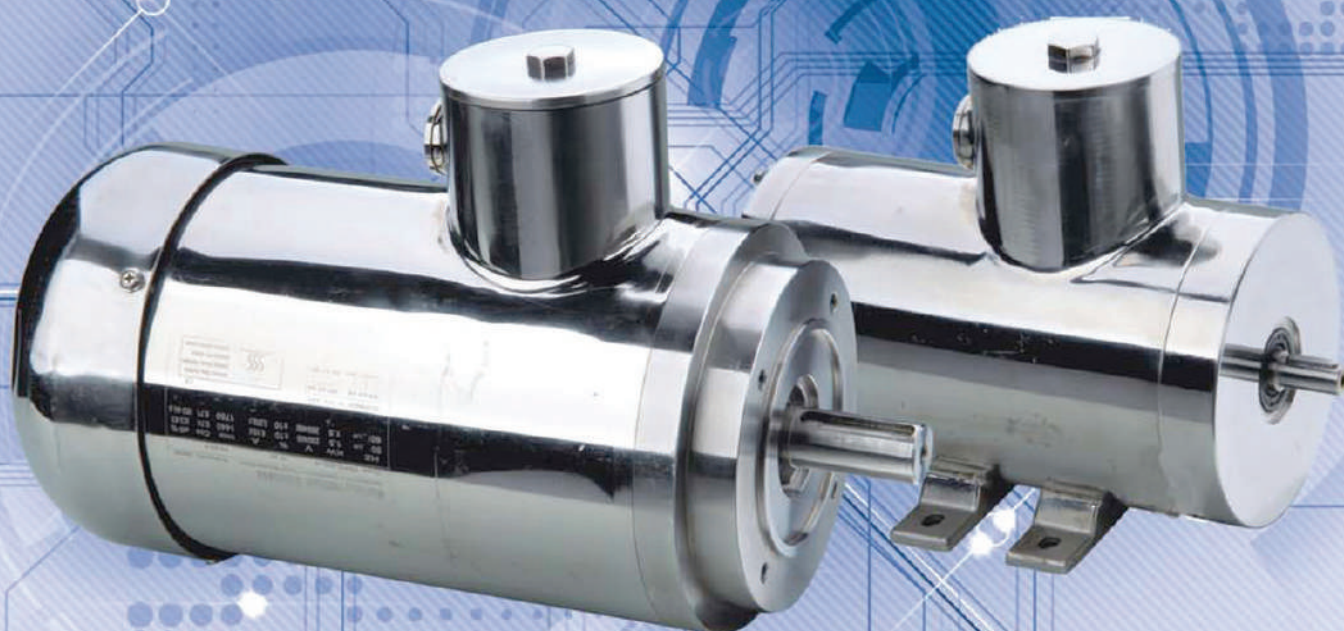


MANUAL OF STAINLESS STEEL MOTOR



EQM INDUSTRIAL

Optimising Your Equipment's Performance



AQUA-TECH SERIES PRODUCTS THE BEST WORLDWIDE

The AQUA-TECH SERIES of stainless steel motor, which have special features, performance and value, top notch features make AQUA-TECH SERIES products the best worldwide influence. It includes NEMA and IEC standard motor which has per different manufacture standard.

NEMA Stainless steel motors have the detail specifications as follows:

NO	POWER	FRAME
1	1/3HP-2HP TEFC, TENV 3-PH	56C Foot (Footless)
2	3HP-5HP TEFC, TENV 3-PH	182TC, 184TC Foot (Footless)
3	7.5HP-20HP TEFC 3-PH	213-256TC Foot (Footless)
4	1/3HP-5HP JM/JP TEFC, TENV 3-PH	56C-184TC Foot (Footless)
5	7.5HP-20HP JM/JP TEFC 3-PH	213-256TC Foot (Footless)

IEC Stainless steel motor have the detail specifications as follows:

NO	FRAME	KW	MOUNTING	IP
1	63	0.18	B3, B5, B14, B34, B35	IP55
2	71	0.25, 0.37		
3	80	0.55, 0.75		
4	90	1.1, 1.5		
5	100	2.2, 3.0		
6	112	4.0		
7	132	5.5, 7.5		

It is also available if you have any special requirements on motor.



SPECIAL FEATURES OF STAINLESS STEEL MOTOR

一、Special advanced stator AQUA-TECH insulation system

1、EFFICIENCY:

- ① NEMA Stainless steel motor ,Exceeds NEMA EPACT Efficiency standards.
- ② IEC standard motor: As per 60034-30-2008 Euro standard.

2、Variable speed capability: Rated 20HZ to 80 HZ capable.

3、Thermistors as standard: PTC style thermistors for early detection of excessive temperature rise.

4、Noise Levels: DBA noise is the lowest in industry.

二、Frame construction

1、Stainless steel Frame: High polished Premium 304 Material.

2、Welding Technique: Precision Robotic TIG welded inside the frame without welds vestige outside.

3、Extra deep rabbetted fits: Extra deep rabbetted for 100% concentricity and sealing (explosion proof tolerances)

三、End-shield Construction

1、Stainless steel Endshield: Precision Machined from premium 304 stainless steel and end-shield is fitted by long bolts, it is easily to disassembly.

2、Housing: The housing which matched with convex bolt and stainless steel thread, nice looking and easily disassembly.

3、EXTRA DEEP TREATMENT: Special "O" rings proprietary submersible style "O" ring construction on the end shields for double the protection against entry of water.

四、Terminal box

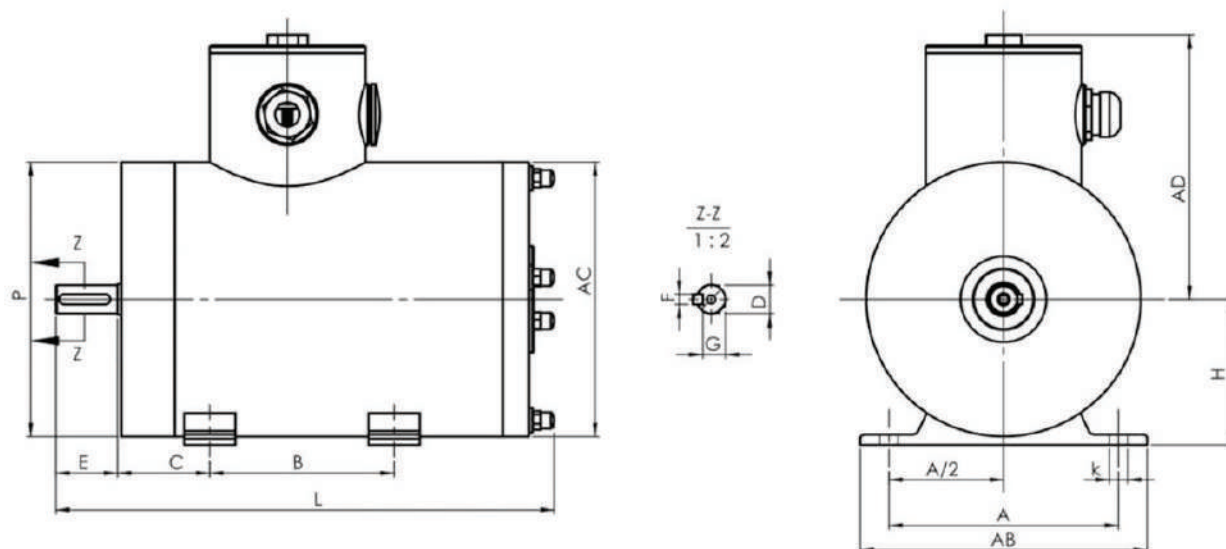
1、Frame to conduit box: Epoxy Encapsulated head entrance conduit box to positively keep chemicals and moisture from entering motor.

2、Conduit box cover: Conduit box cover with seal simply twists on or off for quick and easy installation and maintains.

3、Entrance Connector: IP55 submersible style cable gland is provided as standard.



Frame size 63 to 90-B3 Foot mounted-TENV

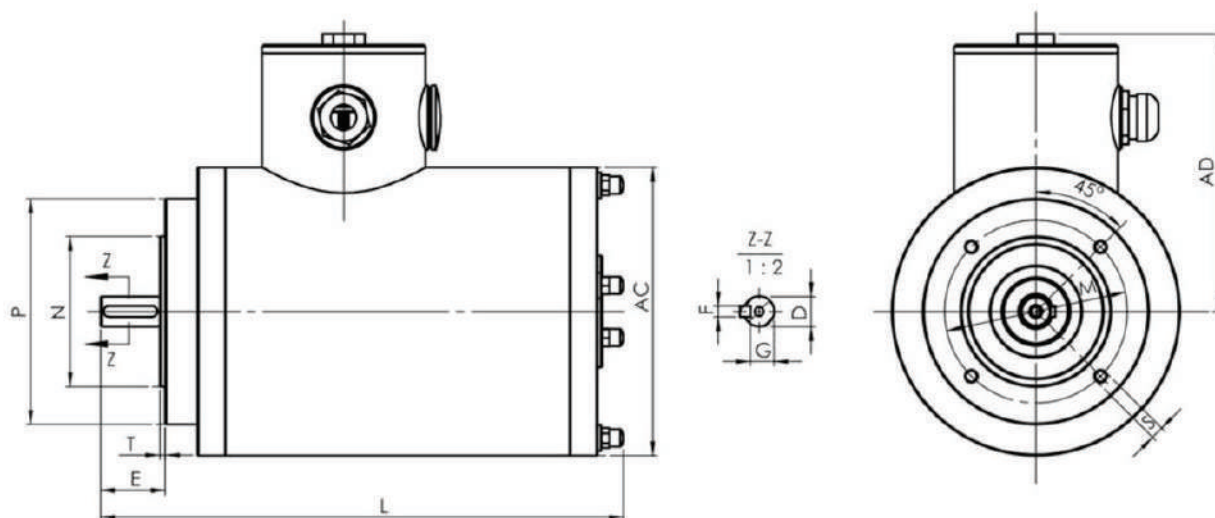


Frame Type	Poles	A	A/2	B	C	D	E	F	G	H	K	P	Shaft Hole	AB	AC	AD
63	2,4	100	50	80	40	11	23	4	8.5	63	7	114	M4	125	114	117
71	2,4,6	112	56	90	45	14	30	5	11	71	7	134	M5	140	134	129
80	2,4,6	125	62.5	100	50	19	40	6	15.5	80	10	144	M6	150	144	135
90S	2,4,6	140	70	100	56	24	50	8	20	90	9	164	M8	164	164	147

unit:mm



Frame size 63 to 90-B14 Face mounted-TENV

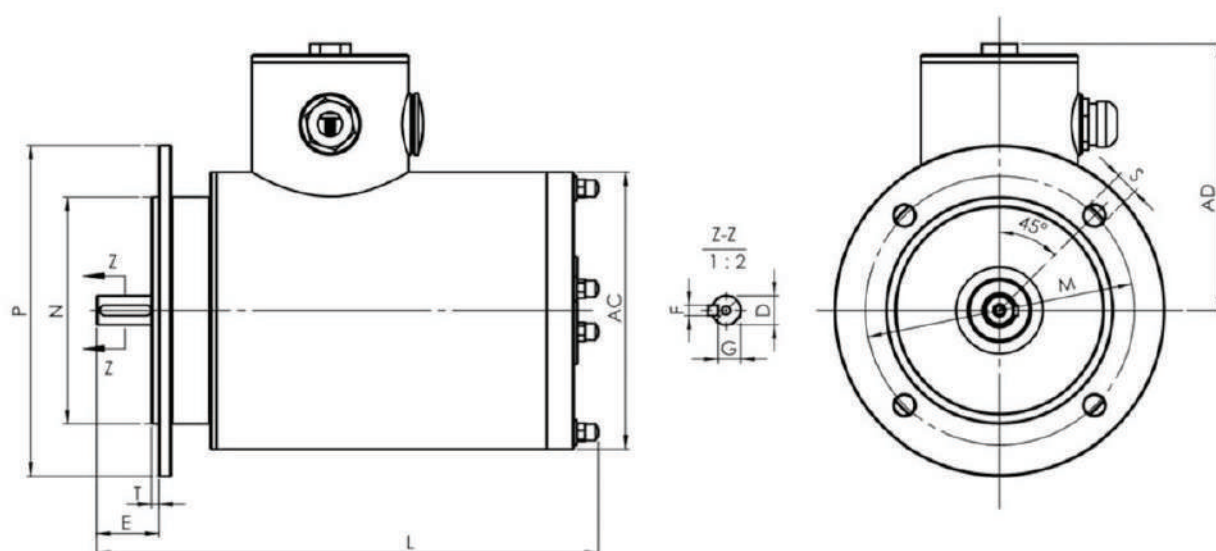


Shaft Hole	Flange type	Poles	D	E	F	G	M	N	P	R	S	T	Flange Hole	Shaft Hole	AC	AD
63	FT75	2,4	11	23	4	8.5	75	60	90	0	M5	2.5	4	M4	114	117
71	FT85	2,4,6	14	30	5	11	85	70	105	0	M6	2.5	4	M5	134	129
80	FT100	2,4,6	19	40	6	15.5	100	80	120	0	M6	3	4	M6	144	135
90	FT115	2,4,6	24	50	8	20	115	95	140	0	M8	3	4	M8	164	147

unit:mm



Frame size 63 to 90-B5 Flange mounted-TENV

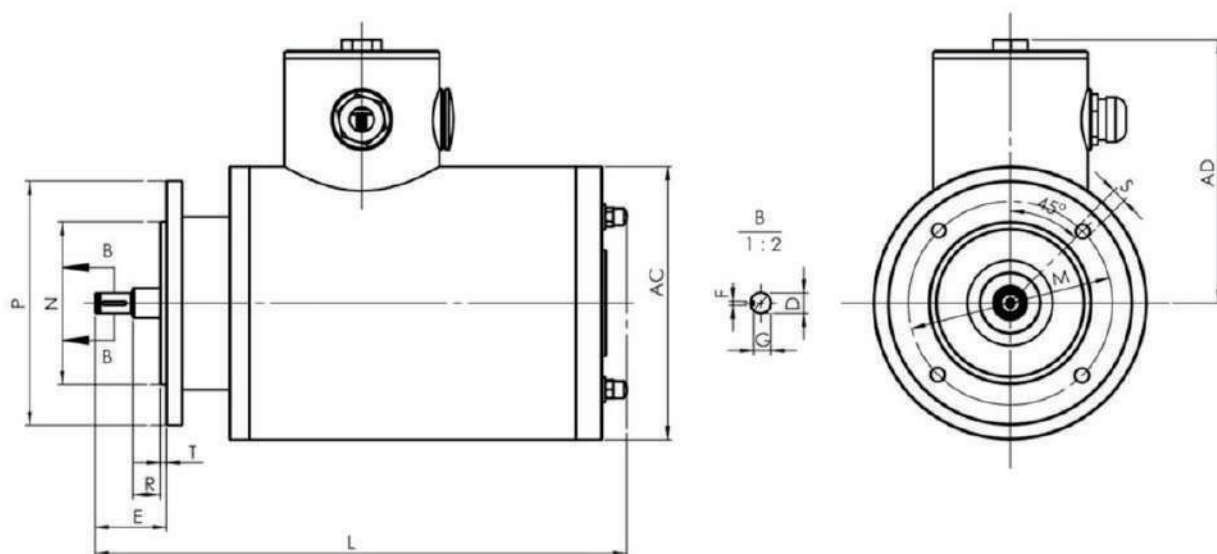


Shaft Hole	Flange type	Poles	D	E	F	G	M	N	P	R	S	T	Flange Hole	Shaft Hole	AC	AD
63	FF115	2,4	11	23	4	8.5	115	95	140	0	10	2.5	4	M4	114	117
71	FF130	2,4,6	14	30	5	11	130	110	160	0	10	2.5	4	M5	134	129
80	FF165	2,4,6	19	40	6	15.5	165	130	200	0	12	3.5	4	M6	144	135
90	FF165	2,4,6	24	50	8	20	165	130	200	0	12	3.5	4	M8	164	147

unit:mm



SEW motor frame size 71 to 80-B5T Flange mounted-TENV



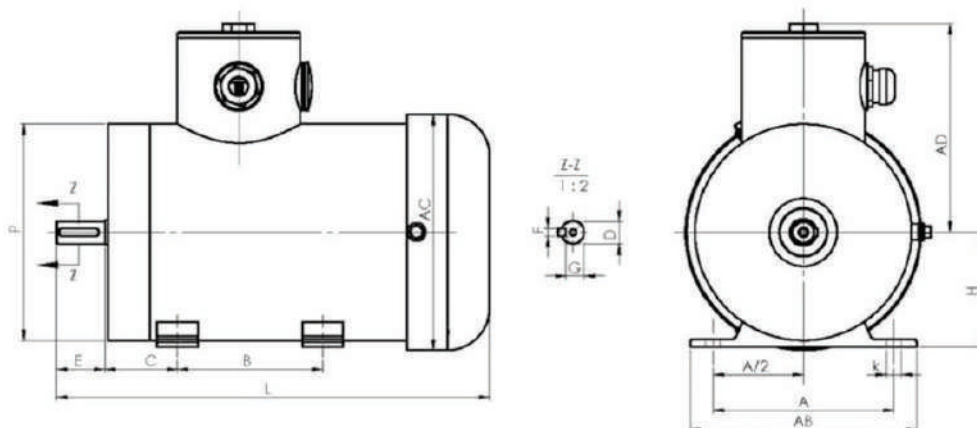
Shaft Hole	Flange type	Poles	D	E	F	G	M	N	P	R	S	T	Flange Hole	AC	AD
71	B5T	4	10	35	2	8.6	100	80	120	16.5	7	3	4	134	129
80	B5T	4	12	35	3	10	100	80	120	14.5	7	3	4	144	135

unit:mm



IEC

Frame size 71 to 132 - B3 Foot mounted - TEFC

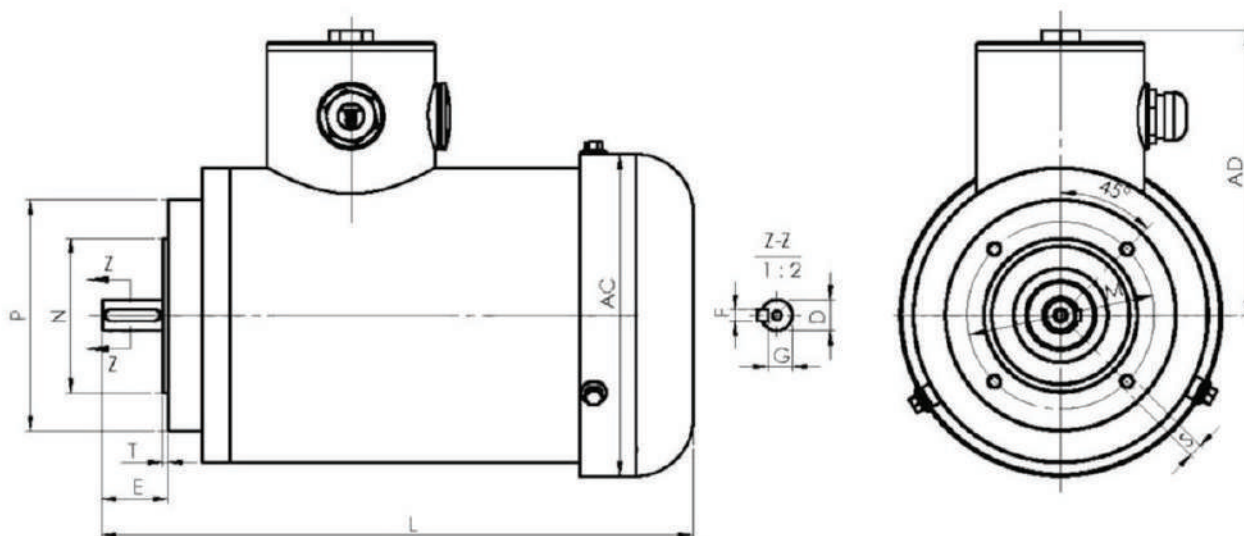


Frame Type	Poles	A	A/2	B	C	D	E	F	G	H	K	P	Shaft Hole	AB	AC	AD
71	2,4,6	112	56	90	45	14	30	5	11	71	7	134	M5	140	146	129
80	2,4,6	125	62.5	100	50	19	40	6	15.5	80	10	144	M6	150	156	135
90S	2,4,6	140	70	100	56	24	50	8	20	90	9	164	M8	164	176	147
90L	2,4,6	140	70	125	56	24	50	8	20	90	9	164	M8	164	176	147
100	2,4,6	160	80	140	63	28	60	8	24	100	12	190	M10	190	203	169
112	2,4,6	190	95	140	70	28	60	8	24	112	12	206	M10	220	218	174
132S	2,4,6	216	108	140	89	38	80	10	33	132	12	244	M12	246	256	192
132M	2,4,6	216	108	178	89	38	80	10	33	132	12	244	M12	246	256	192

unit:mm



Frame size 71 to 132 - B14 Face mounted - TEFC

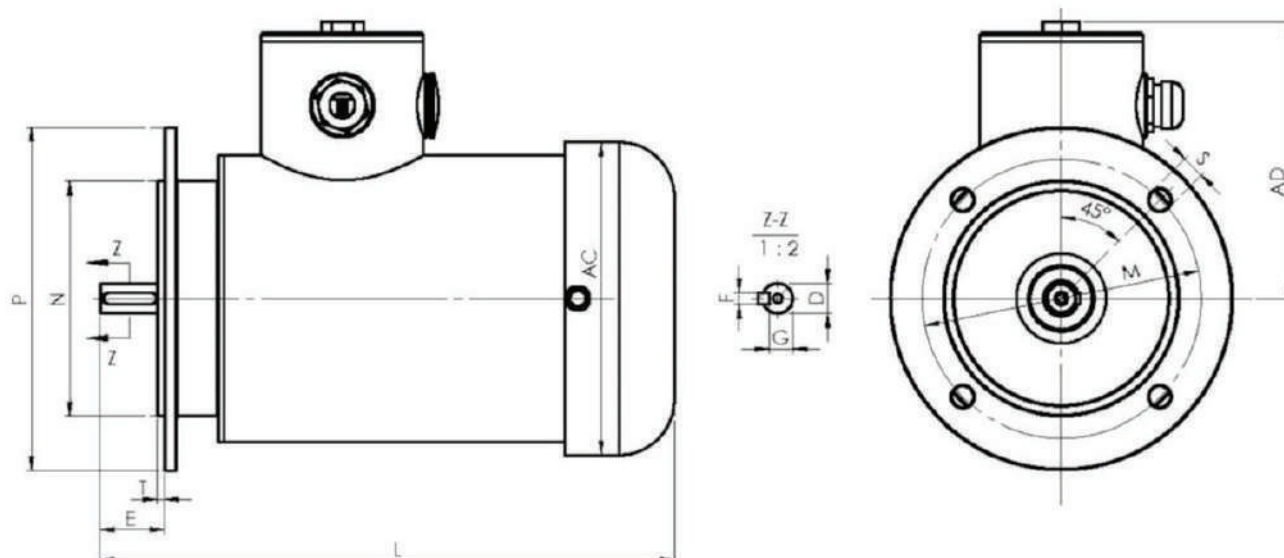


Frame Type	Flange type	Poles	D	E	F	G	M	N	P	R	S	T	Flange Hole	Shaft Hole	AC	AD
71	FT85	2,4,6	14	30	5	11	85	70	105	0	M6	2.5	4	M5	134	129
80	FT100	2,4,6	19	40	6	15.5	100	80	120	0	M6	3	4	M6	144	135
90	FT115	2,4,6	24	50	8	20	115	95	140	0	M8	3	4	M8	176	147
100	FT130	2,4,6	28	60	8	24	130	110	160	0	M8	3.5	4	M10	203	169
112	FT130	2,4,6	28	60	8	24	130	110	160	0	M8	3.5	4	M10	218	174
132	FT165	2,4,6	38	80	10	33	165	130	200	0	M10	3.5	4	M12	256	192

unit:mm



Frame size 71 to 132 - B5 Flange mounted - TEFC



Frame Type	Flange type	Poles	D	E	F	G	M	N	P	R	S	T	Flange Hole	Shaft Hole	AC	AD
71	FF130	2,4,6	14	30	5	11	130	110	160	0	10	3.5	4	M5	134	129
80	FF165	2,4,6	19	40	6	15.5	165	130	200	0	12	3.5	4	M6	144	135
90	FF165	2,4,6	24	50	8	20	165	130	200	0	12	3.5	4	M8	176	147
100	FF215	2,4,6	28	60	8	24	215	180	250	0	15	4	4	M10	203	169
112	FF215	2,4,6	28	60	8	24	215	180	250	0	15	4	4	M10	218	174
132	FF265	2,4,6	38	80	10	33	265	230	300	0	15	4	4	M12	256	192

unit:mm



Frame size 63 to 90-B3 Face mounted-TENV

Frame Type	Poles	Mounting	cooling	Power (KW)	L
63	2P	B3、 B14、 B5	TENV	0.18	212
			TENV	0.25	237
	4P	B3、 B14、 B5	TENV	0.18	237
71	2P	B3、 B14、 B5	TENV	0.37	243
			TENV	0.55	273
	4P	B3、 B14、 B5	TENV	0.25	243
			TENV	0.37	253
		B5T	TENV	0.25	261
			TENV	0.37	271
	6P	B3、 B14、 B5	TENV	0.18	253
			TENV	0.25	273
80	2P	B3、 B14、 B5	TENV	0.75	338
	4P	B3、 B14、 B5	TENV	0.55	308
			TENV	0.75	348
		B5T	TENV	0.55	313
			TENV	0.75	353
	6P	B3、 B14、 B5	TENV	0.37	308
			TENV	0.55	348
90	6P	B3、 B14、 B5	TENV	0.75	394

unit:mm



Frame size 70 to 132-B3、 B14、 B5 Face mounted-TEFC

Frame Type	Poles	Mounting	cooling	Power (KW)	L
71	4P	B3、 B14、 B5	TEFC	0.37	277
80	2P	B3、 B14、 B5	TEFC	0.75	338
		B3、 B14、 B5	TEFC	1.1	362
		B3、 B14、 B5	TEFC	1.5	377
	4P	B3、 B14、 B5	TEFC	0.75	332
90	2P	B3、 B14、 B5	TEFC	1.5	367
		B3、 B14、 B5	TEFC	2.2	391
	4P	B3、 B14、 B5	TEFC	1.1	351
		B3、 B14、 B5	TEFC	1.5	367
	6P	B3、 B14、 B5	TEFC	0.75	387
		B3、 B14、 B5	TEFC	1.1	417
100	2P	B3、 B14、 B5	TEFC	3	479
	4P	B3、 B14、 B5	TEFC	2.2	464
		B3、 B14、 B5	TEFC	3	509
	6P	B3、 B14、 B5	TEFC	1.5	489
112	2P	B3、 B14、 B5	TEFC	4	488
	4P	B3、 B14、 B5	TEFC	4	488
132	2P	B3、 B14、 B5	TEFC	5.5	506
		B3、 B14、 B5	TEFC	7.5	506
	4P	B3、 B14、 B5	TEFC	7.5	536
		B3、 B14、 B5	TEFC	5.5	511
	6P	B3、 B14、 B5	TEFC	4	536
		B3、 B14、 B5	TEFC	4	536

unit:mm



Frame Size	front bearing	rear bearing
63	6202	6202
71	6203	6203
80	6204	6204
90	6205	6205
100	6306	6306
112	6306	6306
132	6308	6208

unit:Inch