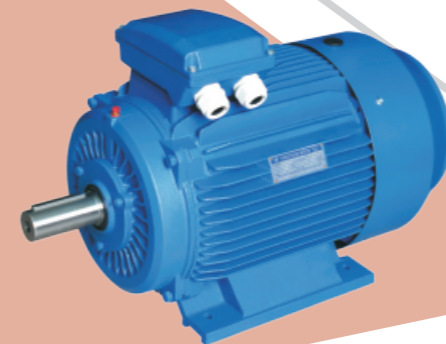
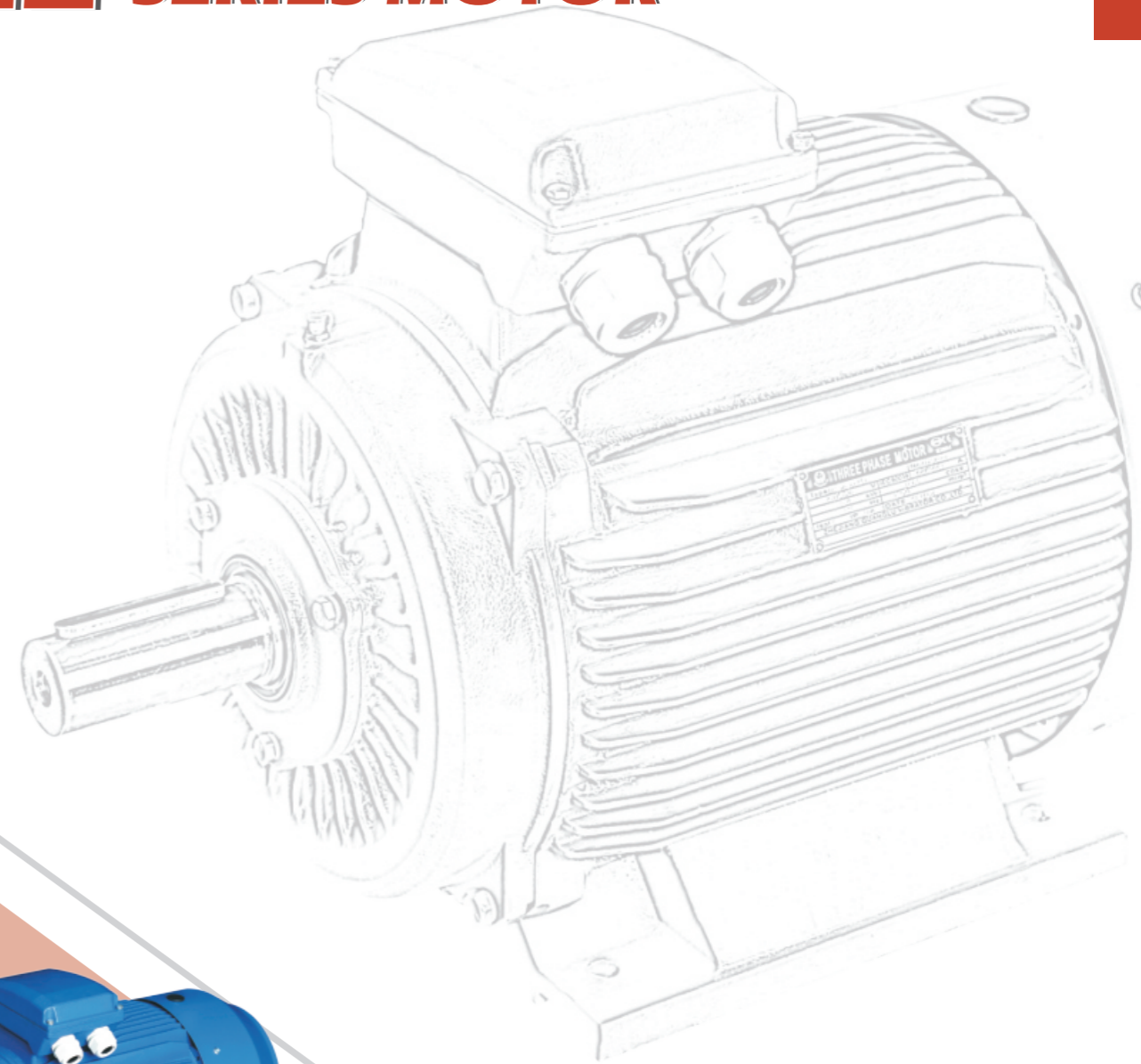




IE2 SERIES MOTOR



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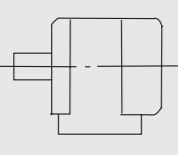
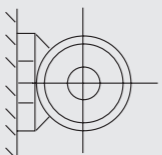
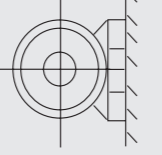
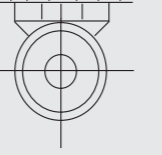
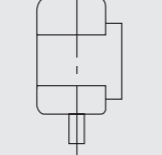
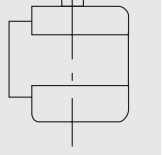
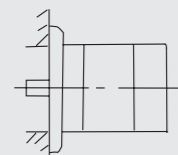
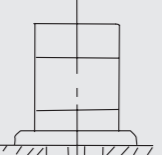
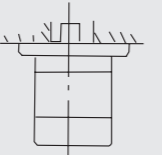
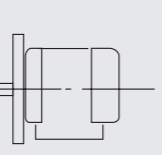
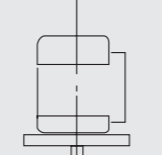
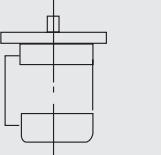
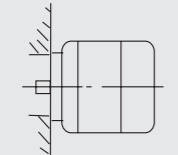
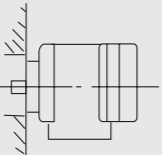
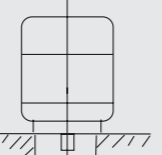
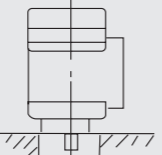
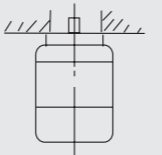
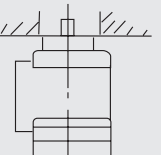
BEARING SIZE

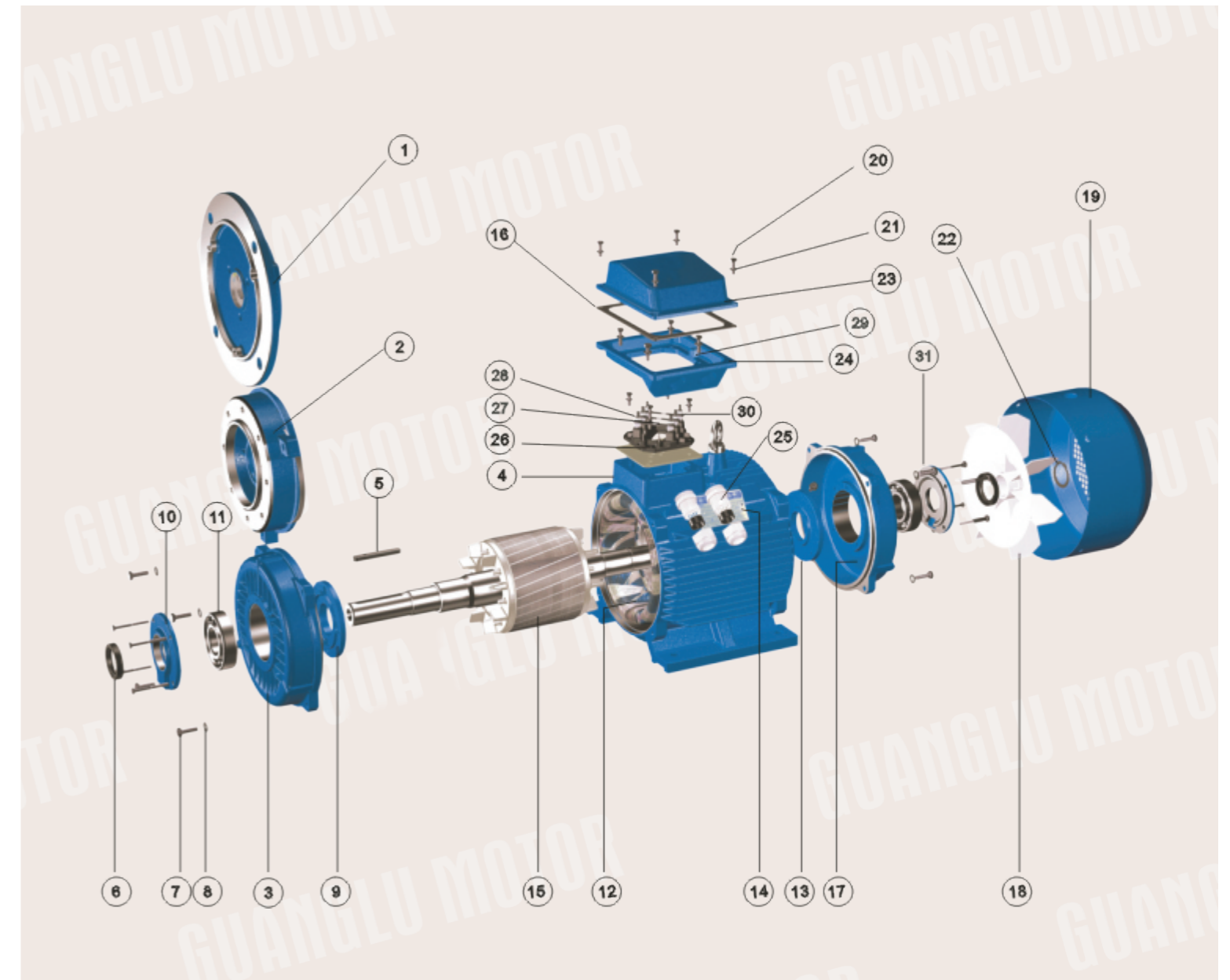
Frame Size	Poles	Drive End	Non-Drive End
80	2~4	6204-2RZ	6204-2RZ
90	2~6	6205-2RZ	6205-2RZ
100	2~6	6206-2RZ	6206-2RZ
112	2~6	6306-2RZ	6306-2RZ
132	2~6	6308-2RZ	6308-2RZ
160	2~6	6309-2RZC3	6309-2RZC3
180	2~6	6311 C3	6311 C3
200	2~6	6312 C3	6312 C3
225	2~6	6313 C3	6313 C3
250	2~6	6314 C3	6314 C3
280	2	6314 C3	6314 C3
	4~6	6317 C3	6317 C3
315	2	6317 C3	6317 C3
	4~6	NU319 C3	6319 C3
355	2	6319 C3	6319 C3
	4~6	NU322 C3	NU322 C3

MAIN DATA FOR TERMINAL BOX

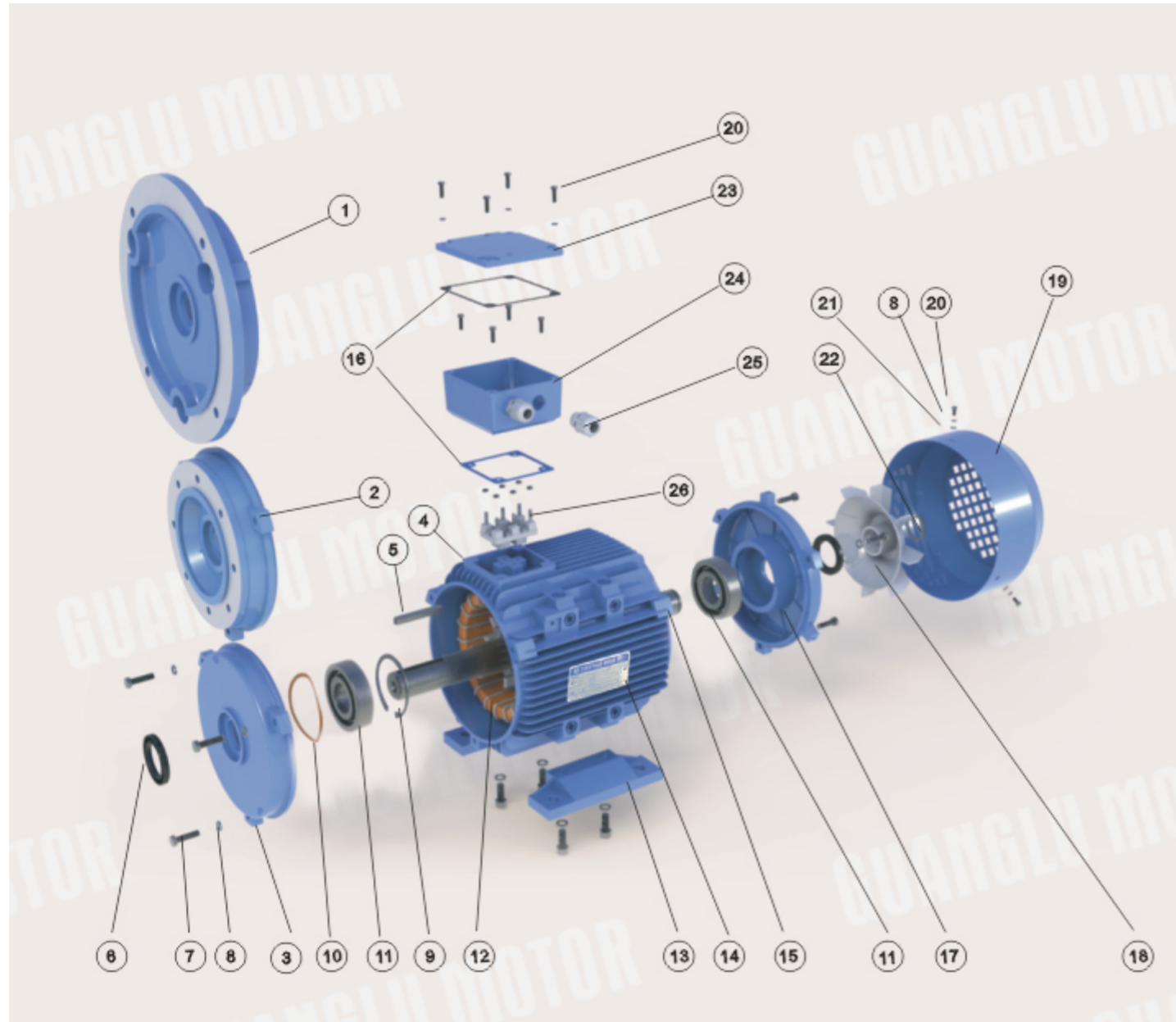
Classified number	Frame size	Max.F.Amps	Entry hole size
1	H80	2.6	2×M20×1.5
2	H90-100	6.8	2×M25×1.5
3	H112-132	15.4	2×M32×1.5
4	H160-180	42.5	2×M40×1.5
5	H200-225	84.2	2×M50×1.5
6	H250-280	166.6	2×M63×1.5
7	H315	358	2×M63×1.5
8	H355	546	2×M63×1.5

The mounting arrangements of the motors comply with IEC34-7 Recommendation. There are four basic arrangements shown as the following tables and figures.

Fundamental arrangement	B3					
Mounting arrangement	B3	B6	B7	B8	V5	V6
Diagram						
Range of Manufacture (framesize)	80-355	80-160				
Fundamental arrangement	B5			B35		
Mounting arrangement	B5	V1	V3	B35	V15	V36
Diagram						
Range of Manufacture (framesize)	80-280	80-355	80-160	80-355	80-160	
Fundamental arrangement	B14					
Mounting arrangement	B14	B34	V18	V58	V19	V69
Diagram						
Range of Manufacture (framesize)	80-132					



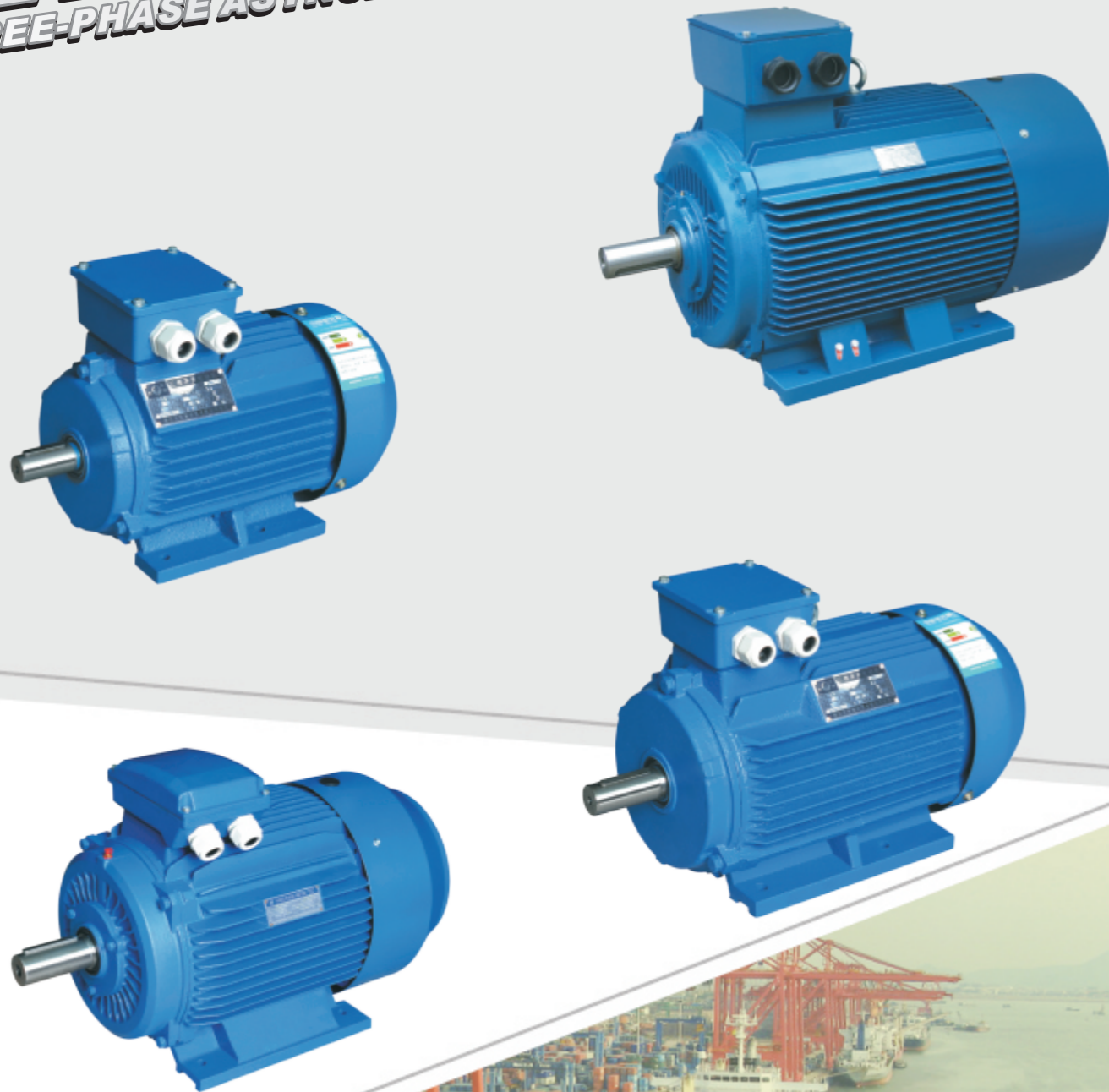
- | | | | |
|--------------------|--------------------------|-----------------------|--------------------------|
| 1. B5 Flange | 9. Inner Bearing Cap | 17. Rear Endshield | 25. Cable Gland |
| 2. B14 Flange | 10. External Bearing Cap | 18. Fan | 26. Terminal Board |
| 3. Front Endshield | 11. Bearing | 19. Fan Cover | 27. Connection Block |
| 4. Frame | 12. Stator | 20. Screw | 28. Terminals |
| 5. Key | 13. Inner Bearing Cap | 21. Spring Washer | 29. Bolt |
| 6. Oil Seal | 14. Nameplate | 22. Fan Clamp | 30. Connection Block |
| 7. Bolt | 15. Rotor | 23. Terminal Box Lid | 31. External Bearing Cap |
| 8. Spring Washer | 16. Gasket | 24. Terminal Box Base | |



- | | | | |
|----------------------|------------------|--------------------|-----------------------|
| 1. B5 Flange | 8. Spring Washer | 15. Rotor | 22. Fan clamp |
| 2. B14 Flange | 9. Circlip | 16. Gasket | 23. Terminal box lid |
| 3. Front Endshield | 10. Wave washer | 17. Rear Endshield | 24. Terminal box base |
| 4. Frame | 11. Bearing | 18. Fan | 25. Cable gland |
| 5. Key | 12. Stator | 19. Fan Cover | 26. Terminal board |
| 6. Oil seal (V ring) | 13. Feet | 20. Screw | |
| 7. Bolt | 14. Nameplate | 21. Washer | |



IE2 THREE-PHASE ASYNCHRONOUS MOTOR



TECHNICAL DATA OF IE2 SERIES

	Frame reference and size	Rated power	Full load speed in revolutions per minute	Full load current at rated voltage	Efficiency	Power factor	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Mean sound level @1m on no load	Voltage
NO.	Type	Output kW	Speed r/min	Amps A	EFF. %	P.F. CosΦ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Voltage V
1	IE2-80M1-2	0.75	2850	1.7	77.4	0.83	2.3	6.8	2.3	62	400
2	IE2-80M2-2	1.1	2870	2.4	79.6	0.83	2.3	7.3	2.3	62	400
3	IE2-90S-2	1.5	2880	3.2	81.3	0.84	2.3	7.6	2.3	67	400
4	IE2-90L-2	2.2	2880	4.5	83.2	0.85	2.3	7.8	2.3	67	400
5	IE2-100L1-2	3	2880	5.9	84.6	0.87	2.3	8.1	2.3	74	400
6	IE2-112M-2	4	2900	7.6	85.8	0.88	2.3	8.3	2.3	77	400
7	IE2-132S1-2	5.5	2910	10.4	87	0.88	2.2	8	2.3	79	400
8	IE2-132S2-2	7.5	2910	13.8	88.1	0.89	2.2	7.8	2.3	79	400
9	IE2-160M1-2	11	2940	20.0	89.4	0.89	2.2	7.9	2.3	81	400
10	IE2-160M2-2	15	2940	26.9	90.3	0.89	2.2	8	2.3	81	400
11	IE2-160L-2	18.5	2940	33.0	90.9	0.89	2.2	8.1	2.3	81	400
12	IE2-180M-2	22	2950	39.1	91.3	0.89	2.2	8.2	2.3	83	400
13	IE2-200L1-2	30	2960	52.9	92	0.89	2.2	7.5	2.3	84	400
14	IE2-200L2-2	37	2960	64.9	92.5	0.89	2.2	7.5	2.3	84	400
15	IE2-225M-2	45	2960	78.6	92.9	0.89	2.2	7.6	2.3	86	400
16	IE2-250M-2	55	2970	96	93.2	0.89	2.2	7.6	2.3	89	400
17	IE2-280S-2	75	2975	130	93.8	0.89	2	6.9	2.3	91	400
18	IE2-280M-2	90	2975	155	94.1	0.89	2	7	2.3	91	400
19	IE2-315S-2	110	2975	187	94.3	0.9	2	7.1	2.2	92	400
20	IE2-315M-2	132	2975	224	94.6	0.9	2	7.1	2.2	92	400
21	IE2-315L1-2	160	2975	268	94.8	0.91	2	7.1	2.2	92	400
22	IE2-315L2-2	200	2975	334	95	0.91	2	7.1	2.2	92	400
23	IE2-355M-2	250	2980	418	95	0.91	2	7.1	2.2	100	400
24	IE2-355L-2	315	2980	526	95	0.91	2	7.1	2.2	100	400

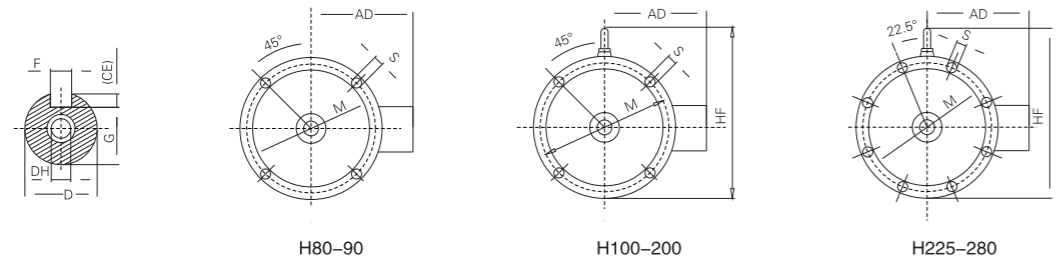
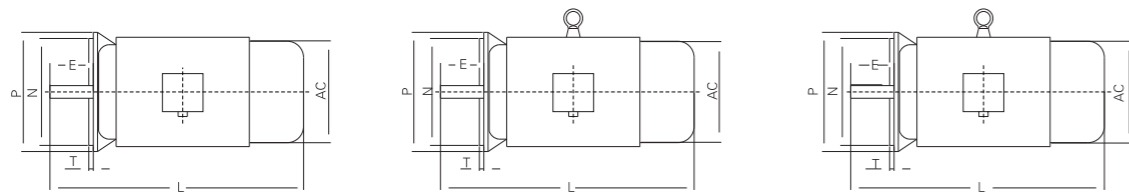
TECHNICAL DATA OF IE2 SERIES

NO.	Type	Output kW	Speed r/min	Amps A	EFF. %	P.F. CosΦ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Voltage V
1	IE2-80M2-4	0.75	1420	1.8	79.6	0.75	2.3	6.5	2.3	56	400
2	IE2-90S-4	1.1	1420	2.6	81.4	0.75	2.3	6.6	2.3	59	400
3	IE2-90L-4	1.5	1420	3.5	82.8	0.75	2.3	6.9	2.3	59	400
4	IE2-100L1-4	2.2	1440	4.7	84.3	0.81	2.3	7.5	2.3	64	400
5	IE2-100L2-4	3	1440	6.2	85.5	0.82	2.3	7.6	2.3	64	400
6	IE2-112M-4	4	1445	8.1	86.6	0.82	2.3	7.7	2.3	65	400
7	IE2-132S-4	5.5	1450	11.1	87.7	0.82	2	7.5	2.3	71	400
8	IE2-132M-4	7.5	1450	14.7	88.7	0.83	2	7.4	2.3	71	400
9	IE2-160M-4	11	1470	20.8	89.8	0.85	2.2	7.5	2.3	73	400
10	IE2-160L-4	15	1470	27.8	90.6	0.86	2.2	7.5	2.3	73	400
11	IE2-180M-4	18.5	1470	34.1	91.2	0.86	2.2	7.7	2.3	76	400
12	IE2-180L-4	22	1470	40.3	91.6	0.86	2.2	7.8	2.3	76	400
13	IE2-200L-4	30	1470	54.6	92.3	0.86	2.2	7.2	2.3	76	400
14	IE2-225S-4	37	1480	67.0	92.7	0.86	2.2	7.3	2.3	78	400
15	IE2-225M-4	45	1480	81.1	93.1	0.86	2.2	7.4	2.3	78	400
16	IE2-250M-4	55	1480	99	93.5	0.86	2.2	7.4	2.3	79	400
17	IE2-280S-4	75	1480	131	94	0.88	2.2	6.7	2.3	80	400
18	IE2-280M-4	90	1480	157	94.2	0.88	2.2	6.9	2.3	80	400
19	IE2-315S-4	110	1480	191	94.5	0.88	2.2	6.9	2.2	88	400
20	IE2-315M-4	132	1480	229	94.7	0.88	2.2	6.9	2.2	88	400
21	IE2-315L1-4	160	1480	273	94.9	0.89	2.2	6.9	2.2	88	400
22	IE2-315L2-4	200	1480	341	95.1	0.89	2.2	6.9	2.2	88	400
23	IE2-355M-4	250	1490	422	95.1	0.9	2.2	6.9	2.2	95	400
24	IE2-355L-4	315	1490	531	95.1	0.9	2.2	6.9	2.2	95	400

TECHNICAL DATA OF IE2 SERIES

NO.	Type	Output kW	Speed r/min	Amps A	EFF. %	P.F. CosΦ	LRT RLT	LRA RLA	BDT RLT	Noise LwdB(A)	Voltage V
1	IE2-90S-6	0.75	930	2.0	75.9	0.72	2.1	5.8	2.1	57	400
2	IE2-90L-6	1.1	930	2.8	78.1	0.73	2.1	5.9	2.1	57	400
3	IE2-100L1-6	1.5	930	3.7	79.8	0.74	2.1	6	2.1	61	400
4	IE2-112M-6	2.2	945	5.2	81.8	0.74	2.1	6	2.1	65	400
5	IE2-132S-6	3	960	7.1	83.3	0.74	2	6.2	2.1	69	400
6	IE2-132M1-6	4	965	9.2	84.6	0.74	2	6.8	2.1	69	400
7	IE2-132M2-6	5.5	965	12.3	86	0.75	2	7.1	2.1	69	400
8	IE2-160M-6	7.5	970	15.9	87.2	0.78	2.1	6.7	2.1	73	400
9	IE2-160L-6	11	970	22.7	88.7	0.79	2.1	6.9	2.1	73	400
10	IE2-180L-6	15	980	29.8	89.7	0.81	2	7.2	2.1	73	400
11	IE2-200L1-6	18.5	980	36.5	90.4	0.81	2.1	7.2	2.1	73	400
12	IE2-200L2-6	22	980	42.6	90.9	0.82	2.1	7.3	2.1	73	400
13	IE2-225M-6	30	980	57.6	91.7	0.82	2	7.1	2.1	74	400
14	IE2-250M-6	37	980	69.0	92.2	0.84	2.1	7.1	2.1	76	400
15	IE2-280S-6	45	980	81	92.7	0.86	2.1	7.2	2	78	400
16	IE2-280M-6	55	980	99	93.1	0.86	2.1	7.2	2	78	400
17	IE2-315S-6	75	990	134	93.7	0.86	2	6.7	2	83	400
18	IE2-315M-6	90	990	161	94	0.86	2	6.7	2	83	400
19	IE2-315L1-6	110	990	196	94.3	0.86	2	6.7	2	83	400
20	IE2-315L2-6	132	990	234	94.6	0.86	2	6.7	2	83	400
21	IE2-355M1-6	160	990	280	94.8	0.87	2	6.7	2	85	400
22	IE2-355M2-6	200	990	349	95	0.87	2	6.7	2	85	400
23	IE2-355L-6	250	990	437	95	0.87	2	6.7	2	85	400

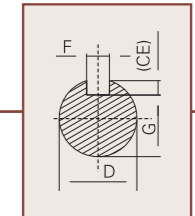
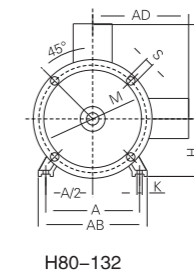
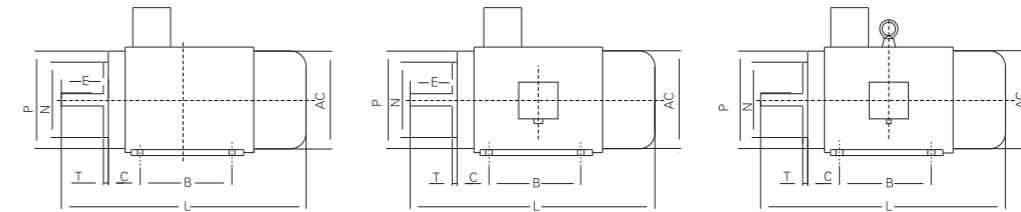
MOUNTING DATA FOR IE2



FRAME WITHOUT FEET AND END-SHIELD WITH FLANGE (IM B5)

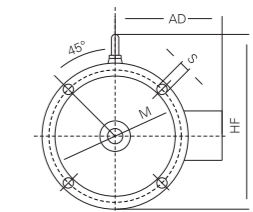
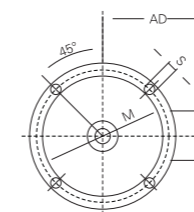
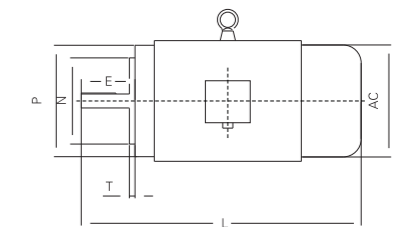
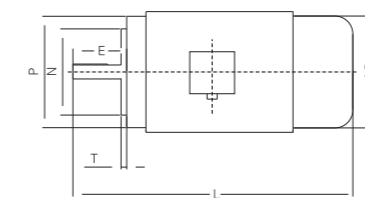
FRAME SIZE	POLES	D	E	F	G	M	N	P	S	T	FLANGE HOLES	AC	AD	HD	L	DH*
80M	2 4 6	19	40	6	15.5	165	130	200	M6	3.5	4	158	140	240	300	M6×16
90S	2 4 6	24	50	8	20	165	130	200	M6	3.5	4	177	160	260	330	M8×19
90L	2 4 6	24	50	8	20	165	130	200	M6	3.5	4	177	160	260	360	M8×19
100L	2 4 6	28	60	8	24	215	180	250	M8	4	4	198	172	300	400	M10×22
112M	2 4 6	28	60	8	24	215	180	250	M8	4	4	220	190	315	435	M10×22
132S	2 4 6	38	80	10	33	265	230	300	15	4	4	259	210	315	470	M12×28
132M	2 4 6	38	80	10	33	265	230	300	15	4	4	259	210	315	510	M12×28
160M	2 4 6	42	110	12	37	300	250	350	19	5	4	315	255	385	615	M16×36
160L	2 4 6	42	110	12	37	300	250	350	19	5	4	315	255	385	660	M16×36
180M	2 4 6	48	110	14	42.5	300	250	350	19	5	4	355	280	430	700	M16×36
180L	2 4 6	48	110	14	42.5	300	250	350	19	5	4	355	280	430	740	M16×36
200L	2 4 6	55	110	16	49	350	300	400	19	5	4	397	305	480	770	M20×42
225S	4	60	140	18	53	400	350	450	19	5	8	445	335	535	815	M20×42
225M	2	55	110	16	49	400	350	450	19	5	8	445	335	535	820	M20×42
	4 6	60	140	18	53	400	350	450	19	5	8	445	335	535	845	M20×42
250M	2	60	140	18	53	500	450	550	19	5	8	485	370	595	920	M20×42
	4 6	65	140	18	58	500	450	550	19	5	8	485	370	595	920	M20×42
280S	2	65	140	18	58	500	450	550	19	5	8	547	410	650	995	M20×42
	4 6	75	140	20	67.5	500	450	550	19	5	8	547	410	650	995	M20×42
280M	2	65	140	18	58	500	450	550	19	5	8	547	410	650	1045	M20×42
	4 6	75	140	20	67.5	500	450	550	19	5	8	547	410	650	1045	M20×42

MOUNTING DATA FOR IE2



FRAME WITH FEET AND END-SHIELD WITH FLANGE (IM B34)

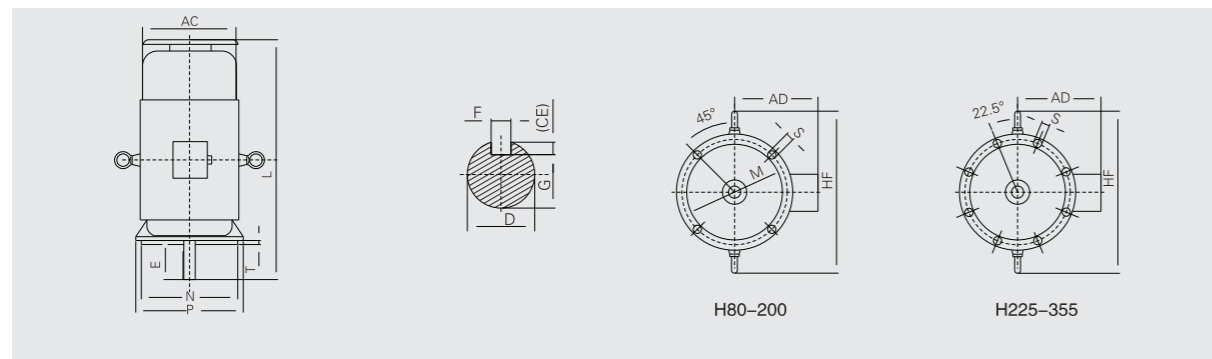
FRAME SIZE	POLES	A	A/2	B	C	D	E	F	G	H	K	M	N	P	S	T	FLANGE HOLES	AB	AC	AD	HD	L	DH
80M	2 4 6	125	62.5	100	50	19	40	6	15.5	80	10	100	80	120	M6	3	4	165	158	140	220	300	M6X16
90S	2 4 6	140	70	100	56	24	50	8	20	90	10	115	95	140	M6	3	4	180	177	160	255	330	M8X19
90L	2 4 6	140	70	125	56	24	50	8	20	90	10	115	95	140	M6	3	4	180	177	160	255	360	M8X19
100L	2 4 6	160	80	140	63	28	60	8	24	100	12	130	110	160	M8	3.5	4	205	198	172	270	400	M10X22
112M	2 4 6	190	95	140	70	28	60	8	24	112	12	130	110	160	M8	3.5	4	230	220	190	300	435	M10X22
132S	2 4 6	216	108	140	89	38	80	10	33	132	12	165	130	200	M10	3.5	4	270	259	210	345	470	M12X28
132M	2 4 6	216	108	178	89	38	80	10	33	132	12	165	130	200	M10	3.5	4	270	259	210	345	510	M12X28



MOUNTING DATA FOR IE2

FRAME WITHOUT FEET AND END-SHIELD WITH FLANGE (IM B14)

FRAME SIZE	POLES	D	E	F	G	M	N	P	S	T	FLANGE HOLES	AC	AD	HF	L	DH
80M	2 4 6	19	40	6	15.5	100	80	120	M6	3	4	158	140	215	300	M6X16
90S	2 4 6	24	50	8	20	115	95	140	M6	3	4	177	160	250	330	M8X19
90L	2 4 6	24	50	8	20	115	95	140	M6	3	4	177	160	252	360	M8X19
100L	2 4 6	28	60	8	24	130	110	160	M8	3.5	4	198	172	270	400	M10X22
112M	2 4 6	28	60	8	24	130	110	160	M8	3.5	4	220	190	300	435	M10X22
132S	2 4 6	38	80	10	33	165	130	200	M10	3.5	4	259	210	315	470	M12X28
132M	2 4 6	38	80	10	33	165	130	200	M10	3.5	4	259	210	315	510	M12X28



FRAME TYPE, FRAME WITHOUT FEET AND END SHIELD WITH FLANGE (WITH PLAIN HOLES) (IM V1)

FRAME SIZE	POLES	D	E	F	M	N	P	S	T	FLANGE HOLES	AC	AD	HF	L
160M	2 4 6	42	110	12	300	250	350	19	5	4	315	255	455	695
160L	2 4 6	42	110	12	300	250	350	19	5	4	315	255	455	740
180M	2 4 6	48	110	14	300	250	350	19	5	4	355	280	500	790
180L	2 4 6	48	110	14	300	250	350	19	5	4	355	280	500	830
200L	2 4 6	55	110	16	350	300	400	19	5	4	397	305	550	860
225S	4	60	140	18	400	350	450	19	5	8	445	335	610	905
225M	2	55	110	16	400	350	450	19	5	8	445	335	610	910
	4 6	60	140	18	400	350	450	19	5	8	445	335	610	935
250M	2	60	140	18	500	450	550	19	5	8	485	370	650	1015
	4 6	65	140	18	500	450	550	19	5	8	485	370	650	1015
280S	2	65	140	18	500	450	550	19	5	8	547	410	720	1110
	4 6	75	140	20	500	450	550	19	5	8	547	410	720	1110
280M	2	65	140	18	500	450	550	19	5	8	547	410	720	1150
	4 6	75	140	20	500	450	550	19	5	8	547	410	900	1150
315S	2	65	140	18	600	550	660	24	6	8	620	530	900	1280
	4 6	80	170	22	600	550	660	24	6	8	620	530	900	1510
315M	2	65	140	18	600	550	660	24	6	8	620	530	900	1310
	4 6	80	170	22	600	550	660	24	6	8	620	530	900	1430
315L	2	65	140	18	600	550	660	24	6	8	620	530	900	1310
	4 6	80	170	22	600	550	660	24	6	8	620	530	900	1430
355M	2	75	140	20	740	680	800	24	6	8	698	655	1010	1640
	4 6	95	170	25	740	680	800	24	6	8	698	655	1010	1670
355L	2	75	140	20	740	680	800	24	6	8	698	655	1010	1640
	4 6	95	170	25	740	680	800	24	6	8	698	655	1010	1670

