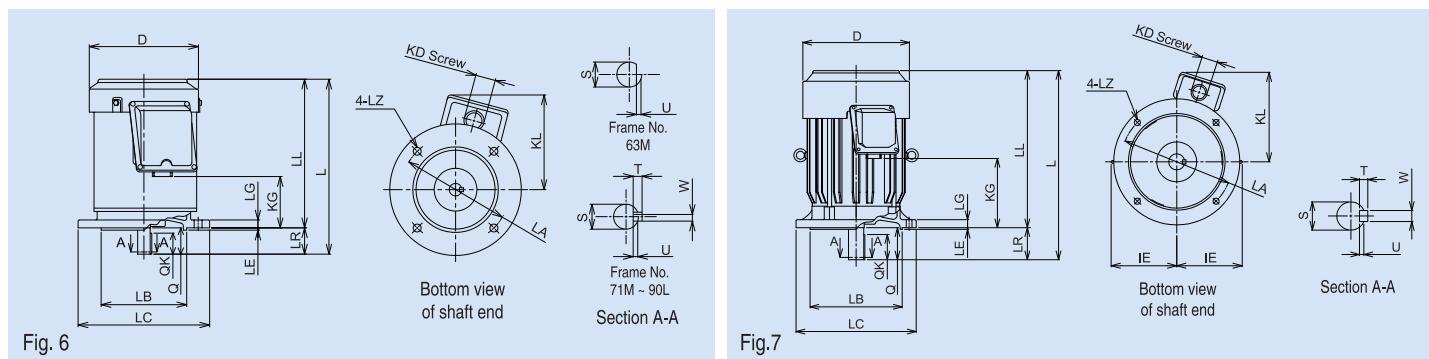
Model	Frame No.	Shaft end							Bearing No.		Approximate weight (kg)			Approximate packing dimension (LxWxH)			Packing weight (kg)		
		Q	QK	R	S	T	U	W	Drive end	Opposite	2-Pole	4-Pole	6-Pole				2-Pole	4-Pole	6-Pole
SF-QR	63M	23	-	103	11 h6	-	1	-	6201ZZ	6201ZZ	5	5.5	-	272 x 226 x 222			5.5	6	-
	71M	30	25	120	14 j6	5	3	5	6202ZZ	6201ZZ	7	8	7.3	275 x 256 x 180			7.5	8.5	7.8
	80M	40	32	140	19 j6	6	3.5	6	6204ZZ	6203ZZ	10.5	11.5	11	315 x 270 x 206			11	12	11.5
	90L	50	40	168.5	24 j6	7	4	8	6205ZZ	6204ZZ	16.5, 20	19	19	368 x 280 x 206			17, 20.5	19.5	19.5
	100L	60	45	193	28 j6	7	4	8	6206ZZ	6205ZZ	-	24	25	456 x 355 x 300			-	25	26
	112M	60	45	200	28 j6	7	4	8	6207ZZ	6206ZZ	31	33.1	35	469 x 375 x 320			36.5	38.6	40.5
	132S	80	63	239	38 k6	8	5	10	6308ZZ	6207ZZ	43, 51	46.8	46	559 x 414 x 333			50.5, 58.5	56.1	53.5
	132M	80	63	258	38 k6	8	5	10	6308ZZ	6207ZZ	-	59.3	57.5	559 x 414 x 333			-	66.8	65

SF-QRV 1/4HP~10HP VERTICAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QRV 3HP 4P 100L



Model	Flange No.	Frame No.	Output HP (kW)			Fig.	Motor										Terminal box		
			2-Pole	4-Pole	6-Pole		D	IE	LA	LB	LC	LE	LG	LL	LZ	L	KD	KG	KL
SF-QRV	FF130	63M	1/4(0.2)	1/4(0.2)	-	6	127	-	130	110 j6	160	3.5	10	208	10	231	PF1/2	58	125
	FF130	71M	1/2(0.4)	1/2(0.4)	1/4(0.2)		148	-	130	110 j6	160	3.5	10	229	10	259	PF1/2	80	138
	FF165	80M	1(0.75)	1(0.75)	1/2(0.4)		162	-	165	130 j6	200	3.5	12	226	12	266	PF3/4	78	144
	FF165	90L	2(1.5), 3(2.2)	2(1.5)	1(0.75)		184	-	165	130 j6	200	3.5	12	288.5	12	338.5	PF3/4	133	156
	FF215	100L	-	3(2.2)	2(1.5)	7	207	130	215	180 j6	250	4	16	321	14.5	381	PF3/4	148	169
	FF215	112M	5(3.7)	5(3.7)	3(2.2)		228	141	215	180 j6	250	4	16	351	14.5	411	PF3/4	174	180
	FF265	132S	7.5(5.5), 10(7.5)	7.5(5.5)	5(3.7)		266	156	265	230 j6	300	4	20	392.5	14.5	472.5	PF1	173	213
	FF265	132M	-	10(7.5)	7.5(5.5)		266	156	265	230 j6	300	4	20	430.5	14.5	510.5	PF1	211	213

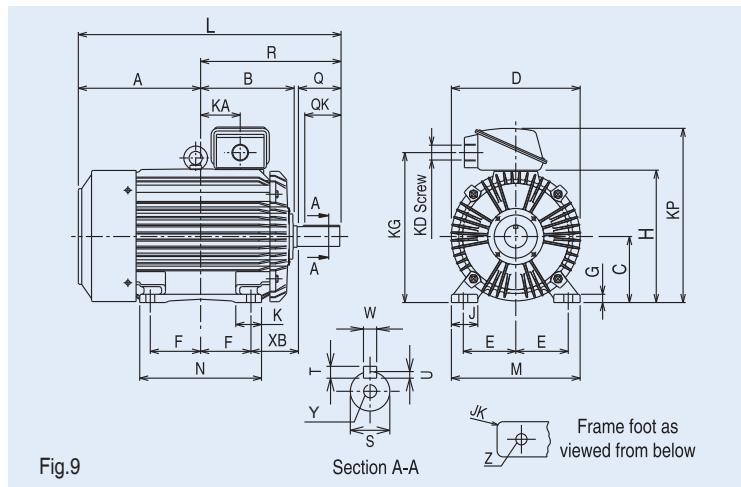
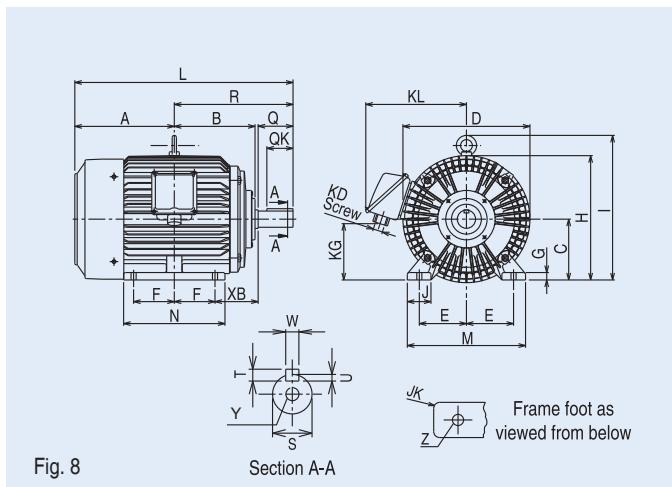
Model	Flange No.	Frame No.	Shaft end						Bearing No.		Approximate weight (kg)			Approximate packing dimension (LxWxH)	Packing weight (kg)			
			LR	Q	QK	S	T	U	W	Drive end	Opposite	2-Pole	4-Pole	6-Pole	2-Pole	4-Pole	6-Pole	
SF-QRV	FF130	63M	23	23	-	11 h6	-	1	-	6201ZZ	6201ZZ	6.5	6.6	-	318 x 256 x 180	6.8	6.9	-
	FF130	71M	30	30	25	14 j6	5	3	5	6202ZZ	6201ZZ	8.4	8.7	9	318 x 256 x 180	8.9	9.2	9.5
	FF165	80M	40	40	32	19 j6	6	3.5	6	6204ZZ	6203ZZ	12.5	14	13	368 x 280 x 226	13	14.5	13.5
	FF165	90L	50	50	40	24 j6	7	4	8	6205ZZ	6204ZZ	19, 23	22	21.5	425 x 280 x 226	19.8, 23.8	22.8	22.3
	FF215	100L	60	60	45	28 j6	7	4	8	6206ZZ	6205ZZ	-	28	29.5	456 x 355 x 300	-	29.5	31
	FF215	112M	60	60	45	28 j6	7	4	8	6207ZZ	6206ZZ	37	39	41	481 x 375 x 352	44	46	48
	FF265	132S	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	53, 60.5	56	56.5	581 x 433 x 382	61, 68.5	64	64.5
	FF265	132M	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	-	68	66	581 x 433 x 382	-	76	74

SF-Q 15HP~75HP(160M~225S) HORIZONTAL TYPE
 TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION


SF-Q 15HP 4P 160M



SF-Q 50HP 4P 200L



Dimensions (mm)

Model	Frame No.	Output HP (kW)			Fig.	Motor														Terminal box							
		2-Pole	4-Pole	6-Pole		A	B	C*	D	E	F	G	H	I	J	JK	K	L	M	N	XB	Z	KA	KG	KD	KL	KP
SF-Q	160M	15(11), 20(15)	15(11)	10(7.5)	8	252	207	160	324	127	105	20	322	373	55	R6	-	575	310	260	108	15	-	127	PF1 1/4	271	-
	160L	25(18.5)	20(15)	15(11)		274	229	160	324	127	127	20	322	373	55	R6	-	619	310	304	108	15	-	127	PF1 1/4	271	-
	180M	30(22)	25(18.5), 30(22)	20(15)		294.5	239	180	376	139.5	120.5	22	367	427	70	R6	-	646	350	300	121	15	-	151	PF1 1/2	295	-
	180L	40(30)	40(30)	25(18.5), 30(22)	9	313.5	258	180	376	139.5	139.5	22	367	427	70	R6	-	684	350	338	121	15	-	151	PF1 1/2	295	-
	200L	50(37), 60(45)	50(37), 60(45)	40(30), 50(37)		370.5	281	200	410	159	152.5	25	405	-	80	R6	78	(766) 796	390	369	133	18.5	120	476	PF2	-	550
	225S	75(55)	75(55)	60(45)		380	287.5	225	459	178	143	28	457	-	80	R8	82	(782) 812	430	350	149	18.5	120	528	PF2	-	602

0

* The perpendicular variation of tolerance for the shaft center is -0.5

Model	Frame No.	Shaft end						Shaft Tapping (MxPitchxD)	Bearing No.		Approximate weight (kg)			Approximate packing dimensions (LxWxH)	Packing weight (kg)			
		Q	QK	R	S	T	U	W	Y	Drive end	Opposite	2-Pole	4-Pole	6-Pole	2-Pole	4-Pole	6-Pole	
SF-Q	160M	110	90	323	42 k6	8	5	12	M16 x 2.0 x 36	6309ZZ	6308ZZ	105, 115	110	107	731 x 547 x 494	126, 136	131	128
	160L	110	90	345	42 k6	8	5	12	M16 x 2.0 x 36	6309ZZ	6308ZZ	145	136	135	731 x 547 x 494	166	157	156
	180M	110	90	351.5	48 k6	9	5.5	14	M16 x 2.0 x 36	6311ZZ	6310ZZ	193, 213	202	202	796 x 595 x 548	213	217, 237	226
	180L	110	90	370.5	55 m6	10	6	16	M20 x 2.5 x 42 (6312ZZC3) 6311ZZ	6310ZZ	220	231	221, 235	796 x 595 x 548	244	255	245, 259	
	200L	(110) 140	(90) 110	(395.5) 425.5	(55 m6) 60 m6	(10) 11	(6) 7	(16) 18	M20 x 2.5 x 42 (6312ZZC3) 6313ZZ	(6311ZZC3) 6311ZZ	303, 326	287, 311	297, 343	910 x 522 x 691	330, 353	314, 338	324, 370	
	225S	(110) 140	(90) 110	(402) 432	(55 m6) 65 m6	(10) 11	(6) 7	(16) 18	M20 x 2.5 x 42 (6312ZZC3) 6315ZZ	(6312ZZC3) 6312ZZ	340	356	372	924 x 579 x 774	370	386	402	

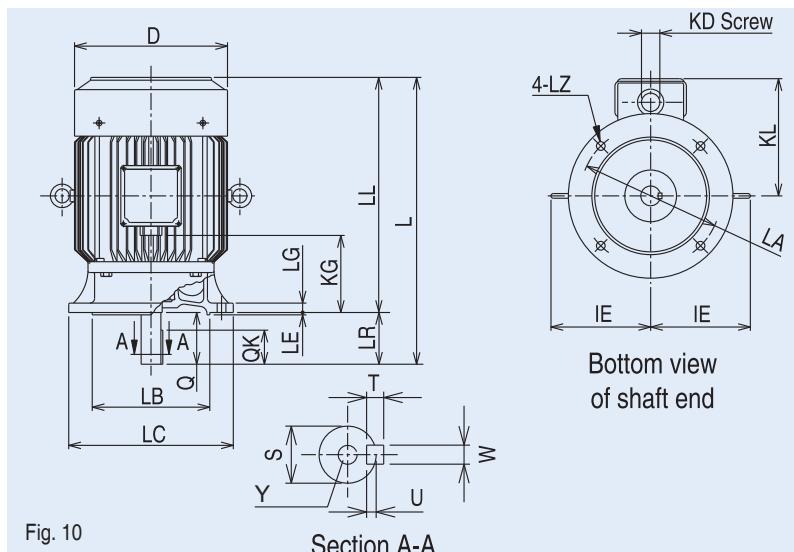
() is dimension for 2-pole motors.

SF-QV 15HP~40HP(160M~180L) VERTICAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QV 30HP 4P 180L



Model	Flange No.	Frame No.	Output HP (kW)			Fig.	Motor									Terminal box			
			2-Pole	4-Pole	6-Pole		D	IE	LA	LB	LC	LE	LG	LL	LZ	L	KD	KG	KL
SF-QV	FF300	160M	15(11), 20(15)	15(11)	10(7.5)	10	324	213	300	250j6	350	5	20	500	18.5	610	PF1 1/4	147	259
	FF300	160L	25(18.5)	20(15)	15(11)		324	213	300	250j6	350	5	20	544	18.5	654	PF1 1/4	169	259
	FF350	180M	30(22)	25(18.5), 30(22)	20(15)		376	247	350	300j6	400	5	20	576	18.5	686	PF1 1/2	176	284
	FF350	180L	40(30)	40(30)	25(18.5), 30(22)		376	247	350	300j6	400	5	20	614	18.5	724	PF1 1/2	195	284

Model	Frame No.	Shaft end							Shaft Tapping (MxPitchxDepth)	Bearing No.		Approximate weight (kg)			Approximate packing dimensions (LxWxH)	Packing weight (kg)		
		Q	QK	R	S	T	U	W		Drive end	Opposite	2-Pole	4-Pole	6-Pole		2-Pole	4-Pole	6-Pole
SF-QV	160M	110	90	323	42k6	8	5	12	M16 x 2.0 x 36	6309ZZ	6308ZZ	110, 120	113	110	766 x 546 x 557	134, 144	137	134
	160L	110	90	345	42k6	8	5	12	M16 x 2.0 x 36	6309ZZ	6308ZZ	150	141	140	766 x 546 x 557	174	165	164
	180M	110	90	351.5	48k6	9	5.5	14	M16 x 2.0 x 36	6311ZZ	6310ZZ	194	198, 218	207	836 x 596 x 610	221	225, 245	234
	180L	110	90	370.5	55m6	10	6	16	M20 x 2.5 x 42 (6312ZZC3) 6312ZZ	6310ZZ	225	236	226, 240	836 x 596 x 610	252	263	253, 267	

() is dimension for 2-pole motors.

Standard Specifications

Item	Specifications																																																																																																																																																																			
Voltage and frequency	LT (Low Voltage) : 220/380/415V 50Hz HT (High Voltage) : 380/415V 50Hz																																																																																																																																																																			
Enclosure construction and degrees of protection	<table border="1"> <thead> <tr> <th rowspan="2">Degrees of protection</th> <th rowspan="2">Enclosure construction</th> <th rowspan="2">Model name</th> <th rowspan="2">Pole</th> <th colspan="8">Output HP(kW)</th> </tr> <tr> <th>1/4(0.2)</th> <th>1/2(0.4)</th> <th>1(0.75)</th> <th>2(1.5)</th> <th>3(2.2)</th> <th>5(3.7)</th> <th>7.5(5.5)</th> <th>10(7.5)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">IP44, IP55</td> <td rowspan="6">Totally enclosed fan-cooled</td> <td rowspan="3">Horizontal type SF-QR</td> <td>2</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>4</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>6</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> </tr> <tr> <td rowspan="3">IP55</td> <td rowspan="6">Vertical type SF-QV</td> <td>2</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>4</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>6</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Degrees of protection</th> <th rowspan="2">Enclosure construction</th> <th rowspan="2">Model name</th> <th rowspan="2">Pole</th> <th colspan="8">Output HP(kW)</th> </tr> <tr> <th>10(7.5)</th> <th>15(11)</th> <th>20(15)</th> <th>25(18.5)</th> <th>30(22)</th> <th>40(30)</th> <th>50(37)</th> <th>60(45)</th> <th>75(55)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">IP55</td> <td rowspan="6">Totally enclosed fan-cooled</td> <td rowspan="3">Horizontal type SF-Q</td> <td>2</td> <td>-</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>4</td> <td>-</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>6</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> </tr> <tr> <td rowspan="3">IP55</td> <td rowspan="6">Vertical type SF-QV</td> <td>2</td> <td>-</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>-</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> <td>-</td> </tr> <tr> <td>6</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Degrees of protection	Enclosure construction	Model name	Pole	Output HP(kW)								1/4(0.2)	1/2(0.4)	1(0.75)	2(1.5)	3(2.2)	5(3.7)	7.5(5.5)	10(7.5)	IP44, IP55	Totally enclosed fan-cooled	Horizontal type SF-QR	2	●	●	●	●	●	●	●	4	●	●	●	●	●	●	●	6	●	●	●	●	●	●	-	IP55	Vertical type SF-QV	2	●	●	●	●	●	●	●	4	●	●	●	●	●	●	●	6	●	●	●	●	●	●	-	Degrees of protection	Enclosure construction	Model name	Pole	Output HP(kW)								10(7.5)	15(11)	20(15)	25(18.5)	30(22)	40(30)	50(37)	60(45)	75(55)	IP55	Totally enclosed fan-cooled	Horizontal type SF-Q	2	-	●	●	●	●	●	●	●	4	-	●	●	●	●	●	●	●	6	●	●	●	●	●	●	●	-	IP55	Vertical type SF-QV	2	-	●	●	●	●	●	-	-	4	-	●	●	●	●	●	-	-	6	●	●	●	●	●	-	-	-	* Standard vertical type motor can be used for indoor flange type									
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Method of cooling	IC411																																																																																																																																																																			
Rating	S1 (continuous)																																																																																																																																																																			
Frame material	63M ~ 132M : Steel plate 160M ~ 225S : Cast iron																																																																																																																																																																			
Power transmission system	Direct-coupled, Belt driven																																																																																																																																																																			
Direction of rotation	Counterclockwise (CCW) viewed from shaft end side.																																																																																																																																																																			
Thermal class	IP44 : 63M ~ 90L 130(B), 100L ~ 132M 155(F) IP55 : 63M ~ 225S 155(F)																																																																																																																																																																			
Circumstance conditions	Ambient temperature	-20 ~ +40 °C																																																																																																																																																																		
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	Altitude	1,000m above sea level or less																																																																																																																																																																		
	Environment	No bursting / erosive gas or vapor																																																																																																																																																																		
Connection type	Degrees of protection	Frame No.	Output HP (kW)			No. of leads	Connection type																																																																																																																																																													
	IP44	63M ~ 90L	1/4(0.2kW) ~ 2(1.5kW)			6	Lead wire																																																																																																																																																													
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Coating color	Munsell N1.5 (Black)																																																																																																																																																																			
Conformed standard	IEC 60034-1, IEC 60034-30-1																																																																																																																																																																			
Advantage	For 160M up -Shaft end with tapping -For 4P reinforced insulation for inverter operation																																																																																																																																																																			

Connection

Construction of lead wires	Connection diagram																																									
<p>Terminal box Lead wire</p>	<p>LT : 220/380/415V 50Hz</p> <p>NMS4N517-01</p>	<p>* HT : 380/415V 50Hz</p> <p>NMS4N518-01</p>																																								
<p>Lead wire</p> <p>IP 44: 63M ~ 71M IP55 : 160M ~ 225S</p>	<p>CONNECTION DIAGRAM (端子接続図)</p> <table border="1"> <thead> <tr> <th colspan="3">DUAL VOLTAGE (二種電圧)</th> <th>LOW VOLTAGE (低電圧) △ 220V</th> <th>HIGH VOLTAGE (高電圧) └ 380~415V</th> </tr> </thead> <tbody> <tr> <td>SOURCE (電源)</td> <td>R S T</td> <td>W1</td> <td>SOURCE (電源)</td> <td>R S T</td> </tr> <tr> <td>V1 W2</td> <td>U1 V1 W1</td> <td>U2</td> <td>V1 W1</td> <td>U1 V1 W1</td> </tr> <tr> <td>V2</td> <td>W2</td> <td>U2</td> <td>V2 W2 U2</td> <td>V2 W2 U2</td> </tr> </tbody> </table> <p>LT NMS4N753-01</p>	DUAL VOLTAGE (二種電圧)			LOW VOLTAGE (低電圧) △ 220V	HIGH VOLTAGE (高電圧) └ 380~415V	SOURCE (電源)	R S T	W1	SOURCE (電源)	R S T	V1 W2	U1 V1 W1	U2	V1 W1	U1 V1 W1	V2	W2	U2	V2 W2 U2	V2 W2 U2	<p>CONNECTION DIAGRAM (端子接続図)</p> <table border="1"> <thead> <tr> <th colspan="3">△-△ STARTING (スターデルタ始動)</th> <th>STARTING (始動) △</th> <th>RUNNING (運転) △</th> </tr> </thead> <tbody> <tr> <td>SOURCE (電源)</td> <td>R S T</td> <td>W1</td> <td>SOURCE (電源)</td> <td>R S T</td> </tr> <tr> <td>V1 W2</td> <td>U1 V1 W1</td> <td>U2</td> <td>V1 W1</td> <td>U1 V1 W1</td> </tr> <tr> <td>V2</td> <td>W2</td> <td>U2</td> <td>V2 W2 U2</td> <td>V2 W2 U2</td> </tr> </tbody> </table> <p>HT 54N438-02</p>	△-△ STARTING (スターデルタ始動)			STARTING (始動) △	RUNNING (運転) △	SOURCE (電源)	R S T	W1	SOURCE (電源)	R S T	V1 W2	U1 V1 W1	U2	V1 W1	U1 V1 W1	V2	W2	U2	V2 W2 U2	V2 W2 U2
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* HT can be used only with motors 5HP and above.

THREE PHASE INDUCTION MOTOR WITH ELECTROMAGNETIC BRAKE

Feature and benefits

Safety brake

Brake rated damping torque is about 150% of motor rated torque, enhance braking performance

High efficiency and high torque

Accumulated techniques and CAE (Computer Aided Engineering) analysis that we found steel frame pass through magnetic field then can energize high power and save energy of motor.

Powerful and smooth speed

Due to high efficiency design focused on high acceleration torque and die-cast rotor of rather small moment of inertia, enables smooth starting and stopping.

Low vibration and low noise

Our high technology equipment, the ample rigidity, precise machining of each part and exact balancing of electrical design which makes MEATH motor have low vibration and low noise.

IP55 degrees of protection

Dust and water jet proof structure of both motor and brake body is excellent for operation at outdoor or dusty site.

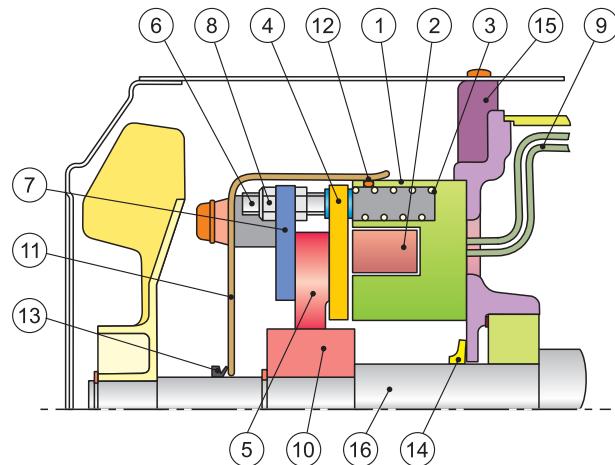
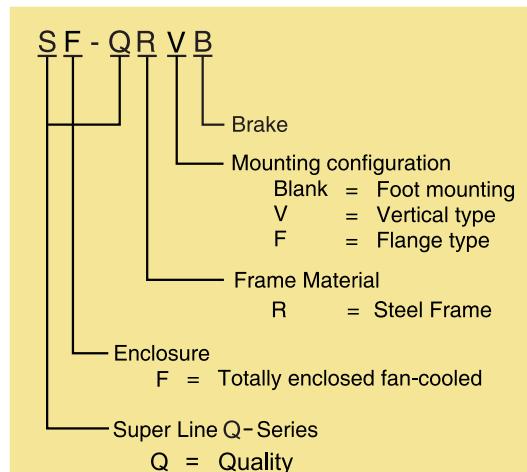
Efficiency class guarantee

The optimized electrical design and the material with low generation loss are used for core that make MITSUBISHI ELECTRIC AUTOMATION (THAILAND) guarantee "IE1" efficiency class on three phase motor.

Brake Structure

(1)	Fixed core	(9)	Brake lead wire
(2)	Coil	(10)	Hub
(3)	Braking spring	(11)	Brake cover
(4)	Armature	(12)	O-ring
(5)	Disc (lining)	(13)	V-ring
(6)	Stopper bolt	(14)	Fringer
(7)	Brake plate	(15)	Motor bracket
(8)	Nut (for adjustment)	(16)	Motor shaft

Significance of type designations



The brake's fixed core (1) and coil (2) are relative to the armature (4) fixed with installation screws to the bracket (15) on the motor's counter-load side. Braking spring (3) is mounted on the fixed core (1). The disc (5) is installed on the motor shaft (16) via the hub (10). Stopping bolt (6) fixes the brake plate (7) with the nut (8) that is used to adjust the gap (g) between the armature (4) and fixed core (1). The brake cover (11) is fixed to the brake plate (7) with the screw to protect brake body from water. O-ring (12) between brake cover (11) and fixed core (1) prevent dripping water from seeping inside the brake. V-ring (13) and fringer (14) those rotate with shaft shake the water dripping off before seeping inside the brake and motor.

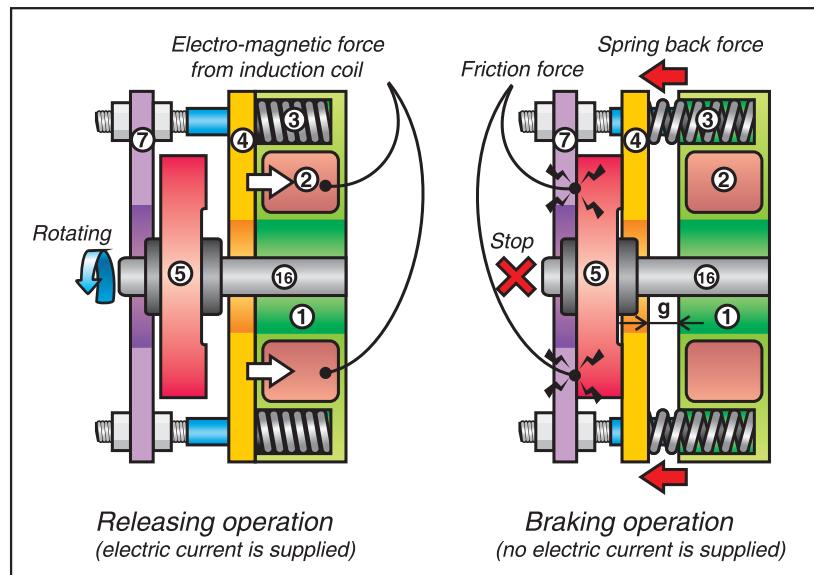
Brake operation

RELEASING OPERATION

When electric current is supplied to the coil(2), the electro-magnetic force is occurred. This effects the armature(4) overcomes pressing force of braking spring(3) so the armature(4) is attracted to the fixed core(1). The gap(g) is disappeared and a clearance is formed between the armature(4) and disc(5), freeing the disc(5) and releasing the brake. In this state, the motor shaft(16) can be rotated.

BRAKING OPERATION

When the electric current to the coil(2) is shut off, there is not electromagnetic force. The armature(4) is released and pressed back by force of braking spring(3). The armature(4) presses the disc(5) against brake plate(7) surface and braking are applied with frictional torque. In this manner, when the fixed core(1) is in the non-excited state, the brake is always applied.



Characteristics and performance

LT (220/380/415V 50Hz) SF-QRB / SF-QRFB / SF-QRVB 1/4HP ~ 10HP

Pole	Frame No.	Output		Brake Type	100% Load											
					220V 50Hz				380V 50Hz				415V 50Hz			
		HP	kW		I(A)	Eff(%)	PF	Speed (min ⁻¹)	I(A)	Eff(%)	PF	Speed (min ⁻¹)	I(A)	Eff(%)	PF	Speed (min ⁻¹)
4	63M	1/4	0.2	TB-2	1.10	70.2	0.67	1430	0.65	70.2	0.67	1430	0.69	67.4	0.60	1440
	71M	1/2	0.4	TB-A0.4	2.00	73.3	0.73	1400	1.14	73.3	0.73	1400	1.18	72.0	0.66	1420
	80M	1	0.75	TB-A0.75	3.20	76.7	0.81	1400	1.85	76.7	0.81	1400	1.80	78.0	0.74	1410
	90L	2	1.5	TB-A1.5	6.1	83.0	0.79	1430	3.5	83.0	0.79	1430	3.5	83.5	0.72	1440
	100L	3	2.2	TB-A2.2	8.7	79.7	0.84	1420	5.0	79.7	0.84	1420	4.9	79.7	0.78	1440
	112M	5	3.7	TB-A3.7	14.0	83.1	0.84	1430	8.1	83.1	0.84	1430	8.0	83.2	0.77	1450
	132S	7.5	5.5	TB-A7.5	20.2	84.7	0.84	1450	11.7	84.7	0.84	1450	11.6	84.7	0.77	1460
	132M	10	7.5	TB-A7.5	26.8	86.0	0.85	1450	15.5	86.0	0.85	1450	15.0	86.2	0.80	1460
6	71M	1/4	0.2	TB-A0.4	1.23	64.5	0.65	920	0.71	64.5	0.65	920	0.74	63.5	0.58	930
	80M	1/2	0.4	TB-A0.75	2.23	68.2	0.69	920	1.28	68.2	0.69	920	1.30	69.0	0.61	930
	90L	1	0.75	TB-A1.5	4.0	76.6	0.64	960	2.3	76.6	0.64	960	2.3	76.3	0.59	965
	100L	2	1.5	TB-A2.2	7.4	76.4	0.69	940	4.3	76.4	0.69	940	4.5	76.1	0.61	940
	112M	3	2.2	TB-A3.7	9.7	77.7	0.76	940	5.6	77.7	0.76	940	5.4	79.0	0.70	950
	132S	5	3.7	TB-A7.5	14.5	81.8	0.80	950	8.4	81.8	0.80	950	8.3	81.5	0.74	960
	132M	7.5	5.5	TB-A7.5	21.3	83.1	0.80	950	12.3	83.1	0.80	950	12.3	83.1	0.73	950

NOTE : Characteristic and performance data in this table is applied on motor only, when doesn't equip with brake set.

Brake Characteristic

Brake type	Rated damping torque (N·m)	Allowable damping equivalent (kJ/min)	Electromagnetic characteristic (20°C)		Electromagnetic stroke		Brake motor inertia * J (kg·m ²)	
			Input (W)	Current (DC A)	Initial (mm)	Adjustable limit (mm)	4 pole	6 pole
TB-2	2	2.3	23	0.18	0.15	0.4	0.0010	
TB-A0.4	4	2.9	26	0.19	0.15	0.4	0.0015	
TB-A0.75	7.5	3.2	40	0.24	0.15	0.5	0.0028	
TB-A1.5	15	5.1	38	0.3	0.2	0.5	0.0078	
TB-A2.2	22	7.2	43	0.34	0.2	0.5	0.0088	0.0089
TB-A3.7	37	10.1	55	0.44	0.2	0.55	0.0161	0.0171
TB-A7.5	132S	75	250/17**	2.0/0.55**	0.25	1.2	0.0341	0.0346
	132M						0.0417	0.0466

* Brake motor inertia includes motor driven shaft inertia and brake inertia

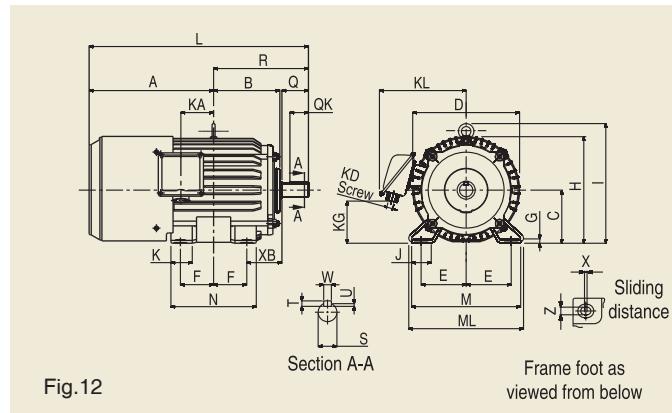
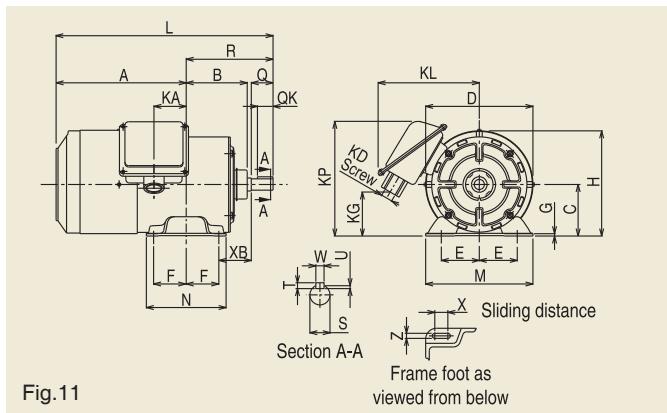
** The first number is the transient value in stat time, the second number is at steady state

SF-QRB 1/4HP~10HP HONRIZONTAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QRB 3HP 4P 100L



Dimensions (mm)

Model	Frame No.	Output HP (kW)		Brake type	Fig.	Motor																	
		4-Pole	6-Pole			A	B	C*	D	E	F	G	H	I	J	K	L	M	ML	N	X	XB	Z
SF-QRB	63M	1/4(0.2)	-	TB-2	11	173	73.6	63	127.6	50	40	2.3	126.9	-	-	-	276	135	-	100	12	40	7
	71M	1/2(0.4)	1/4(0.2)	TB-A0.4		178.5	83	71	149.2	56	45	3.2	145.6	-	-	-	298.5	148	-	110	18	45	7
	80M	1(0.75)	1/2(0.4)	TB-A0.75		191	98	80	163.2	62.5	50	3.2	161.6	-	-	-	331	160	-	125	15	50	9
	90L	2(1.5)	1(0.75)	TB-A1.5		218.5	117	90	185.2	70	62.5	4	182.6	-	-	-	387	175	-	150	15	56	9
	100L	3(2.2)	2(1.5)	TB-A2.2	12	250	131	100	205	80	70	6.5	203.5	230	40	45	443	200	212	180	4	63	12
	112M	5(3.7)	3(2.2)	TB-A3.7		262	138	112	223.8	95	70	6.5	226	253	40	45	462	230	242	180	4	70	12
	132S	7.5(5.5)	5(3.7)	TB-A7.5		287.5	155	132	263.8	108	70	6.5	265	288	40	45	526.5	256	268	180	4	89	12
	132M	10(7.5)	7.5(5.5)	TB-A7.5		306.5	174	132	263.8	108	89	6.5	265	288	40	45	564.5	256	268	218	4	89	12

0

* The perpendicular variation of tolerance for the shaft center is -0.5

Model	Frame No.	Terminal box					Shaft end						Bearing No.			Approx. weight (kg)		Approx. packing dimension (LxWxH)	Packing weight (kg)	
		KA	KG	KD	KL	KP**	Q	QK	R	S	T	U	W	Drive end	Opposite	4-Pole	6-Pole	4-Pole	6-Pole	
SF-QRB	63M	38.4	69	PF 1/2	153	175	23	20	103	11 h6	4	2.5	4	6201ZZ	6201ZZ	8	-	315 x 270 x 206	8.7	-
	71M	44.5	53	PF 1/2	165	168	30	25	120	14 j6	5	3	5	6202ZZ	6202ZZ	11	11	315 x 270 x 206	11.7	11.7
	80M	39.5	32	PF 3/4	167	-	40	32	140	19 j6	6	3.5	6	6204ZZ	6204ZZ	15	15	368 x 280 x 226	16	16
	90L	53	46	PF 3/4	180	-	50	40	168.5	24 j6	7	4	8	6205ZZ	6205ZZ	25	24	430 x 355 x 300	26	25
	100L	65	59	PF 3/4	192	-	60	45	193	28 j6	7	4	8	6206ZZ	6205ZZ	32	33	579 x 435 x 347	40	41
	112M	69	74	PF 3/4	203	-	60	45	200	28 j6	7	4	8	6207ZZ	6206ZZ	42	45	579 x 435 x 347	50	53
	132S	75	84	PF 1	242	-	80	63	239	38 k6	8	5	10	6308ZZ	6207ZZ	65	60	650 x 450 x 370	74	69
	132M	94	84	PF 1	242	-	80	63	258	38 k6	8	5	10	6308ZZ	6207ZZ	73	72	650 x 450 x 370	82	81

** This dimension is for model which KP > H only.

SF-QRFB 1/4HP~10HP FLANGE TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QRFB 7.5HP 4P 132S

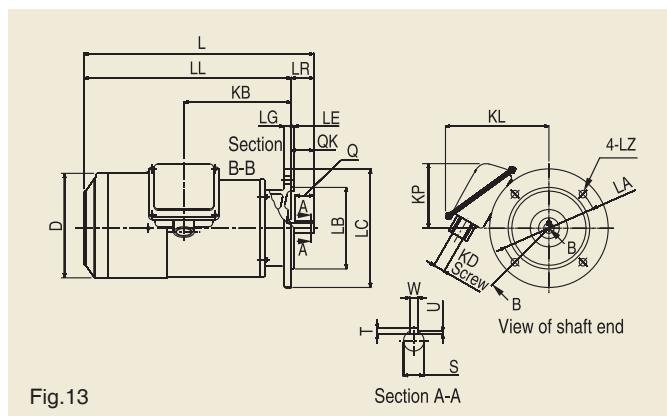


Fig.13

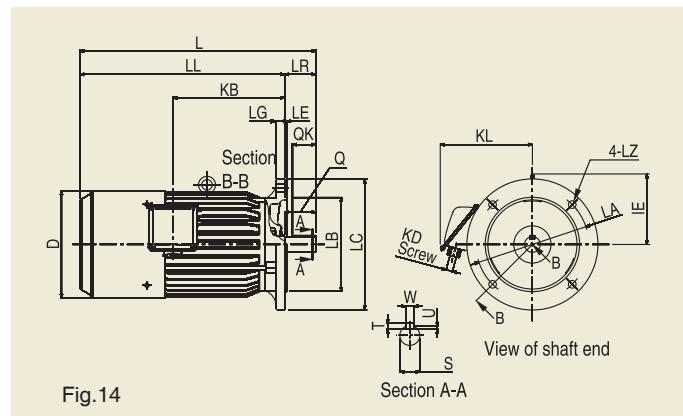


Fig.14

Dimensions (mm)

Model	Frame No.	Output HP (kW)		Brake type	Fig.	Motor										Terminal box			
		4-Pole	6-Pole			D	IE	LA	LB	LC	LE	LG	LL	LZ	L	KB	KD	KL	KP*
SF-QRFB	63M	1/4(0.2)	-	TB-2	13	127.6	-	130	110 j6	160	3.5	10	259.5	10	282.5	125	PF 1/2	153	112
	71M	1/2(0.4)	1/4(0.2)	TB-A0.4		149.2	-	130	110 j6	160	3.5	10	279	10	309	145	PF 1/2	165	97
	80M	1(0.75)	1/2(0.4)	TB-A0.75		163.2	-	165	130 j6	200	3.5	12	295	12	335	143.5	PF 3/4	167	-
	90L	2(1.5)	1(0.75)	TB-A1.5		185.2	-	165	130 j6	200	3.5	12	364	12	414	198.5	PF 3/4	180	-
	100L	3(2.2)	2(1.5)	TB-A2.2	14	205	130	215	180 j6	250	4	16	398	14.5	458	213	PF 3/4	192	-
	112M	5(3.7)	3(2.2)	TB-A3.7		223.8	141	215	180 j6	250	4	16	432	14.5	492	239	PF 3/4	203	-
	132S	7.5(5.5)	5(3.7)	TB-A7.5		263.8	156	265	230 j6	300	4	20	468.5	14.5	548.5	256	PF 1	242	-
	132M	10(7.5)	7.5(5.5)	TB-A7.5		263.8	156	265	230 j6	300	4	20	506.5	14.5	586.5	294	PF 1	242	-

* This dimension is for model which KP > LC/2 only.

Model	Frame No.	Shaft end						Bearing No.		Approximate weight (kg)		Approximate packing dimension (LxWxH)	Packing weight (kg)		
		LR	Q	QK	S	T	U	W	Drive end	Opposite	4-Pole	6-Pole	4-Pole	6-Pole	
SF-QRFB	63M	23	23	20	11 h6	4	2.5	4	6201ZZ	6201ZZ	9	-	368 x 280 x 226	10	-
	71M	30	30	25	14 j6	5	3	5	6202ZZ	6202ZZ	12	12	368 x 280 x 226	13	13
	80M	40	40	32	19 j6	6	3.5	6	6204ZZ	6204ZZ	18	18	425 x 280 x 226	19	19
	90L	50	50	40	24 j6	7	4	8	6205ZZ	6205ZZ	27	26	507 x 401 x 357	34	33
	100L	60	60	45	28 j6	7	4	8	6206ZZ	6205ZZ	36	37	650 x 450 x 370	45	46
	112M	60	60	45	28 j6	7	4	8	6207ZZ	6206ZZ	46	49	650 x 450 x 370	55	58
	132S	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	73	68	650 x 450 x 370	82	77
	132M	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	81	80	650 x 450 x 370	90	89

SF-QRVB 1/4HP~10HP VERTICAL TYPE

TOTALLY ENCLOSED FAN-COOLED TYPE, IP55 DEGREES OF PROTECTION



SF-QRVB 1/2HP 4P 71M

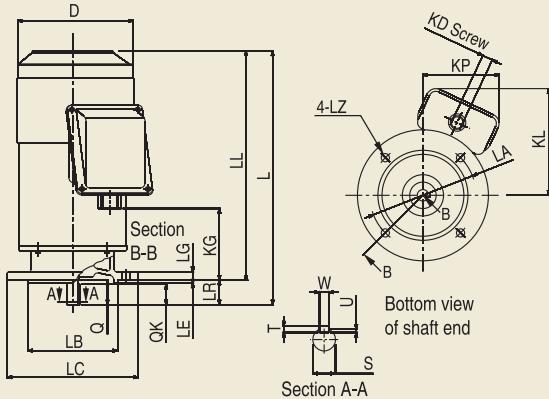


Fig.15

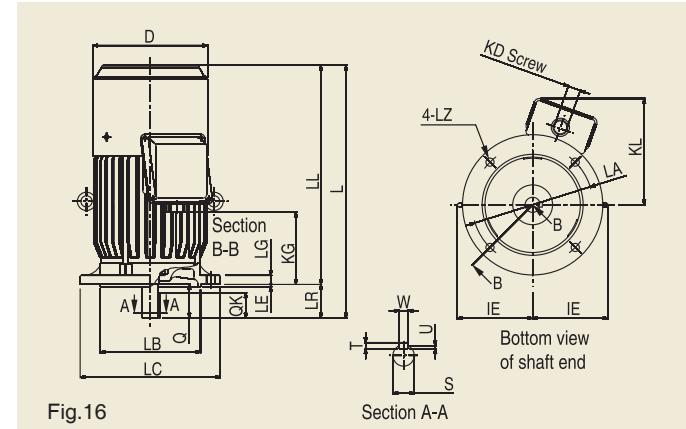


Fig.16

Dimensions (mm)

Model	Frame No.	Output HP (kW)		Brake type	Fig.	Motor									Terminal box				
		4-Pole	6-Pole			D	IE	LA	LB	LC	LE	LG	LL	LZ	L	KG	KD	KL	KP*
SF-QRVB	63M	1/4(0.2)	-	TB-2	15	127.6	-	130	110 j6	160	3.5	10	259.5	10	282.5	42	PF 1/2	144	133
	71M	1/2(0.4)	1/4(0.2)	TB-A0.4		149.2	-	130	110 j6	160	3.5	10	279	10	309	62	PF 1/2	159	120
	80M	1(0.75)	1/2(0.4)	TB-A0.75		163.2	-	165	130 j6	200	3.5	12	295	12	335	61	PF 3/4	163	-
	90L	2(1.5)	1(0.75)	TB-A1.5		185.2	-	165	130 j6	200	3.5	12	364	12	414	116	PF 3/4	176	-
	100L	3(2.2)	2(1.5)	TB-A2.2	16	205	130	215	180 j6	250	4	16	398	14.5	458	130	PF 3/4	189	-
	112M	5(3.7)	3(2.2)	TB-A3.7		223.8	141	215	180 j6	250	4	16	432	14.5	492	156	PF 3/4	199	-
	132S	7.5(5.5)	5(3.7)	TB-A7.5		263.8	156	265	230 j6	300	4	20	468.5	14.5	548.5	156	PF 1	238	-
	132M	10(7.5)	7.5(5.5)	TB-A7.5		263.8	156	265	230 j6	300	4	20	506.5	14.5	586.5	194	PF 1	238	-

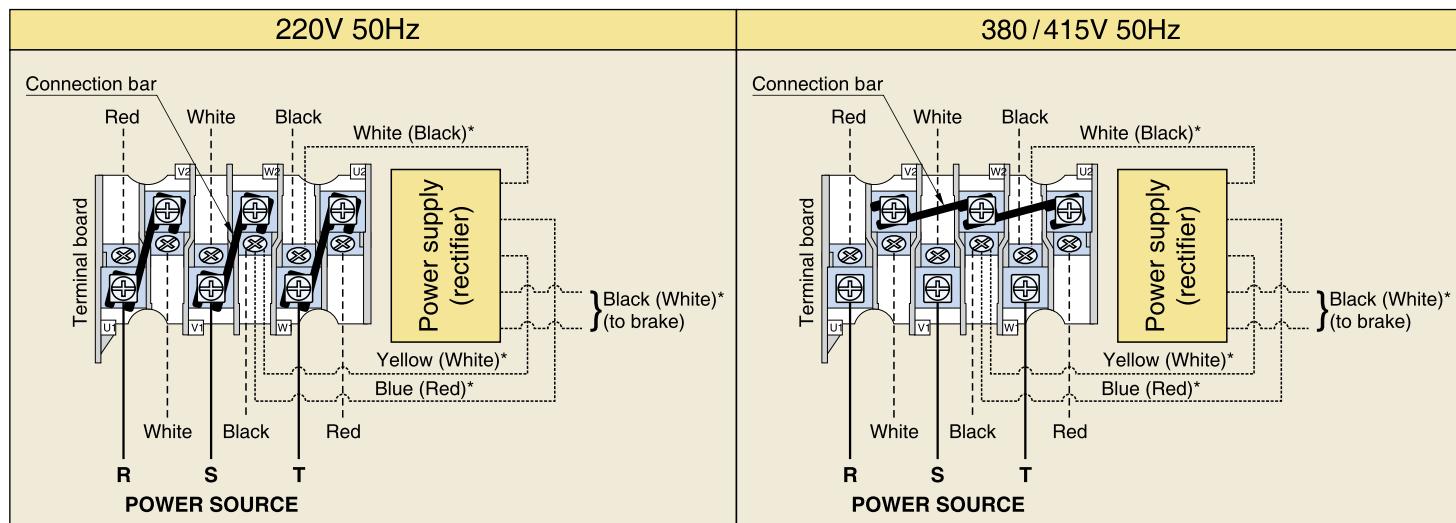
* This dimension is for model which KP > LC/2 only.

Model	Frame No.	Shaft end						Bearing No.		Approximate weight (kg)		Approximate packing dimension (LxWxH)	Packing weight (kg)		
		LR	Q	QK	S	T	U	W	Drive end	Opposite	4-Pole	6-Pole	4-Pole	6-Pole	
SF-QRVB	63M	23	23	20	11 h6	4	2.5	4	6201ZZ	6201ZZ	9	-	368 x 280 x 226	10	-
	71M	30	30	25	14 j6	5	3	5	6202ZZ	6202ZZ	12	12	368 x 280 x 226	13	13
	80M	40	40	32	19 j6	6	3.5	6	6204ZZ	6204ZZ	18	18	425 x 280 x 226	19	19
	90L	50	50	40	24 j6	7	4	8	6205ZZ	6205ZZ	27	26	507 x 401 x 357	34	33
	100L	60	60	45	28 j6	7	4	8	6206ZZ	6205ZZ	36	37	650 x 450 x 370	45	46
	112M	60	60	45	28 j6	7	4	8	6207ZZ	6206ZZ	46	49	650 x 450 x 370	55	58
	132S	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	73	68	650 x 450 x 370	82	77
	132M	80	80	63	38 k6	8	5	10	6308ZZ	6207ZZ	81	80	650 x 450 x 370	90	89

Standard Specifications

Item		Specifications				
Motor	Voltage and frequency	LT: 220/380/415V 50Hz				
	Enclosure construction	Totally enclosed fan cooled type				
	Degrees of protection	IP55				
	Method of cooling	IC411				
	Rating	S1 (continuous)				
	Model	Construction	Horizontal	Flange		
		Type	SF-QRB	SF-QRFB		
	Frame No.	63M~132M				
	Output HP (kW)	4 pole	1/4(0.2)~10(7.5)			
		6 pole	1/4(0.2)~7.5(5.5)			
	Frame material	Steel plate				
	Thermal class	155 (F)				
	Terminal	6 lead wires with terminal block				
	Direction of rotation	Counterclockwise (CCW), viewed from shaft-end side				
	Circumstance conditions	Ambient temperature	-20 ~ +40 °C			
		Ambient humidity	95% RH or less			
		Altitude	1,000m above sea level or less			
		Environment	No bursting/erosive gas or vapor			
	Coating color	Munsell N1.5 (Black)				
	Conformed standard	IEC 60034-1, IEC 60034-30-1				
Brake	Damping system	Non-excited damping type (spring damping type)				
	Damping torque	2~75 N·m (150%)				
	Voltage and frequency	AC 220V 50Hz (brake with rectifier)				
	Thermal class	155 (F)				
	Mechanical life	More than 1 million operations				
	Conformed standard	TES 1111				

Connection



----- Motor's lead wire

----- Rectifier's lead wire

— Power source's lead wire

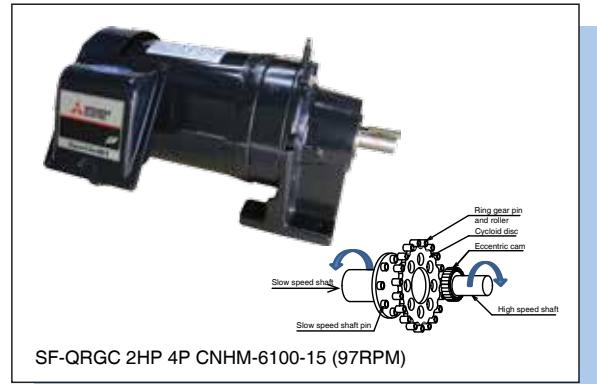
* Color of rectifier's lead wire in () is for 132S, 132M motor.

Note: 1. Y-△ starting is not allowable.

2. The difference of these 2 cases of connection is only at connection bar position.

Special motor

MEATH is also the manufacturer of special purpose motors for specific applications. The following are some of the special motors we have designed and are now manufacturing.



Gear motor-Helical

High performance cooling structure of steel motor frame integrated with RGC.(Round-bar Gear cutting : gear cutting after heat treatment) technology and precision cutting, make the product to be compact and lightweight, suitable for install with limited space machine.



Gear motor-Cyclo Drive

Cyclo drive speed reducer assembled to MEATH IP55 standard motor is able to absorb 500% shock load without damage.



Spindle motor

For applications which requires extremely low vibration, such as spindling, each part of motor should be balanced carefully. MEATH also provided motors with low vibration degree of V-3



Elevator motor

Flange type motor with drip-proof enclosure and double shaft construction. One side is tapered to install with gear and the other side to install with encoder.



Import motor

Imported motors output since 100HP (75kW) and up for heavy duty work and supports all requirements.

Special design

MEATH can design special motors both electrical design and mechanical design for specific user according to the needs of a variety of customers, such as 200V, OPP, Inverter, V3, V5 etc.



MITSUBISHI ELECTRIC AUTOMATION (THAILAND) CO., LTD.



MEATH-M-0524-C1

Specifications subject to change without notice.