

YE3 Series Super High Efficiency Aluminum Frame Three Phase Induction Motors

➤ General Description



- Frame sizes: 63 to 160
- Voltage: 380V
- Poles: 2, 4, 6, 8
- Duty Cycle: S1
- Insulation class: F
- Rated output: 0.12 to 18.5kW
- Frequency: 50Hz or 60Hz
- Efficiency levels: IE3
- Enclosure: IC411 - TEFC
- Degree of protection: IP55

Applications: General purpose including cutting machines, pumps, fans, conveyors, machines tools of farm duty and food process.

Features: Beautiful profile, high efficiency and energy saving (Level 3 of GB18613-2020), class F insulation, IP55 protection grade, low noise, little vibration, reliable running.

➤ Performance Data

380V 50Hz

Model	Output kW	FLA	RPM	Eff. %	Power Factor	FLT N.m	$\frac{LRT}{FLT} \frac{T_{st}}{T_N}$	$\frac{LRA}{FLA} \frac{I_{st}}{I_N}$	$\frac{BDT}{FLT} \frac{T_{max}}{T_N}$	dB(A)
Synchronous speed 3000 r/min										
YE3-63M1-2	0.18	0.53	2720	63.9	0.80	0.63	2.2	5.5	2.2	61
YE3-63M2-2	0.25	0.70	2720	67.1	0.81	0.88	2.2	5.5	2.2	61
YE3-71M1-2	0.37	1.0	2740	69.0	0.81	1.29	2.2	6.1	2.2	62
YE3-71M2-2	0.55	1.4	2740	72.3	0.82	1.92	2.2	6.1	2.2	62
YE3-80M1-2	0.75	1.7	2870	80.7	0.82	2.50	2.2	7.0	2.3	62
YE3-80M2-2	1.1	2.4	2875	82.7	0.83	3.65	2.2	7.3	2.3	62
YE3-90S-2	1.5	3.2	2880	84.2	0.84	4.97	2.2	7.6	2.3	67
YE3-90L-2	2.2	4.6	2880	85.9	0.85	7.30	2.2	7.6	2.3	67
YE3-100L-2	3	6.0	2880	87.1	0.87	9.95	2.2	7.8	2.3	74
YE3-112M-2	4	7.8	2915	88.1	0.88	13.1	2.2	8.3	2.3	77
YE3-132S1-2	5.5	10.6	2935	89.2	0.88	17.9	2.0	8.3	2.3	79
YE3-132S2-2	7.5	14.4	2930	90.1	0.88	24.4	2.0	7.9	2.3	79
YE3-160M1-2	11	20.6	2950	91.2	0.89	35.6	2.0	8.1	2.3	81
YE3-160M2-2	15	27.9	2945	91.9	0.89	48.6	2.0	8.1	2.3	81
YE3-160L-2	18.5	34.2	2945	92.4	0.89	60.0	2.0	8.2	2.3	81

Performance Data

380V

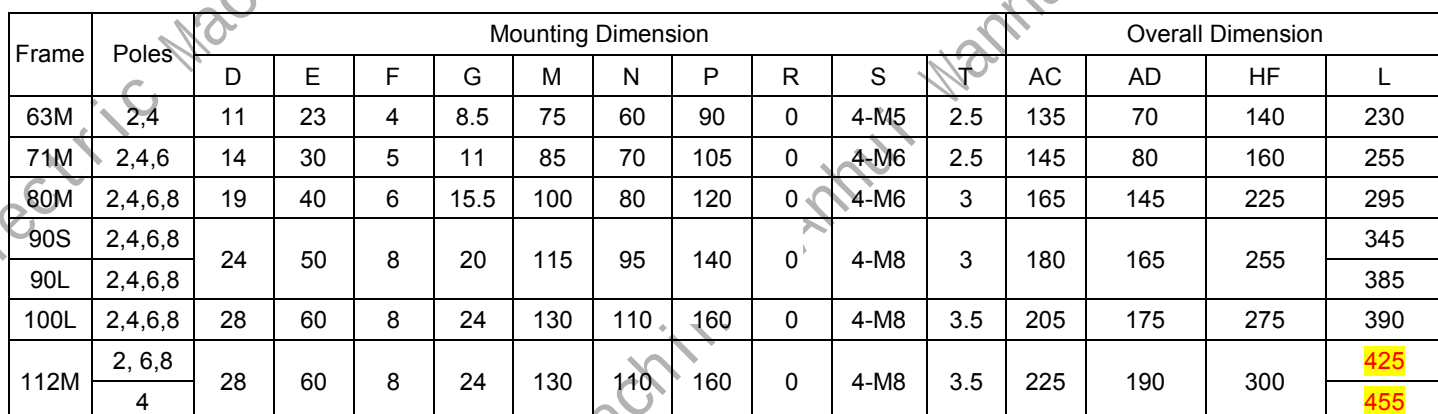
50Hz

Model	Output kW	FLA	RPM	Eff. %	Power Factor	FLT N.m	$\frac{LRT}{FLT}$ $\frac{Tst}{T_N}$	$\frac{LRA}{FLA}$ $\frac{Ist}{I_N}$	$\frac{BDT}{FLT}$ $\frac{Tmax}{T_N}$	dB(A)
Synchronous speed 1500 r/min										
YE3-63M1-4	0.12	0.45	1310	55.8	0.72	0.87	2.1	4.4	2.2	52
YE3-63M2-4	0.18	0.64	1310	58.6	0.73	1.31	2.1	4.4	2.2	52
YE3-71M1-4	0.25	0.81	1330	63.6	0.74	1.80	2.1	5.2	2.2	55
YE3-71M2-4	0.37	1.1	1330	65.3	0.75	2.66	2.1	5.2	2.2	55
YE3-80M1-4	0.55	1.4	1430	80.6	0.75	3.67	2.3	6.5	2.3	56
YE3-80M2-4	0.75	1.8	1430	82.5	0.75	5.01	2.3	6.6	2.3	56
YE3-90S-4	1.1	2.6	1430	84.1	0.76	7.35	2.3	6.8	2.3	59
YE3-90L-4	1.5	3.5	1430	85.3	0.77	10.0	2.3	7.0	2.3	59
YE3-100L1-4	2.2	4.8	1440	86.7	0.81	14.6	2.3	7.6	2.3	64
YE3-100L2-4	3	6.3	1440	87.7	0.82	19.9	2.3	7.6	2.3	64
YE3-112M-4	4	8.4	1455	88.6	0.82	26.3	2.2	7.8	2.3	65
YE3-132S-4	5.5	11.2	1465	89.6	0.83	35.9	2.0	7.9	2.3	71
YE3-132M-4	7.5	15.0	1465	90.4	0.84	48.9	2.0	7.5	2.3	71
YE3-160M-4	11	21.5	1470	91.4	0.85	71.5	2.0	7.7	2.3	73
YE3-160L-4	15	28.8	1470	92.1	0.86	97.4	2.0	7.8	2.3	73

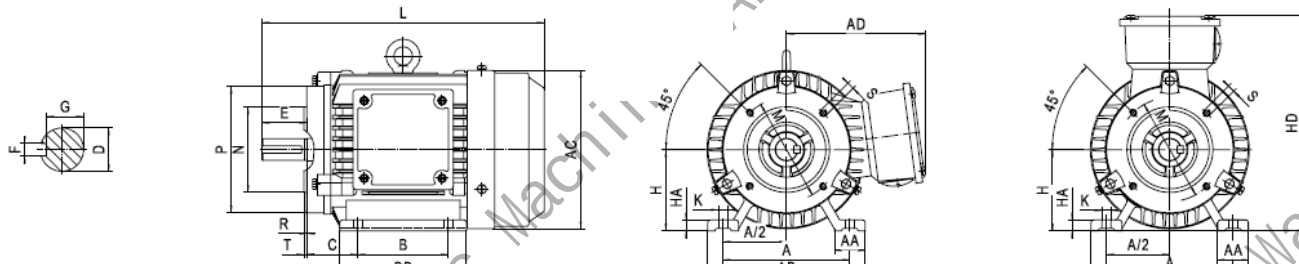
Synchronous speed 1000 r/min										
YE3-71M1-6	0.18	0.76	850	54.6	0.66	2.02	1.9	4.0	2.0	52
YE3-71M2-6	0.25	0.97	850	57.4	0.68	2.81	1.9	4.0	2.0	52
YE3-80M1-6	0.37	1.2	910	68.0	0.70	3.88	1.9	5.5	2.0	54
YE3-80M2-6	0.55	1.6	925	72.0	0.71	5.68	1.9	5.8	2.1	54
YE3-90S-6	0.75	2.0	945	78.9	0.71	7.58	2.0	6.0	2.1	57
YE3-90L-6	1.1	2.8	950	81.0	0.73	11.1	2.0	6.0	2.1	57
YE3-100L-6	1.5	3.8	950	82.5	0.73	15.1	2.0	6.5	2.1	61
YE3-112M-6	2.2	5.4	965	84.3	0.74	21.8	2.0	6.6	2.1	65
YE3-132S-6	3	7.2	975	85.6	0.74	29.4	1.9	6.8	2.1	69
YE3-132M1-6	4	9.5	975	86.8	0.74	39.2	1.9	6.8	2.1	69
YE3-132M2-6	5.5	12.7	975	88.0	0.75	53.9	1.9	7.0	2.1	69
YE3-160M-6	7.5	16.2	980	89.1	0.79	73.1	1.9	7.0	2.1	70
YE3-160L-6	11	23.1	980	90.3	0.80	107	1.9	7.2	2.1	70

Dimensions & Mounting

B14 (Footless and Small Flange Mounted)

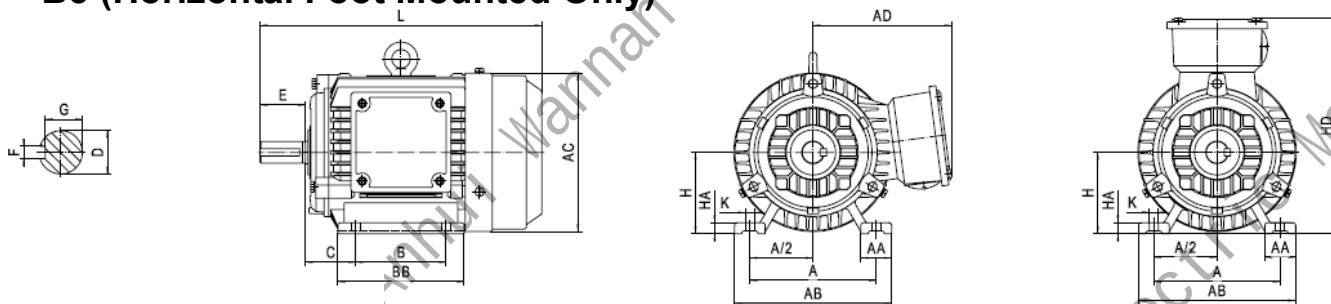


B34 (Foot and Small Flange Mounted)



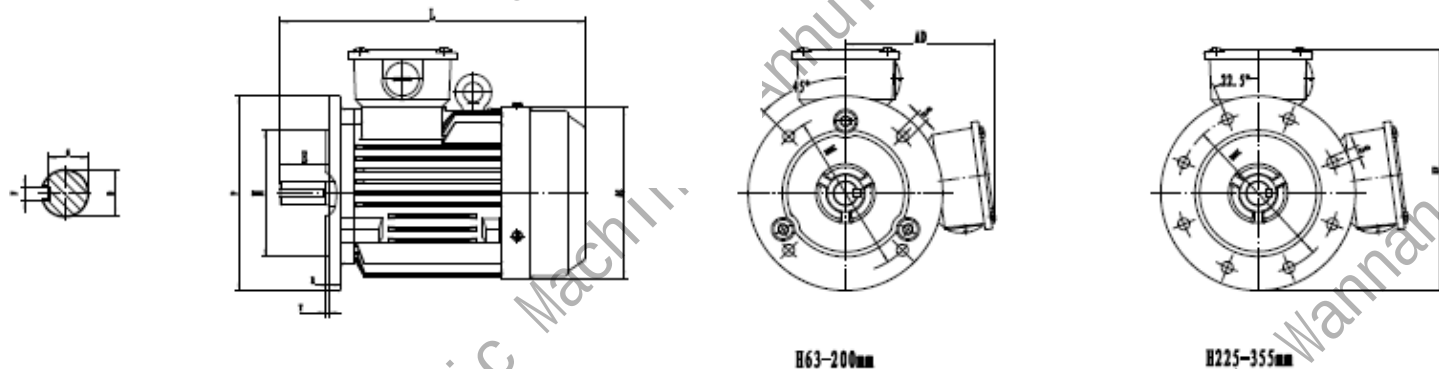
Frame	Poles	Mounting Dimension															Overall Dimension							
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	BB	HA	AB	AC	AD	HD	L
63M	2,4	100	80	40	11	23	4	8.5	63	7	75	60	90	0	4-M5	2.5	30	110	8	135	135	70	180	230
71M	2,4,6	112	90	45	14	30	5	11	71	7	85	70	105	0	4-M6	2.5	32	120	8	150	145	80	195	255
80M	2,4,6,8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	4-M6	3	32	135	10	160	165	145	225	295
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	115	95	140	0	4-M8	3	34	170	12	180	180	165	255	345
90L	2,4,6,8		125														210	385						
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	130	110	160	0	4-M8	3.5	39	186	14	200	205	175	275	390
112M	2, 6,8	190	140	70	28	60	8	24	112	12	130	110	160	0	4-M8	3.5	45	200	14	230	225	190	300	425
	4																230	455						

B3 (Horizontal Foot Mounted Only)



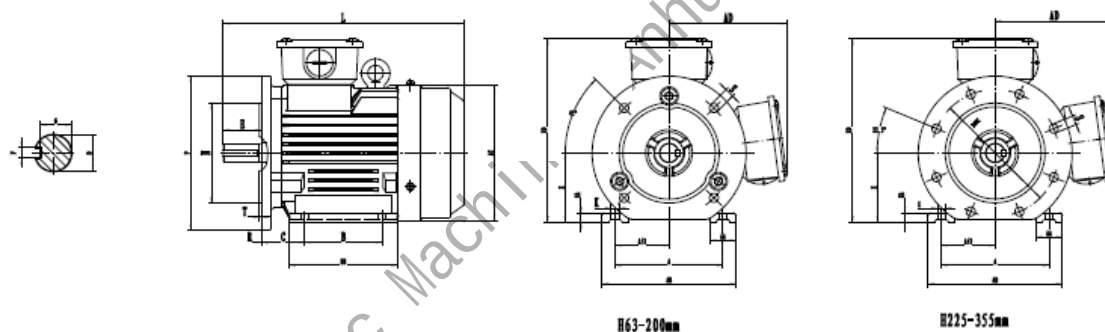
Frame	Poles	Mounting Dimension									Overall Dimension							
		A	B	C	D	E	F	G	H	K	AA	BB	HA	AB	AC	AD	HD	L
63M	2,4	100	80	40	11	23	4	8.5	63	7	30	110	8	135	135	70	180	230
71M	2,4,6	112	90	45	14	30	5	11	71	7	32	120	8	150	145	80	195	255
80M	2,4,6,8	125	100	50	19	40	6	15.5	80	10	32	135	10	160	165	145	225	295
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	34	170	12	180	180	165	255	345
90L			125									210						385
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	39	186	14	200	205	175	275	390
112M	2, 6,8	190	140	70	28	60	8	24	112	12	45	200	14	230	225	190	300	425
	4											230						455
132S	2,4,6,8	216	140	89	38	80	10	33	132	12	55	190	18	265	270	220	350	475
132M			178									230						510
160M	2,4,6,8	254	210	108	42	110	12	37	160	15	65	260	20	315	320	260	420	610
160L			254									304						655

B5 (Footless and B5 Flange Mounted)

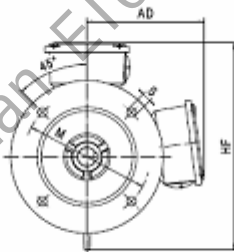


Frame	Poles	Mounting Dimension										Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
63M	2,4	11	23	4	8.5	115	95	140	0	4-Φ10	3	135	70	140	230
71M	2,4,6	14	30	5	11	130	110	160	0	4-Φ10	3.5	145	80	160	255
80M	2,4,6,8	19	40	6	15.5	165	130	200	0	4-Φ12	3.5	165	145	245	295
90S	2,4,6,8	24	50	8	20	165	130	200	0	4-Φ12	3.5	180	165	265	345
90L															385
100L	2,4,6,8	28	60	8	24	215	180	250	0	4-Φ15	4	205	175	300	390
112M	2,6,8	28	60	8	24	215	180	250	0	4-Φ15	4	225	190	315	425
	4														455
132S	2,4,6,8	38	80	10	33	265	230	300	0	4-Φ15	4	270	220	370	475
132M															510
160M	2,4,6,8	42	110	12	37	300	250	350	0	4-Φ19	5	320	260	435	610
160L															655

B35 (Foot and B5 Flange Mounted)



V1 (Vertical Shaft down Footless Flange Mounted)

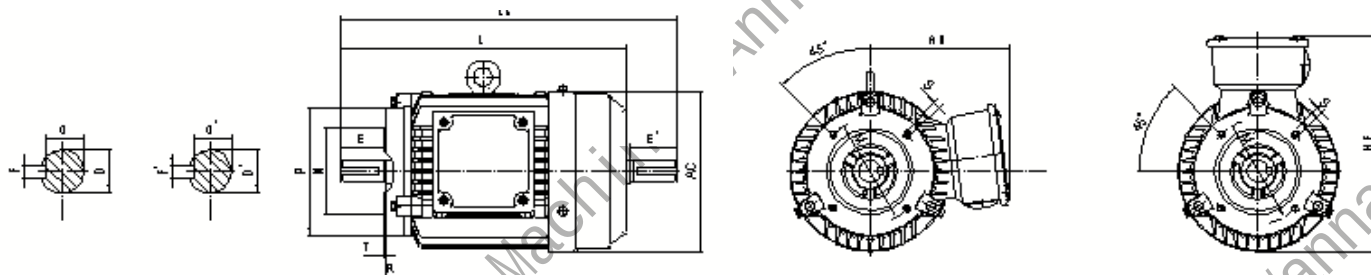


H225-355mm

Frame	Poles	Mounting Dimension										Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
80M	2,4,6,8	19	40	6	15.5	165	130	200	0	4-φ 12	3.5	165	145	245	315
90S	2,4,6,8	24	50	8	20	165	130	200	0	4-φ 12	3.5	180	165	265	370
90L															410
100L	2,4,6,8	28	60	8	24	215	180	250	0	4-φ 15	4	205	175	300	420
112M	2,6,8	28	60	8	24	215	180	250	0	4-φ 15	4	225	190	315	455
	4														485
132S	2,4,6,8	38	80	10	33	265	230	300	0	4-φ 15	4	270	220	370	510
132M															550
160M	2,4,6,8	42	110	12	37	300	250	350	0	4-φ 19	5	320	260	435	655
160L															700

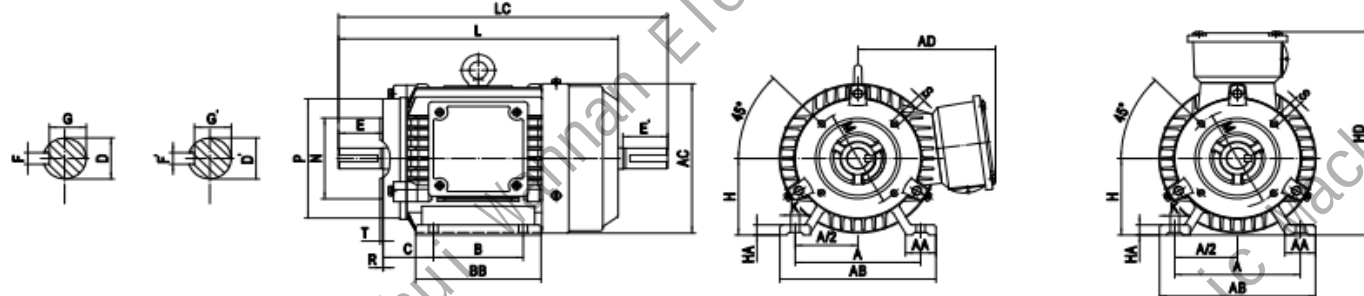
YE3 series motor with 2 shaft ends, dimensions as follows: mm

B14 (Footless and Small Flange Mounted)



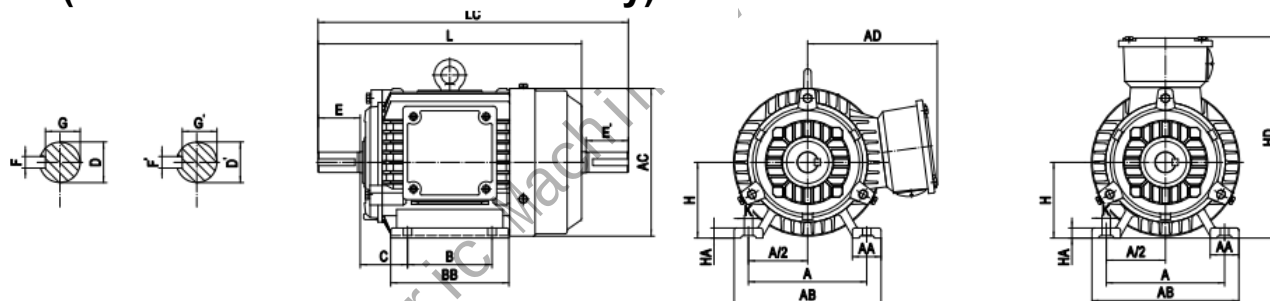
Frame	Poles	Mounting Dimension										Overall Dimension				
		D/D'	E/E'	F/F'	G/G'	M	N	P	R	S	T	AC	AD	HF	L	LC
80M	2,4,6,8	19	40	6	15.5	100	80	120	0	4-M6	3	165	145	245	290	333
90S	2,4,6,8	24	50	8	20	115	95	140	0	4-M8	3	180	165	265	340	393
90L	2,4,6,8														380	433
100L	2,4,6,8	28	60	8	24	130	110	160	0	4-M8	3.5	205	175	300	385	448
112M	2,6,8	28	60	8	24	130	110	160	0	4-M8	3.5	225	190	315	420	483
	4														450	513

B34 (Foot and Small Flange Mounted)



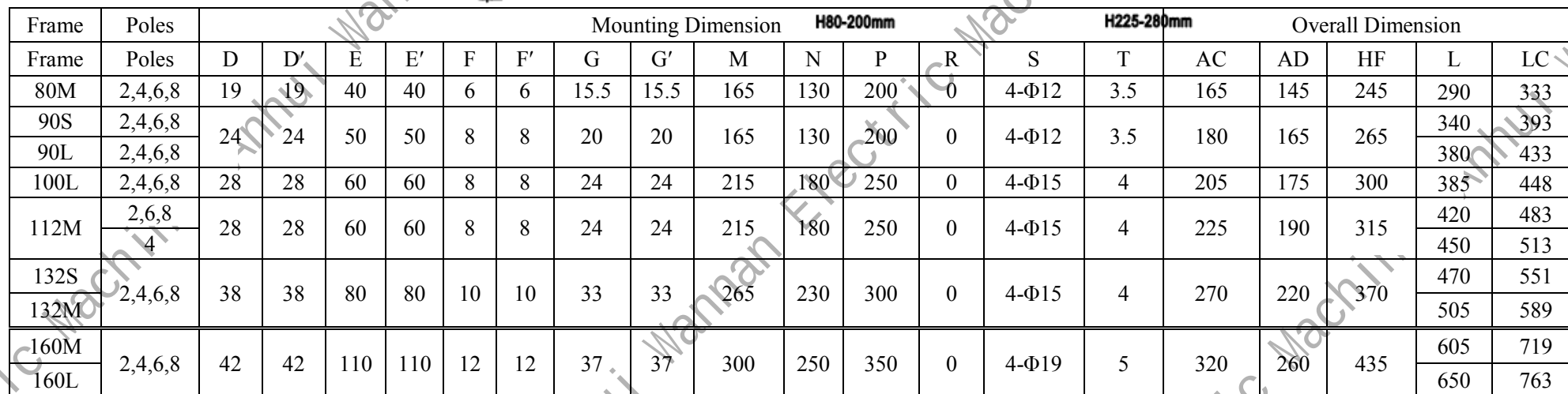
Frame	Poles	Mounting Dimension															Overall Dimension									
		A	B	C	D/D'	E/E'	F/F'	G/G'	H	K	M	N	P	R	S	T	AA	BB	HA	AB	AC	AD	HD	L	LC	
80M	2,4,6,8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	4-M6	3	32	135	10	160	165	145	225	290	333	
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	115	95	140	0	4-M8	3	34	170	12	180	180	165	255	340	393	
90L	2,4,6,8		125															210						380	433	
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	130	110	160	0	4-M8	3.5	39	186	14	200	205	175	275	385	448	
112M	2,6,8	190	140	70	28	60	8	24	112	12	130	110	160	0	4-M8	3.5	45	200	14	230	225	190	300	420	483	
	4																	230						450	513	

B3 (Horizontal Foot Mounted Only)



mm

Frame	poles	Mounting Dimension													Overall Dimension									
		A	B	C	D	D'	E	E'	F	F'	G	G'	H	K	AA	BB	HA	AB	AC	AD	HD	L	LC	
80M	2.4.6.8	125	100	50	19	19	40	40	6	6	15.5	15.5	80	10	32	135	10	160	165	145	225	290	333	
90S	2.4.6.8	140	100	56	24	24	50	50	8	8	20	20	90	10	34	145	12	180	180	165	255	340	393	
90L	2.4.6.8		125													170						380	433	
100L	2.4.6.8	160	140	63	28	28	60	60	8	8	24	24	100	12	39	186	14	200	205	175	275	385	448	
112M	2.6.8	190	140	70	28	28	60	60	8	8	24	24	112	12	45	200	14	230	225	190	300	420	483	
	4																					450	513	
132S	2.4.6.8	216	140	89	38	38	80	80	10	10	33	33	132	12	55	190	18	265	270	220	350	470	551	
132M	2.4.6.8		178													230						505	589	
160M	2.4.6.8	254	210	108	42	42	110	110	12	12	37	37	160	15	65	260	20	315	320	260	420	605	719	
160L	2.4.6.8		254													304						650	763	



Conventional mounting type and suitable frame size are given in following table (with “√”)

Frame	basic type			derived type											
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36	B14	B34	V18
63~112	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
132~160	√	√	√	√	√	√	√	√	√	√	√	√	-	-	-

If there is no other request in the order or agreement, terminal box standard position is at the right side of the frame; data above may be changed without prior notice.