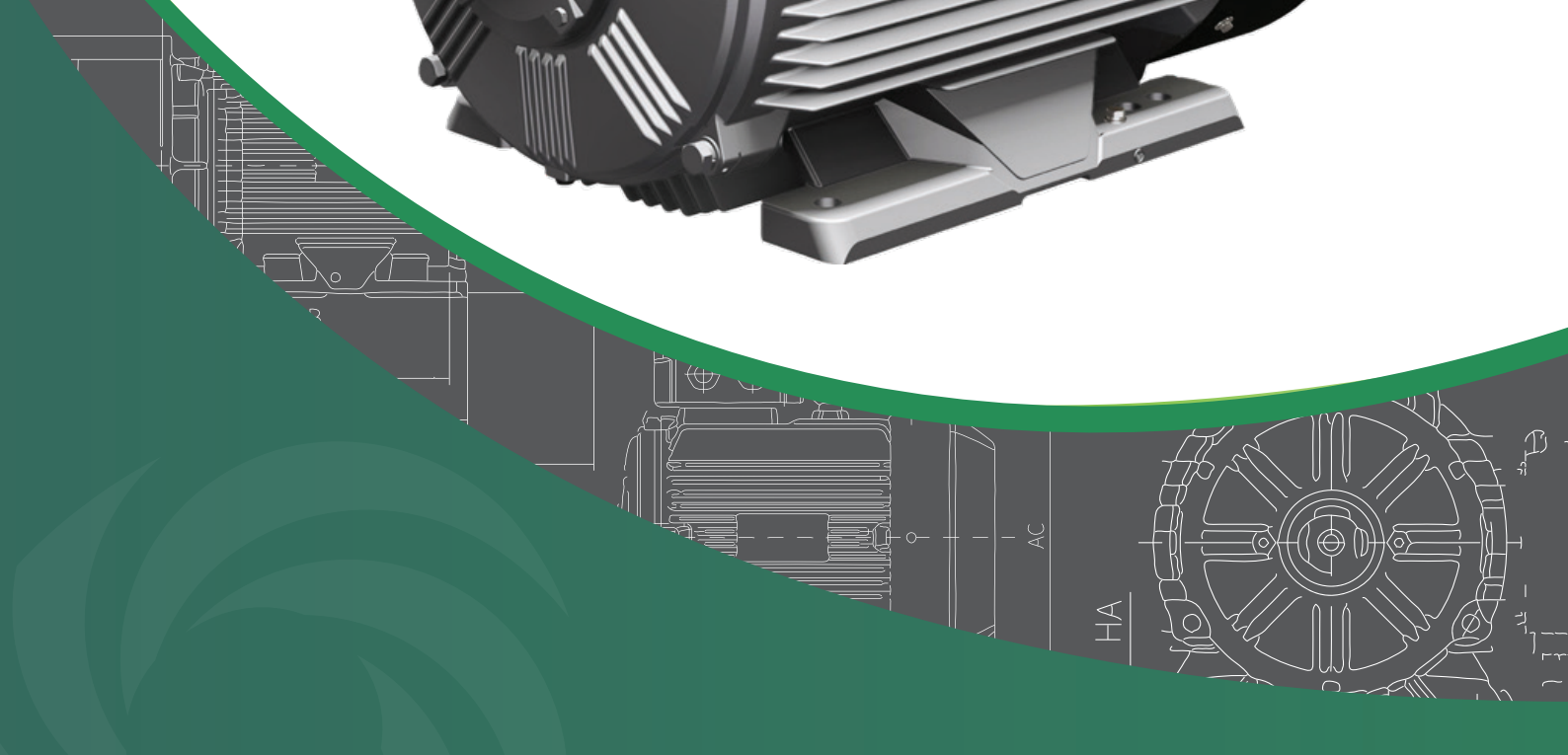


KRUGER



Motors KPM Series



Why Kruger?

KRUGER has been a leading innovator and manufacturer of residential, commercial and industrial fan application solutions across Asia since 1985. Today with a direct presence in over 18 regions throughout Asia, world class R&D and manufacturing facilities, KRUGER are able to offer their customers unparalleled service and support at a local level. Our customers placed their trust in KRUGER.



Why use a KRUGER Ecowatt® KPM Motors?

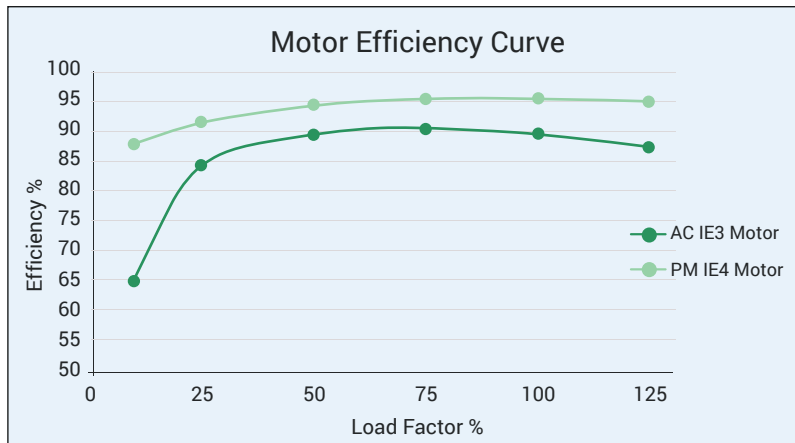
The growing demand for energy is in opposition to limited resources for fossil fuels - a major reason for the further rise in energy costs. The development of electricity prices will have a significant impact on the competitiveness of companies, which is why a low energy consumption and thus lower energy cost is a decisive factor and motivation for your company success.

The innovative Ecowatt® KPM Series represent a special energy-efficient solution. These permanent-magnet synchronous motors are operated exclusively with our Ecowatt® Drives and are characterized by a considerably higher efficiency level over a wide speed range up to 23% energy saving compared to conventional asynchronous IE3 motors.



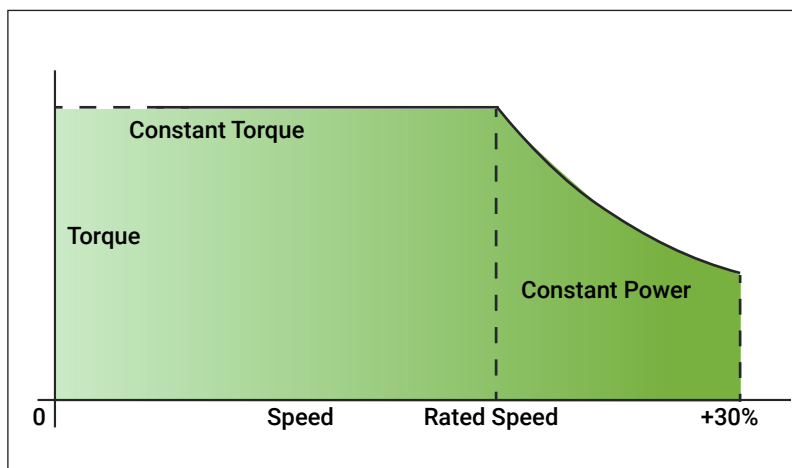
Motor Technology Advantages

Ultra High Efficiency at Full Range of Speeds or Loads



KPM motor's rotor relies on permanent magnet to generate magnetic field, no need for reactive excitation current, can significantly improve the power factor (up to 1), regardless of speed or load, can provide ultra high efficiency. It has superior efficiency compared with the induction motor in the full speed range, especially in the case of low speed or low torque output, the efficiency and power factor increase is more significant.

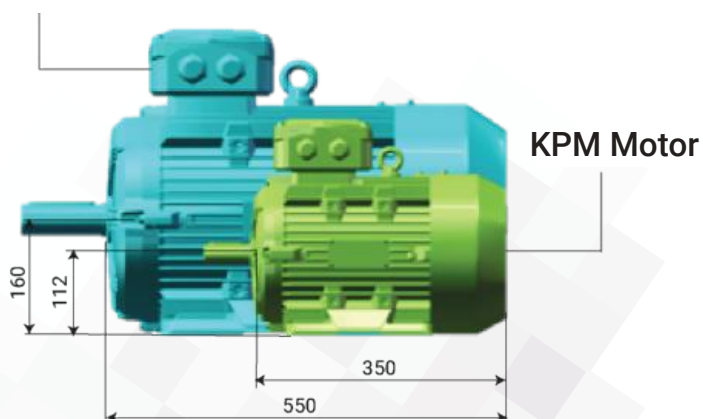
Maintain Constant Torque in a Wide Range of Speed Regulation



KPM motors can operate at constant torque over a wide range of rotational speeds, no need for forced ventilation. This feature makes it an ideal choice for applications that require variable speed and constant torque, even at low speeds, without the need for an encoder.

Greater Power Density - Reduced Mass and Volume

Induction Motor



KPM motor (IE4) and the same power & speed induction motor (IE3) with a volume reduction of 1-2 frame size, not only improve the motor efficiency, but also reduce the motor mass and volume. KPM motors have shafts and bearings that can withstand higher power and torque in a smaller housing size.

Motor Specification

Technical Characteristics

Cast of Motor		
Item	Aluminum Cast Motor	Iron Cast Motor
Frame Size	H56-H160	H132-H315
Rated Power	0.25~55kW	7.5~315kW
Rated Speed	3000,1500,1000rpm	3000,1500,1000rpm
Rated Voltage	380V	380V
Duty	S1	S1
Efficiency	IE4	IE4
Installation	B3 (Option: B5 or B35)	B3 (Option: B5 or B35)
Insulation	F (ΔT 80K)	F (ΔT 80K)
S.F	1	1
Protection	IP55	IP55
Cooling Type	IC411	IC411
Frame Material	Cast Aluminium	Cast Iron
Terminal Box Material	Cast Aluminium	Cast Aluminium
Terminal Box Position	Top (Option: Right or Left)	Top (Option: Right or Left)
Bearing Lubrication	Maintenance-Free Bearing	H180 and below -Maintenance-free bearings, H200 and above-Open type bearing with oil injection and discharge device
Motor Internal Protection	Non	Non
Variable Frequency Drive	Kruger K320 Series or K354 Series	Kruger K320 Series or K354 Series

Nomenclature

KPM X (132) - 22 - 3000



Electrical Performance Parameters

KPM-3000rpm IE4 Aluminum Housing Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Rated Voltage 380V				Ld mH	Lq mH	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP			Speed rpm	Efficiency %	P.F.	Rated Current A				LwA dB(A)	LpFA dB(A)		
KPMA(56)-0.55-3000	0.55	0.75	56M	1.8	3000	81.5	0.95	1.2	106.8	92.1	110	61	49	0.14	3.5
KPMA(56)-0.75-3000	0.75	1	56M	2.4	3000	83.5	0.95	1.6	76.4	65.8	110	61	49	0.2	4
KPMA(63)-1.1-3000	1.1	1.5	63M	3.5	3000	85.2	0.95	2.3	83.4	83.4	113	61	49	0.4	5.2
KPMA(63)-1.5-3000	1.5	2	63M	4.8	3000	86.5	0.95	3.1	64.6	64.6	113	61	49	0.53	5.8
KPMA(71)-2.2-3000	2.2	3	71M	7	3000	88	0.95	4.5	48.3	36.1	109	61	49	0.94	6.8
KPMA(80)-3-3000	3	4	80M	9.5	3000	89.1	0.95	6	28.8	20.6	104	62	50	2.17	11.2
KPMA(80)-4-3000	4	5.5	80M	12.7	3000	90	0.95	7.9	24.6	17.6	106	62	50	2.6	12
KPMA(90)-5.5-3000	5.5	7.5	90S	17.5	3000	90.9	0.95	10.8	27.3	20.3	104	67	55	3.03	16.1
KPMA(100)-7.5-3000	7.5	10	100L	23.9	3000	91.7	0.95	14.6	19.5	14.4	102	74	62	4.03	18
KPMA(100)-11-3000	11	15	100L	35	3000	92.6	0.95	21.2	7.6	7.6	109	74	62	13.1	25
KPMA(112)-15-3000	15	20	112M	47.7	3000	93.3	0.95	28.7	10.3	5.9	112	77	65	15.44	45.1
KPMA(112)-18.5-3000	18.5	25	112M	58.9	3000	93.7	0.95	35.3	7.9	4.5	109	77	65	19	47
KPMA(132)-22-3000	22	30	132S	70	3000	94	0.95	41.8	8.3	5	108	79	67	30	68
KPMA(132)-30-3000	30	40	132M	95.5	3000	94.5	0.95	56.7	6.1	3.6	107	79	67	40	75
KPMA(160)-37-3000	37	50	160M	117.8	3000	94.8	0.95	69.8	6	3.1	112	81	69	75.5	81
KPMA(160)-45-3000	45	60	160M	143.2	3000	95	0.95	84.7	4.7	2.4	110	81	68	92.6	89
KPMA(160)-55-3000	55	75	160L	175.1	3000	95.3	0.95	103.2	4	2	112	81	68	113.2	94

KPM-1500rpm IE4 Aluminum Housing Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Rated Voltage 380V				Ld mH	Lq mH	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP			Speed rpm	Efficiency %	P.F.	Rated Current A				LwA dB(A)	LpFA dB(A)		
KPMA(56)-0.25-1500	0.25	0.35	56M	1.6	1500	77.9	0.95	0.6	426	368	219	55	43	0.14	3.5
KPMA(63)-0.37-1500	0.37	0.5	63M	2.4	1500	81.1	0.95	0.8	481	481	226	55	43	0.28	4.8
KPMA(63)-0.4-1500	0.4	0.75	63M	2.5	1500	81.7	0.95	0.9	481	481	226	55	43	0.28	4.8
KPMA(63)-0.55-1500	0.55	1	63M	3.5	1500	83.9	0.95	1.2	337	337	226	55	43	0.4	5.2
KPMA(71)-0.75-1500	0.75	1	71M	4.8	1500	85.7	0.95	1.6	326.7	223.5	217	55	43	0.73	6.5
KPMA(71)-1.1-1500	1.1	1.5	71M	7	1500	87.2	0.95	2.3	193.3	132.2	217	56	44	0.94	6.8
KPMA(80)-1.5-1500	1.5	2	80M	9.5	1500	88.2	0.95	3	118.9	85	212	56	44	2.17	11.2
KPMA(90)-2.2-1500	2.2	3	90S	14	1500	89.5	0.95	4.4	125.3	92.9	204	59	47	2.52	15.4
KPMA(90)-3-1500	3	4	90L	19.1	1500	90.4	0.95	5.9	90.1	70.5	215	59	47	3.53	16.8
KPMA(100)-4-1500	4	5.5	100L	25.5	1500	91.1	0.95	7.8	41.4	41.4	218	64	52	9.63	22.6
KPMA(100)-5.5-1500	5.5	7.5	100L	35	1500	91.9	0.95	10.7	30.3	30.3	217	64	52	13.1	25
KPMA(112)-7.5-1500	7.5	10	112M	47.7	1500	92.6	0.95	14.5	39.5	22.6	219	65	53	15.44	45.1
KPMA(132)-11-1500	11	15	132S	70	1500	93.3	0.95	21.1	31.8	19.1	212	71	59	30	68
KPMA(132)-15-1500	15	20	132M	95.5	1500	93.9	0.95	28.6	24.2	14.5	213	71	59	40	75
KPMA(160)-18.5-1500	18.5	25	160M	117.8	1500	94.2	0.95	35.1	23.8	12.2	223	73	60	75.5	81
KPMA(160)-22-1500	22	30	160M	140.1	1500	94.5	0.95	41.6	18.6	9.5	219	73	60	92.6	89
KPMA(160)-30-1500	30	40	160L	191	1500	94.9	0.95	56.5	14	7.2	219	73	60	123.5	100

Motor Technology Advantages

KPM-1000rpm IE4 Aluminum Housing Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Rated Voltage 380V				Ld mH	Lq mH	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP			Speed rpm	Efficiency %	P.F.	Rated Current A				LwA dB(A)	LpA dB(A)		
KPMA(63)-0.25-1000	0.25	0.35	63M	2.4	1000	74.1	0.95	0.6	1082	1082	339	52	41	0.28	4.8
KPMA(63)-0.37-1000	0.37	0.5	63M	3.5	1000	78	0.95	0.8	755	755	339	52	40	0.4	5.2
KPMA(63)-0.4-1000	0.4	0.55	63M	3.8	1000	78.8	0.95	0.9	755	755	339	52	40	0.4	5.2
KPMA(71)-0.55-1000	0.55	0.75	71M	5.3	1000	80.9	0.95	1.2	565.5	368.8	326	54	42	0.73	6.5
KPMA(71)-0.75-1000	0.75	1	71M	7.2	1000	82.7	0.95	1.6	435	297.5	326	54	42	0.94	6.8
KPMA(80)-1.1-1000	1.1	1.5	80M	10.5	1000	84.5	0.95	2.3	264.7	189.3	316	54	42	2.17	11.2
KPMA(90)-1.5-1000	1.5	2	90S	14.3	1000	85.9	0.95	3.1	285.2	211.4	308	57	45	2.52	15.4
KPMA(100)-2.2-1000	2.2	3	100L	21	1000	87.4	0.95	4.5	228.2	168.5	304	61	49	3.53	16.8
KPMA(100)-3-1000	3	4	100L	28.6	1000	88.6	0.95	6.1	81.5	81.5	325	61	49	10.94	23.5
KPMA(100)-4-1000	4	5.5	100L	38.2	1000	89.5	0.95	8	68.2	68.2	326	61	49	13.1	25
KPMA(112)-5.5-1000	5.5	7.5	112M	52.5	1000	90.5	0.95	10.9	79.2	45.3	326	65	53	17.2	45.8
KPMA(132)-7.5-1000	7.5	10	132S	71.6	1000	91.3	0.95	14.7	72.7	43.6	320	69	57	30	68
KPMA(160)-11-1000	11	15	160M	105	1000	92.3	0.95	21.3	53.6	27.5	335	73	60	75.5	81
KPMA(160)-15-1000	15	20	160M	143.2	1000	92.9	0.95	28.9	44.5	22.9	338	73	60	92.6	89
KPMA(160)-18.5-1000	18.5	25	160L	176.7	1000	93.4	0.95	35.4	35.8	18.3	335	73	60	113.2	94

KPM-3000rpm IE4 Cast Iron Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Service Factor	Speed rpm	Full-load (380V)		Rated Current A (380V)	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP					Efficiency %	P.F.			LwA dB(A)	LpA dB(A)		
KPM(132)-22-3000	22	30	132S	70	1	3000	94	0.95	41	113	79	67	30	67
KPM(132)-30-3000	30	40	132M	95.5	1	3000	94.5	0.95	55	113	79	67	40	76
KPM(160)-37-3000	37	50	160M	117.8	1	3000	94.8	0.95	68	114	81	68	76	112
KPM(160)-45-3000	45	60	160M	143.2	1	3000	95	0.95	82	114	81	68	93	132
KPM(160)-55-3000	55	75	160L	175.1	1	3000	95.3	0.95	100	114	81	68	113	163
KPM(180)-75-3000	75	100	180M	238.7	1	3000	95.6	0.95	136	115	83	70	220	258
KPM(180)-90-3000	90	125	180L	286.5	1	3000	95.8	0.95	163	115	83	70	264	340
KPM(200)-110-3000	110	150	200L	350.1	1	3000	96	0.95	199	115	84	71	508	365
KPM(225)-132-3000	132	175	225M	420.2	1	3000	96.2	0.95	238	115	86	73	748	400
KPM(225)-160-3000	160	220	225M	509.3	1	3000	96.3	0.95	288	116	86	73	906	451
KPM(250)-185-3000	185	250	250M	588.9	1	3000	96.4	0.95	333	116	89	75	1536	485
KPM(250)-200-3000	200	270	250M	636.6	1	3000	96.5	0.95	360	116	89	75	1609	670
KPM(280)-220-3000	220	300	280S	700.3	1	3000	96.5	0.95	396	116	89	75	1792	702
KPM(280)-250-3000	250	340	280S	795.8	1	3000	96.5	0.95	450	116	91	77	2697	743
KPM(280)-280-3000	280	380	280S	891.2	1	3000	96.5	0.95	504	116	91	77	3056	860
KPM(280)-315-3000	315	430	280M	1002.6	1	3000	96.5	0.95	567	116	91	77	3416	950

Electrical Performance Parameters

KPM-1500rpm IE4 Cast Iron Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Service Factor	Speed rpm	Full-load (380V)		Rated Current A (380V)	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP					Efficiency %	P.F.			LwA dB(A)	LpFA dB(A)		
KPM(132)-11-1500	11	15	132S	70	1	1500	93.3	0.95	20	224	71	59	30	66
KPM(132)-15-1500	15	20	132M	95.5	1	1500	93.9	0.95	28	225	71	59	40	78
KPM(160)-18.5-1500	18.5	25	160M	117.8	1	1500	94.2	0.95	34	226	73	60	76	115
KPM(160)-22-1500	22	30	160M	140.1	1	1500	94.5	0.95	40	227	73	60	93	135
KPM(160)-30-1500	30	40	160L	191	1	1500	94.9	0.95	55	228	73	60	124	192
KPM(180)-37-1500	37	50	180M	235.5	1	1500	95.2	0.95	67	228	76	63	195	259
KPM(180)-45-1500	45	60	180L	286.5	1	1500	95.4	0.95	82	229	76	63	239	343
KPM(200)-55-1500	55	75	200L	350.1	1	1500	95.7	0.95	100	230	76	63	508	368
KPM(225)-75-1500	75	100	225S	477.5	1	1500	96	0.95	136	230	78	65	788	385
KPM(225)-90-1500	90	125	225M	572.9	1	1500	96.1	0.95	163	231	79	65	1536	463
KPM(250)-110-1500	110	150	250M	700.3	1	1500	96.3	0.95	198	231	79	65	1792	518
KPM(280)-132-1500	132	175	280S	840.3	1	1500	96.4	0.95	238	231	80	66	2517	665
KPM(280)-160-1500	160	220	280M	1018.6	1	1500	96.6	0.95	288	232	80	66	3056	732
KPM(280)-185-1500	185	250	280M	1177.7	1	1500	96.7	0.95	332	232	80	66	3536	789
KPM(280)-200-1500	200	270	280M	1273.2	1	1500	96.7	0.95	359	232	80	66	3835	824
KPM(315)-250-1500	250	340	315S	1591.5	1	1500	96.7	0.95	449	232	88	74	4724	950
KPM(315)-280-1500	280	380	315M	1782.5	1	1500	96.7	0.95	503	232	88	74	5153	995

KPM-1000rpm IE4 Cast Iron Motor

Type	Rated Power		Frame	Full-load Torque Nm.	Service Factor	Speed rpm	Full-load (380V)		Rated Current A (380V)	Ke V/krpm	Noise		Moment of Inertia kgm ² ×10 ⁻³	Weight kg
	kW	HP					Efficiency %	P.F.			LwA dB(A)	LpFA dB(A)		
KPM(132)-7.5-1000	7.5	10	132S	71.6	1	1000	91.3	0.95	14	329	69	57	30	59
KPM(160)-11-1000	11	15	160M	105	1	1000	92.3	0.95	21	332	73	60	76	85
KPM(160)-15-1000	15	20	160M	143.2	1	1000	92.9	0.95	28	334	73	60	93	131
KPM(160)-18.5-1000	18.5	25	160L	176.7	1	1000	93.4	0.95	34	336	73	60	113	165
KPM(180)-22-1000	22	30	180M	210.1	1	1000	93.7	0.95	41	337	73	60	176	193
KPM(180)-30-1000	30	40	180L	286.5	1	1000	94.2	0.95	55	339	73	60	239	233
KPM(200)-37-1000	37	50	200L	353.3	1	1000	94.5	0.95	68	340	73	60	508	257
KPM(225)-45-1000	45	60	225M	429.7	1	1000	94.8	0.95	82	341	74	61	709	367
KPM(225)-55-1000	55	75	225M	525.2	1	1000	95.1	0.95	100	342	74	61	867	396
KPM(250)-75-1000	75	100	250M	716.2	1	1000	95.4	0.95	137	343	76	62	1792	468
KPM(280)-90-1000	90	125	280M	859.4	1	1000	95.6	0.95	163	344	78	64	2637	685
KPM(280)-110-1000	110	150	280M	1050.4	1	1000	95.8	0.95	199	345	78	64	3176	743
KPM(280)-132-1000	132	175	280M	1260.5	1	1000	96	0.95	239	346	78	64	3835	810
KPM(315)-160-1000	160	220	315S	1527.8	1	1000	96.2	0.95	289	346	83	69	4724	932
KPM(315)-185-1000	185	250	315M	1766.6	1	1000	96.2	0.95	334	346	83	69	5153	1000

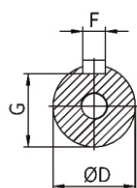
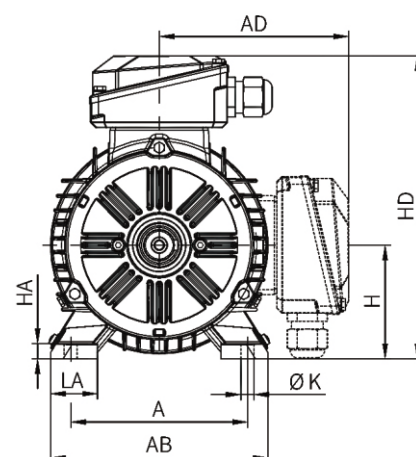
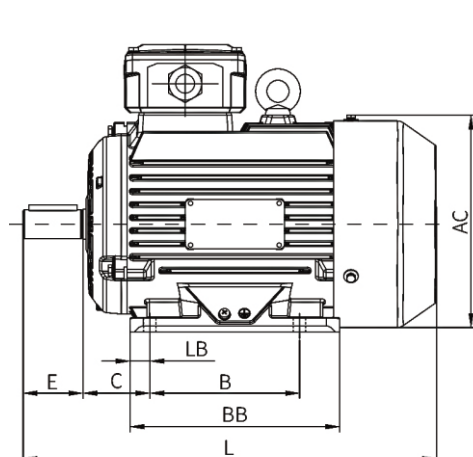
Motor Installation and Dimensions

B3 H56-160 Cast Aluminum

IM B3
IM 1001

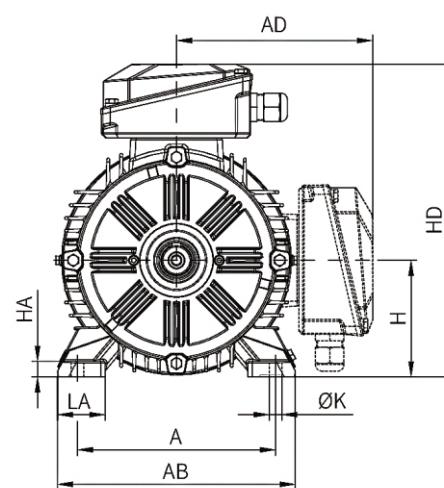
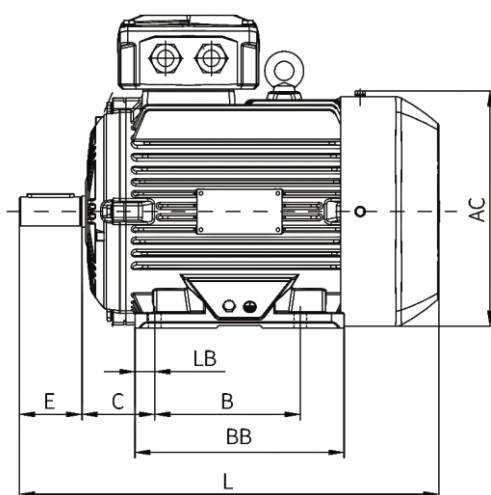
H56~H100

H56~90S Without Eyebolt



IM B3
IM 1001

H112-H160



Motor Installation and Dimensions

Shape and Mounting Dimensions (B3) - Cast Aluminum

Frame	Poles	Mounting Dimensions (mm)									Boundary Dimensions (mm)								
		A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L
56M	2,4,6	90	71	36	9	20	3	7.2	56	6	25	12.5	110	91	7.5	106	96	152	186
63M	2,4,6	100	80	40	11	23	4	8.5	63	7	31	12.5	125	100	8	125	102	165	233
71M	2,4,6	112	90	45	14	30	5	11	71	7	30	14.5	138	115	9	141	110	181	250
90S	2,4,6	140	100	56	24	50	8	20	90	4~10*12	39.5	16.6	172	150	13	177	149	244	329
90L	2,4,6	140	125	56	24	50	8	20	90	4~10*12	39.5	16.6	172	175	13	177	149	244	351
100L	2,4,6	160	140	63	28	60	8	24	100	4~12*14	46.5	19	200	198	13	208	163	268	401
112M	2,4,6	190	140	70	28	60	8	24	112	4~12*14	56.5	19	228	201	15	226	189	305	417
132S	2,4,6	216	140	89	38	80	10	33	132	4~12*14	60	45	262	230	18	260	210	345	450
132M	2,4,6	216	178	89	38	80	10	33	132	4~12*14	60	36	262	250	18	260	210	345	490
160M	2,4,6	254	210	108	42	110	12	37	160	4~14.5*16.5	69.5	27	314	280	20	320	260	422	620
160L	2,4,6	254	254	108	42	110	12	37	160	4~14.5*16.5	69.5	27	314	324	20	320	260	422	665

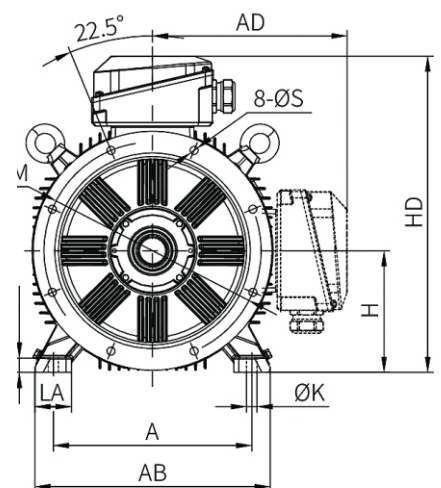
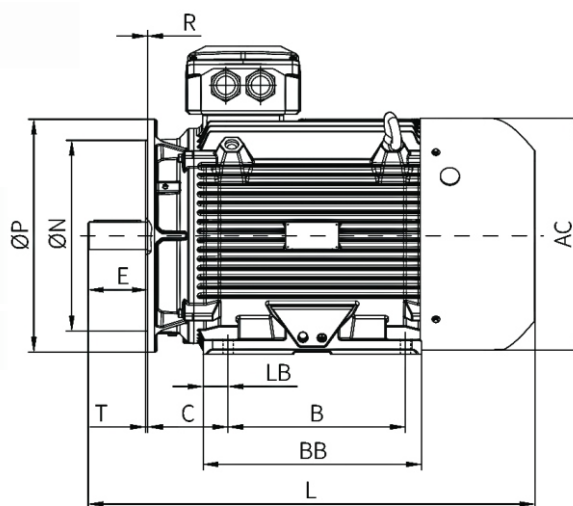
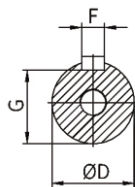
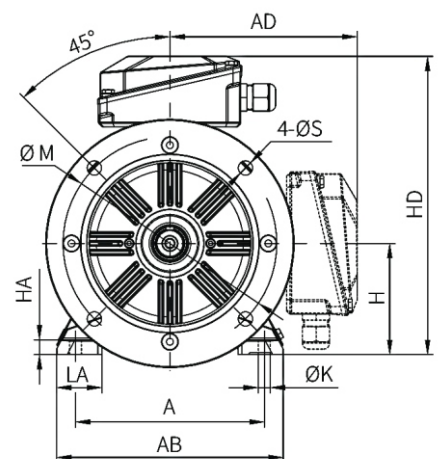
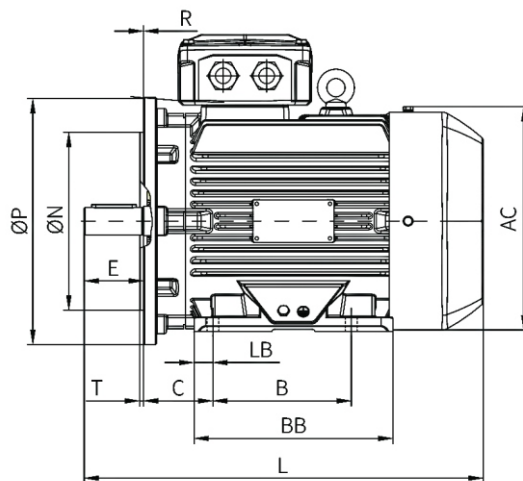
Motor Installation and Dimensions

B3 H132-315 Cast Iron

IM B3
IM 1001

H132-H200

H200 Double Eyebolt



Motor Installation and Dimensions

Shape and Mounting Dimensions (B3) - Cast Iron

Frame	Poles	Mounting Dimensions (mm)									Boundary Dimensions (mm)								
		A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L
132S	2,4,6	216	140	89	38	80	10	33	132	12	56.5	21.5	262	184	18	252	203	340	454
132M/L	2,4,6	216	178	89	38	80	10	33	132	12	56.5	21.5	262	222	18	252	203	340	492
160M	2,4,6	254	210	108	42	110	12	37	160	14.5	65	46	314	280	20	318	256	421	590
160L	2,4,6	254	254	108	42	110	12	37	160	14.5	65	46	314	324	20	318	256	421	634
180M	2,4,6	279	241	121	48	110	14	42.5	180	14.5	68	26.5	349	297	22	360	279	463	655
180L	2,4,6	279	279	121	48	110	14	42.5	180	14.5	68	26.5	349	335	22	360	279	463	693
200L	2,4,6	318	305	133	55	110	16	49	200	18.5	84	30	388	380	25	396	321	526	796
225S	4	356	286	149	60	140	18	53	225	18.5	84	43	431	368	28	442	345	570	846
225M	2	356	311	149	55	110	16	49	225	18.5	84	30.5	431	368	28	442	345	570	841
225M	4,6	356	311	149	60	140	18	53	225	18.5	84	30.5	431	368	28	442	345	570	871
250M	2	406	349	168	60	140	18	53	250	24	80	43	484	421	30	488	421	671	929
250M	4,6	406	349	168	65	140	18	58	250	24	80	43	484	421	30	488	421	671	929
280S	2	457	368	190	65	140	18	58	280	24	84	55	542	460	35	547	449	728	1007
280S	4,6	457	368	190	75	140	20	67.5	280	24	84	55	542	460	35	547	449	728	1007
280M	2	457	419	190	65	140	18	58	280	24	84	58.5	542	515	35	547	449	728	1055
280M	4,6	457	419	190	75	140	20	67.5	280	24	84	58.5	542	515	35	547	449	728	1055
315S	2	508	406	216	65	140	18	58	315	28	115	46	628	540	40	631	507	822	1190
315S	4,6	508	406	216	80	170	22	71	315	28	115	46	628	540	40	631	507	822	1220
315M	2	508	457	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315M	4,6	508	457	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320
315L	2	508	508	216	65	140	18	58	315	28	115	46	628	640	40	631	507	822	1290
315L	4,6	508	508	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320

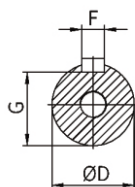
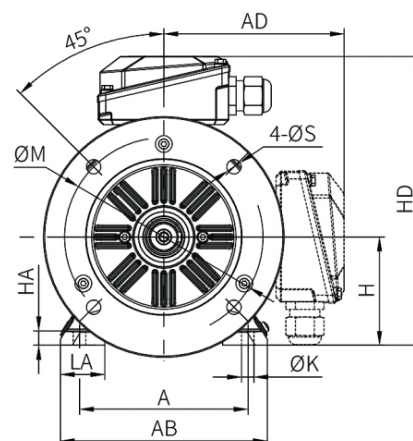
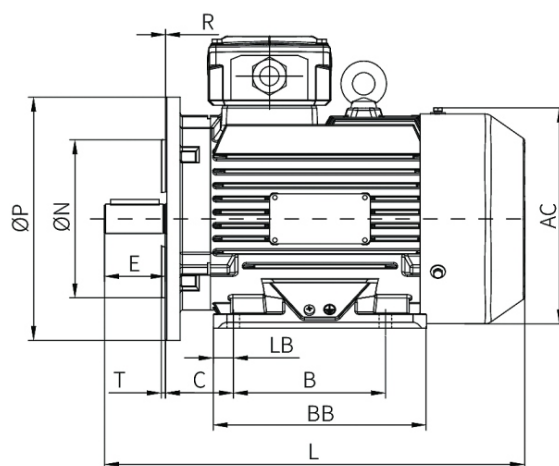
Motor Installation and Dimensions

B35 H56-160 Cast Aluminum

IM B35
IM 2001

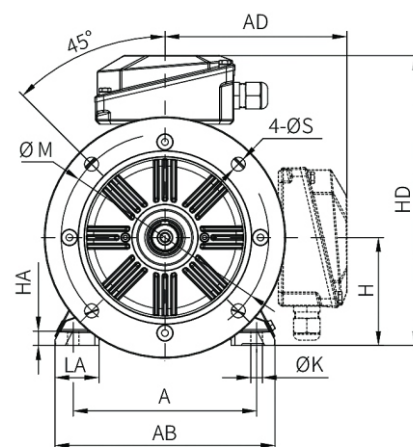
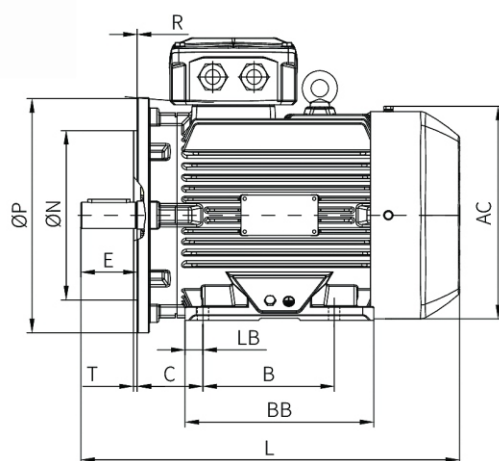
H56~H100

H56~90S Without Eyebolt



IM B35
IM 2001

H112-H160



Motor Installation and Dimensions

Shape and Mounting Dimensions (B35) - Cast Aluminum

Frame	Poles	Mounting Dimensions (mm)															Boundary Dimensions (mm)									
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	AD	HD	L	
56M	2,4,6	90	71	36	9	20	3	7.2	56	6	100	80	120	0	7	3	25	12.5	110	91	7.5	106	96	152	186	
63M	2,4,6	100	80	40	11	23	4	8.5	63	7	115	95	140	0	10	3	31	12.5	125	100	8	125	102	165	233	
71M	2,4,6	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	30	14.5	138	115	9	141	110	181	250	
90S	2,4,6	140	100	56	24	50	8	20	90	4~10*12	165	130	200	0±1.5	12	3.5	39.5	16.6	172	150	13	177	149	244	329	
90L	2,4,6	140	125	56	24	50	8	20	90	4~10*12	165	130	200	0±1.5	12	3.5	39.5	16.6	172	175	13	177	149	244	351	
100L	2,4,6	160	140	63	28	60	8	24	100	4~12*14	215	180	250	0±2.0	14.5	4	46.5	19	200	198	13	208	163	268	401	
112M	2,4,6	190	140	70	28	60	8	24	112	4~12*14	215	180	250	0±2.0	14.5	4	56.5	19	228	201	15	226	189	305	417	
132S	2,4,6	216	140	89	38	80	10	33	132	4~12*14	265	230	300	0±2.0	14.5	4	60	45	262	230	18	260	210	345	450	
132M	2,4,6	216	178	89	38	80	10	33	132	4~12*14	265	230	300	0±2.0	14.5	4	60	36	262	250	18	260	210	345	490	
160M	2,4,6	254	210	108	42	110	12	37	160	4~14.5*16.5	300	250	350	0±3.0	18.5	5	69.5	27	314	280	20	320	260	422	620	
160L	2,4,6	254	254	108	42	110	12	37	160	4~14.5*16.5	300	250	350	0±3.0	18.5	5	69.5	27	314	324	20	320	260	422	665	

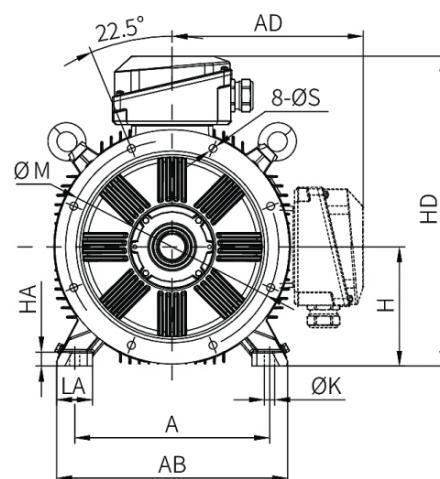
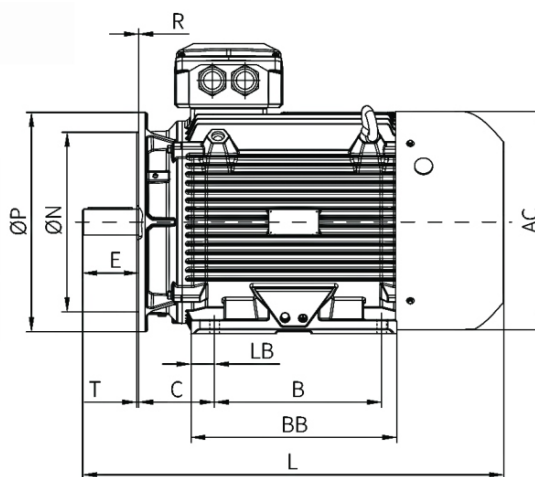
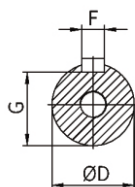
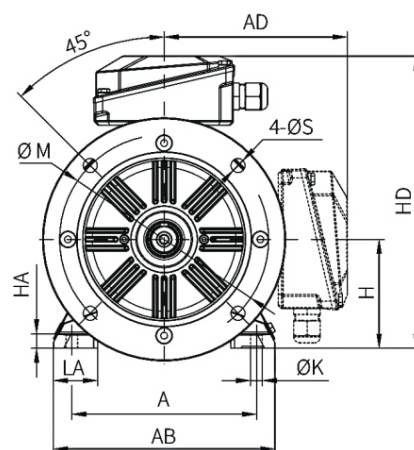
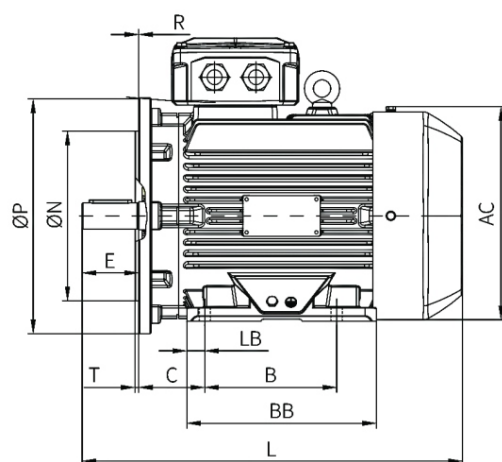
Motor Installation and Dimensions

B35 H132-315 Cast Iron

IM B35
IM 2001

H132-H200

H200 Double Eyebolt



IM B35
IM 2001

H225~H315

Motor Installation and Dimensions

Shape and Mounting Dimensions (B35) - Cast Iron

Frame	Poles	Mounting Dimensions (mm)															Boundary Dimensions (mm)										
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	AD	HD	L		
132S	2,4,6	216	140	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	184	18	252	203	340	454		
132M/L	2,4,6	216	178	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	222	18	252	203	340	492		
160M	2,4,6	254	210	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	46	314	280	20	318	256	421	590		
160L	2,4,6	254	254	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	46	314	324	20	318	256	421	634		
180M	2,4,6	279	241	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	297	22	360	279	463	655		
180L	2,4,6	279	279	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	335	22	360	279	463	693		
200L	2,4,6	318	305	133	55	110	16	49	200	18.5	350	300	400	0±3.0	18.5	5	84	30	388	380	25	396	321	526	796		
225S	4	356	286	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	43	431	368	28	442	345	570	846		
225M	2	356	311	149	55	110	16	49	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	841		
225M	4,6	356	311	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	345	570	841		
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	929		
250M	4,6	406	349	168	65	140	18	58	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	421	671	929		
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007		
280S	4,6	457	368	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	449	728	1007		
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055		
280M	4,6	457	419	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	449	728	1055		
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1190		
315S	4,6	508	406	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	507	822	1220		
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290		
315M	4,6	508	457	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320		
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1290		
315L	4,6	508	508	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	640	40	631	507	822	1320		

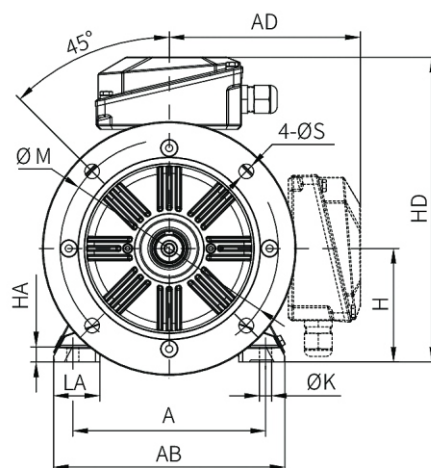
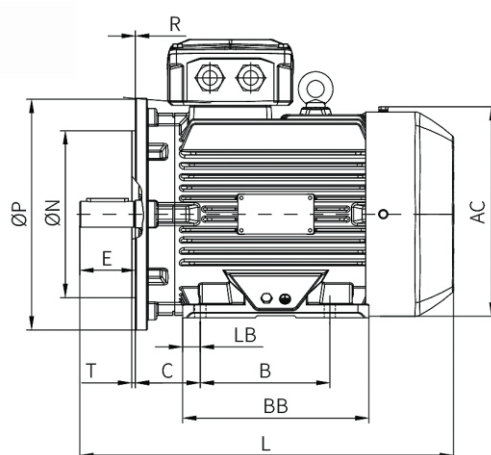
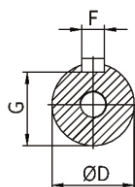
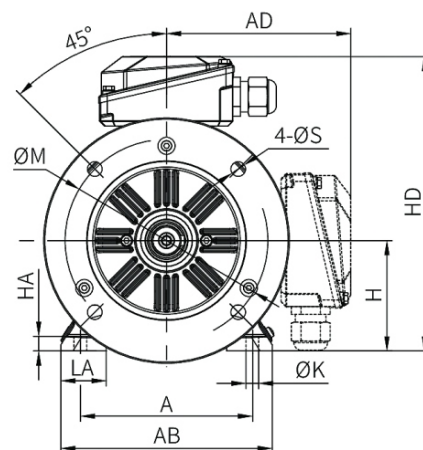
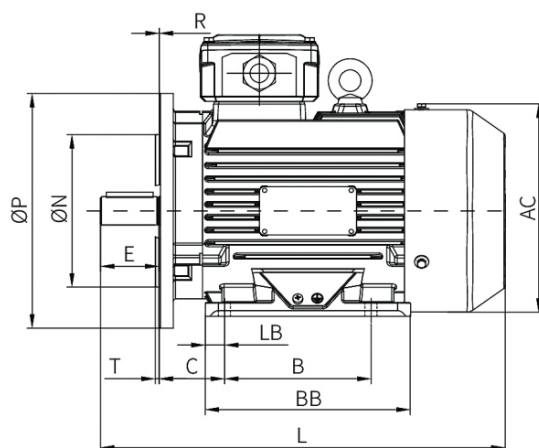
Motor Installation and Dimensions

B5 H56~160/V1 H56~160 Cast Iron

IM B5/IM V1
IM 3001/IM3011

H56~H100

H56~90S Without Eyebolt



Motor Installation and Dimensions

Shape and Mounting Dimensions (B5/V1) - Cast Aluminum

Frame	Poles	Mounting Dimensions (mm)										Boundary Dimensions (mm)			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L
56M	2,4,6	9	20	3	7.2	100	80	120	0	7	3	106	96	156	197
63M	2,4,6	11	23	4	8.5	115	95	140	0	10	3	125	102	172	233
71M	2,4,6	14	30	5	11	130	110	160	0	10	3.5	141	110	190	250
90S	2,4,6	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	329
90L	2,4,6	24	50	8	20	165	130	200	0±1.5	12	3.5	177	149	254	351
100L	2,4,6	28	60	8	24	215	180	250	0±2.0	14.5	4	208	163	293	401
112M	2,4,6	28	60	8	24	215	180	250	0±2.0	14.5	4	226	189	315	417
132S	2,4,6	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	363	450
132M	2,4,6	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	363	490
160M	2,4,6	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	437	620
160L	2,4,6	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	437	665

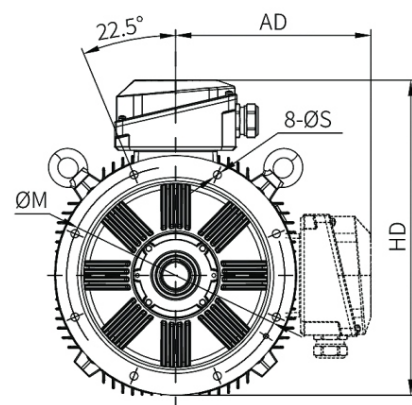
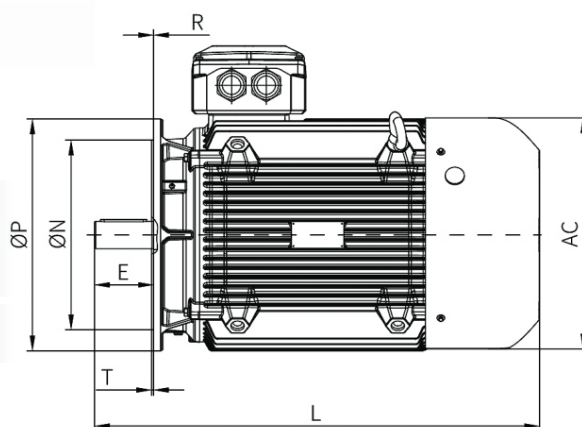
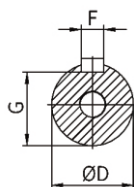
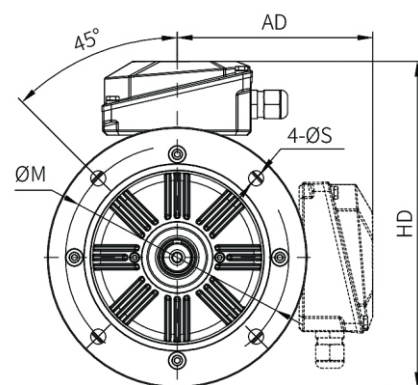
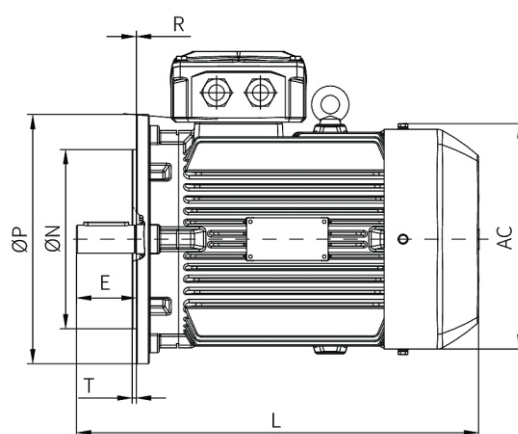
Motor Installation and Dimensions

B5 H132-315/V1 H132-315 Cast Aluminum

IM B5/IM V1
IM 3001/IM3011

H132-H200

H200 Double Eyebolt



IM B5/IM V1
IM 3001/IM3011

H225~H315

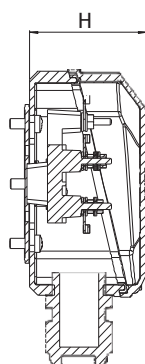
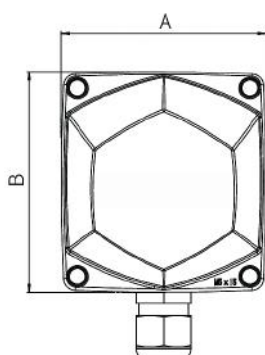
Motor Installation and Dimensions

Shape and Mounting Dimensions (B5/V1) - Cast Iron

Frame	Poles	Mounting Dimensions (mm)										Boundary Dimensions (mm)			
		D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L
132S	2,4,6	38	80	10	33	265	230	300	0±2.0	14.5	4	252	203	358	454
132M	2,4,6	38	80	10	33	265	230	300	0±2.0	14.5	4	252	203	358	492
160M	2,4,6	42	110	12	37	300	250	350	0±3.0	18.5	5	318	256	436	590
160L	2,4,6	42	110	12	37	300	250	350	0±3.0	18.5	5	318	256	436	634
180M	2,4,6	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	458	655
180L	2,4,6	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	458	693
200L	2,4,6	55	110	16	49	350	300	400	0±3.0	18.5	5	396	321	526	796
225S	4	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	846
225M	2	55	110	16	49	400	350	450	0±4.0	18.5	5	442	345	580	841
225M	4,6	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	580	871
250M	2	60	140	18	53	500	450	550	0±4.0	18.5	5	488	421	696	929
250M	4,6	65	140	18	58	500	450	550	0±4.0	18.5	5	488	421	696	929
280S	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1007
280S	4,6	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1007
280M	2	65	140	18	58	500	450	550	0±4.0	18.5	5	547	449	723	1055
280M	4,6	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	723	1055
315S	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1190
315S	4,6	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1220
315M	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315M	4,6	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320
315L	2	65	140	18	58	600	550	660	0±4.0	24	6	631	507	850	1290
315L	4,6	80	170	22	71	600	550	660	0±4.0	24	6	631	507	850	1320

Parts

Terminal Box



Frame	Boundary Dimensions A x B x H (mm)	Number and Size of Outlet Holes	Single Hole Screw Sleeve Can Lock Cable Diameter Range (mm)	Thread of Terminal
H56-H80	90 x 96 x 50	1 - M25 x 1.5	Φ8 - Φ12	M4
H90-H100	102 x 110 x 57.5	1 - M25 x 1.5	Φ8 - Φ12	M4
H112-H132	136 x 146 x 72	2 - M25 x 1.5	Φ8 - Φ12	M5
H160-H180	171 x 181 x 91	2 - M32 x 1.5	Φ16 - Φ21	M6
H200-H225	220 x 230 x 113	2 - M50 x 1.5	Φ32 - Φ39	M8
H250-H280	270 x 280 x 116.5	2 - M63 x 1.5	Φ37 - Φ44	M10
H315	312 x 329 x 175	2 - M63 x 1.5	Φ37 - Φ44	M12

Lifting Ring

Frame	Lifting Ring	Horizontal Installation	
		Quantity	Location
H56-H90S	---	---	---
H90L-H112	M8	1	A lifting ring mounted on top of the frame
H132	M10	1	
H160	M12	1	
H180	M16	1	
H200-H225	M20	2	Two lifting rings, viewed from the shaft extension, one at the front left of the terminal box. The other is located behind the terminal box to the right.
H250-H280	M24	2	
H315	M30	2	

Bearing Type

Frame	Speed r/min	DE	NDE
H56	1000~3000	6200ZZ	6200ZZ
H63	1000~3000	6201ZZ	6201ZZ
H71	1000~3000	6202ZZ	6202ZZ
H80	1000~3000	6204ZZ	6204ZZ
H90	1000~3000	6205ZZ	6203ZZ
H100	1000~3000	6206ZZ	6205ZZ
H112	1000~3000	6206ZZ	6206ZZ
H132	1000~3000	6208ZZ	6208ZZ
H160	1000~3000	6309ZZ	6309ZZ
H180	1000~3000	6310ZZ	6308ZZ

Frame	Speed r/min	DE	NDE
H200	1000~3000	6312	6212
H225	3000	6312	6312
H225	1000~1500	6313	6312
H250	3000	6313	6313
H250	1000~1500	6314	6313
H280	3000	6314	6314
H280	1000~1500	6317	6314
H315	3000	6317	6317
H315	1000~1500	6319	6319

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