



MARATHON[®] HIGH VOLTAGE MOTOR SERIES CATALOGUE

MARATHON® HIGH VOLTAGE MOTOR SERIES

INTRODUCTION

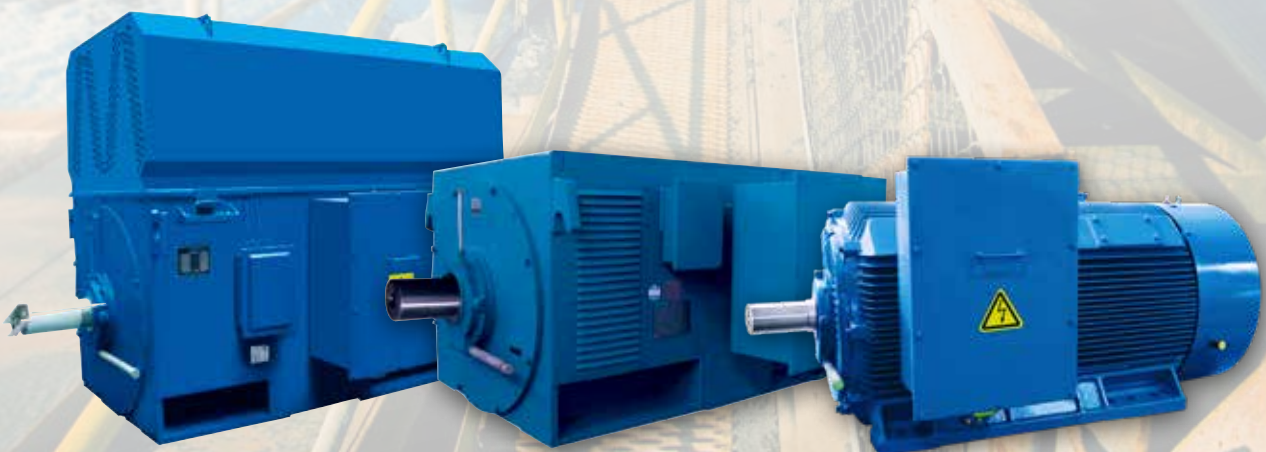
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INTRODUCTION

HIGH VOLTAGE PRODUCT SUMMARY

Marathon® high voltage motors are made of high quality cast iron or fabricated steel frames. With an optimized construction and design, Marathon high voltage motors ensure strong, rigid frames and high power density. The laminations used in stator cores and rotor cores have premium surface insulation and low loss, which ensures higher efficiency.

The Marathon high voltage motor's insulation system is built with high quality insulation material. The high rigidity of its winding ends can endure the intensity of switching and reversing. F class insulation provides the motor with high heat stability and long insulation life.

Copper bar rotor construction is achieved by reliable welding technology, special winding technology and reliable methods to avoid broken bars. Cast aluminum rotors can also be made to specified performance requirements.

The design of bearing and motor construction focuses on motor type forces on the rotor and motor speed. Bearings and lubrication methods are chosen for performance and ease of maintenance.

The paint coating system ensures the motor has a durable coating and appearance for indoor and outdoors applications. Alternative special corrosion protection coatings are available for arduous environments.

PRODUCT RANGE

- HCM cast iron frame IP54, IP55, IP56 2/4/6/8 pole, output 185~1800kW frame size 355~560
- HAA steel fabricated frame IP54 2/4/6/8/10/12/14/16 pole, output 220~ 9000kW, frame size 355 ~ 1000
- HDP open-type steel fabricated frame IP54 2/4/6/8/10/12 pole, output 220 ~ 10000kW, frame size 355 ~ 1000

BASIC

- Protection class: IP23, IP54, IP55, IP56
- Cooling method: IC01 IC411 IC611
- Mounting type: B3
- Duty : S1

AMBIENT

- Temperature range: -20°C to 40°C. Derated up to 60°C
- Ambient humidity: 90% less than relative humidity
- Altitude: less than 1000m above sea level
- Ambient condition: no causticity gas, no dust, no heavy metal pollution, no flame, no salt crystallization
- Supply power: voltage variable $\pm 5\%$, frequency variable: $\pm 2\%$, combine voltage and frequency variable: $\pm 5\%$
- Starting method: direct start at full voltage, or start by no less than 85% full voltage. Suitable for operation on VSD - please specify starting method at time of order.

OTHER OPTIONS

- Space heater
- Heat protector
- Vibration detector
- Special mounting dimension and shaft dimension
- Low vibration and low noise
- Bearing thermometer PT100
- Winding thermometer PT100
- Special painting
- For full list, please see the options section of the catalogue.

INFORMATION FOR ORDERING

Please specify the motor rated output, synchronous speed, voltage, frequency, mounting type, rotation (as seen from shaft extension) and starting method. If any special requirement, for example, non standard mounting dimension, non-standard altitude, special ambient, high locked rotor torque, second shaft, water cooling, vertical mounting, very big axial force etc, please specify in enquiry or directly consult Regal.

RATING PLATE

All nameplates are made of stainless steel, with all information printed by laser. A nameplate contains a lot of useful and important information, such as the motor type number, the rated output, the rated voltage, the rated current, frequency, degree of protection, power factor, insulation method and bearing types.

marathon™ Motors		THREE PHASE INDUCTION MOTOR		IEC60034-1	
3-Mot.Nr.		Rtg S1	IP 55	IM B3	
TYPE	HAA 400-4	Eff 93.1%	Cos ϕ 0.86	Ins.cl F	
Conn:	Y	6000 V	473 HP:	355 kW	
	1485 rpm	42.6 A	50 Hz	PTC ND	
MAX.AMB:	40 °C			3290 kg	
PT-100winding/PT-100bearings					
Brgs. DE : 6324 C3		Brgs. NDE : 6324 C3			
GB30254-2013-Level3					

PERFORMANCE DATA

HCM HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
	kW	HP				RPM	%	%	Full Load	Locked Rotor		Full Load	Locked Rotor	Pull Out
			A	%FLC	Nm				%FLT	%FLT	kg	A	A	A
2 POLE MOTORS														
HCM355-2	185	250	2980	92.7	84.0	41.6	700	588	70	200	1900	45.8	22.9	20.8
HCM355-2	200	270	2980	93.0	84.0	44.7	700	637	70	200	2000	49.2	24.6	22.4
HCM355-2	220	295	2980	93.3	84.0	49.1	700	706	70	200	2100	54.0	27.0	24.6
HCM355-2	250	335	2980	93.6	84.0	55.6	700	804	70	200	2200	61.2	30.6	27.8
HCM355-2	280	375	2980	93.9	86.0	60.7	700	902	70	200	2350	66.8	33.4	30.4
HCM400-2	315	420	2980	94.2	86.0	68.0	700	1010	70	200	2900	74.8	37.4	34.0
HCM400-2	355	475	2980	94.5	86.0	76.4	700	1138	70	200	3000	84.0	42.0	38.2
HCM400-2	400	535	2980	94.8	86.0	85.8	700	1285	70	200	3100	94.4	47.2	42.9
HCM400-2	450	605	2980	95.0	86.0	96.4	700	1442	70	200	3200	106	53.0	48.2
HCM450-2	500	670	2982	94.8	87.0	106	700	1598	70	200	3500	117	58.3	53.0
HCM450-2	560	750	2982	95.1	87.0	118	700	1795	70	200	3600	130	64.9	59.0
HCM450-2	630	845	2982	95.3	87.0	133	700	2020	70	200	3700	146	73.2	66.5
HCM450-2	710	950	2982	95.5	87.0	149	700	2275	70	200	3850	164	82.0	74.5
HCM500-2	800	1070	2982	95.6	88.0	166	700	2560	70	200	5780	183	91.3	83.0
HCM500-2	900	1205	2982	95.8	88.0	187	700	2883	70	200	6050	206	103	93.5
HCM500-2	1000	1340	2982	95.9	88.0	207	700	3207	70	200	6320	228	114	104
HCM500-2	1120	1500	2982	96.0	88.0	233	700	3589	70	200	6600	256	128	117
4 POLE MOTORS														
HCM355-4	185	250	1485	93.3	84.0	41.3	650	1187	80	200	1900	45.4	22.7	20.7
HCM355-4	200	270	1485	93.4	84.0	44.5	650	1285	80	200	2000	49.0	24.5	22.3
HCM355-4	220	295	1485	93.6	84.0	48.9	650	1412	80	200	2100	53.8	26.9	24.5
HCM355-4	250	335	1485	93.8	84.0	55.5	650	1608	80	200	2200	61.1	30.5	27.8
HCM355-4	280	375	1485	94.1	84.0	62.0	650	1804	80	200	2300	68.2	34.1	31.0
HCM400-4	315	420	1485	94.1	85.0	68.9	650	2030	80	200	3000	75.8	37.9	34.5
HCM400-4	355	475	1485	94.3	85.0	77.5	650	2285	80	200	3100	85.3	42.6	38.8
HCM400-4	400	535	1485	94.5	85.0	87.1	650	2569	80	200	3200	95.8	47.9	43.6
HCM400-4	450	605	1485	94.6	85.0	97.8	650	2893	80	200	3300	108	53.8	48.9
HCM450-4	500	670	1485	94.8	86.0	107	650	3511	80	200	3600	118	58.9	53.5
HCM450-4	560	750	1485	95.0	86.0	120	650	3599	80	200	3700	132	66.0	60.0
HCM450-4	630	845	1485	95.3	86.0	135	650	4050	80	200	3800	149	74.3	67.5
HCM450-4	710	950	1485	95.5	86.0	151	650	4570	80	200	3950	166	83.1	75.5
HCM500-4	800	1070	1488	95.5	86.0	170	650	5139	80	200	5820	187	93.5	85.0
HCM500-4	900	1210	1488	95.7	86.0	191	650	5776	80	200	6100	210	105	95.5
HCM500-4	1000	1340	1488	95.8	86.0	213	650	6423	80	200	6280	234	117	107
HCM500-4	1120	1500	1488	95.9	86.0	238	650	7188	80	200	6420	262	131	119
HCM560-4	1250	1680	1488	96.0	87.0	262	650	8032	70	200	8020	288	144	131
HCM560-4	1400	1880	1488	96.1	87.0	293	650	8993	70	200	8390	322	161	147
HCM560-4	1600	2140	1488	96.2	87.0	335	650	10277	70	200	8750	369	184	168
HCM560-4	1800	2410	1488	96.3	87.0	376	650	11562	70	200	9100	414	207	188

Catalogue data is provided as guidance only. Subject to change without notice

PERFORMANCE DATA

HCM HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
	kW	HP				RPM	%	%	Full Load	Locked Rotor		Full Load	Locked Rotor	Pull Out
						A	%FLC	Nm	%FLT	%FLT		A	A	A
6 POLE MOTORS														
HCM355-6	160	215	985	92.9	80.0	37.6	600	1549	80	200	2200	41.4	20.7	18.8
HCM355-6	185	250	985	93.1	80.0	43.4	600	1795	80	200	2300	47.7	23.9	21.7
HCM355-6	200	270	985	93.3	80.0	46.9	600	1942	80	200	2400	51.6	25.8	23.5
HCM400-6	220	295	988	93.5	82.0	50.2	600	2128	80	200	2900	55.2	27.6	25.1
HCM400-6	250	335	988	93.8	82.0	56.7	600	2422	80	200	3000	62.4	31.2	28.4
HCM400-6	280	375	988	94.0	82.0	63.4	600	2707	80	200	3200	69.7	34.9	31.7
HCM400-6	315	420	988	94.2	82.0	71.4	600	3050	80	200	3400	78.5	39.3	35.7
HCM450-6	355	475	988	94.4	83.0	79.3	600	3432	80	200	3500	87.2	43.6	39.7
HCM450-6	400	535	988	94.6	83.0	89.1	600	3874	80	200	3600	98	49.0	44.6
HCM450-6	450	605	988	94.8	83.0	100	600	4354	80	200	3700	110	55.0	50.0
HCM450-6	500	670	988	95.0	83.0	111	600	4835	80	200	3820	122	61.1	55.5
HCM500-6	560	750	990	95.1	83.0	126	600	5403	80	200	5610	139	69.3	63.0
HCM500-6	630	845	990	95.2	83.0	139	600	6080	80	200	5790	153	76.5	69.5
HCM500-6	710	950	990	95.3	83.0	157	600	6855	80	200	6010	173	86.4	78.5
HCM500-6	800	1070	990	95.4	83.0	177	600	7718	80	200	6230	195	97	88.5
HCM560-6	900	1210	990	95.5	84.0	196	600	8689	70	200	7650	216	108	98
HCM560-6	1000	1340	990	95.7	84.0	218	600	9650	70	200	7950	240	120	109
HCM560-6	1120	1500	990	95.8	84.0	244	600	10807	70	200	8250	268	134	122
HCM560-6	1250	1680	990	95.9	84.0	271	600	12062	70	200	8550	298	149	136
8 POLE MOTORS														
HCM400-8	160	215	738	92.7	76.0	39.6	550	2069	80	200	3000	43.6	21.8	19.8
HCM400-8	185	250	738	92.9	76.0	45.8	550	2393	80	200	3100	50.4	25.2	22.9
HCM400-8	200	270	738	93.1	77.0	48.7	550	2589	80	200	3200	53.6	26.8	24.4
HCM400-8	220	295	738	93.3	77.0	53.4	550	2844	80	200	3300	59	29.4	26.7
HCM450-8	250	335	740	93.5	78.0	60.0	550	3226	80	200	3500	66	33.0	30.0
HCM450-8	280	375	740	93.7	78.0	67.1	550	3619	80	200	3600	74	36.9	33.6
HCM450-8	315	420	740	93.9	78.0	75.3	550	4070	80	200	3700	83	41.4	37.7
HCM450-8	355	475	740	94.1	78.0	84.5	550	4580	80	200	3820	93	46.5	42.3
HCM500-8	400	535	742	94.2	79.9	94	550	5148	80	200	5250	103	51.7	47.0
HCM500-8	450	605	742	94.4	79.9	106	550	5796	80	200	5490	117	58.3	53.0
HCM500-8	500	670	742	94.6	80.0	116	550	6443	80	200	5750	128	63.8	58.0
HCM500-8	560	750	742	94.7	80.0	129	550	7208	80	200	6020	142	71.0	64.5
HCM560-8	630	845	745	94.8	81.0	143	550	8081	70	200	7000	157	78.7	71.5
HCM560-8	710	950	745	95.0	81.0	161	550	9110	70	200	7350	177	88.6	80.5
HCM560-8	800	1070	745	95.2	81.0	181	550	10258	70	200	7700	199	99.6	90.5
HCM560-8	900	1210	745	95.3	81.0	204	550	11542	70	200	8100	224	112	102

PERFORMANCE DATA

HCM 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg
2 POLE MOTORS											
HCM400-2	220	295	2980	92.8	84	16.3	700	706	70	200	2900
HCM400-2	250	335	2980	93.3	84	18.4	700	804	70	200	3000
HCM400-2	280	375	2980	93.6	85	20.3	700	902	70	200	3100
HCM400-2	315	420	2980	93.9	85	22.8	700	1010	70	200	3200
HCM450-2	355	475	2982	93.8	86	25.4	700	1138	70	200	3500
HCM450-2	400	535	2982	94.1	86	28.5	700	1285	70	200	3600
HCM450-2	450	605	2982	94.4	86	32.0	700	1442	70	200	3700
HCM450-2	500	670	2982	94.6	86	35.5	700	1598	70	200	3850
HCM500-2	560	750	2985	94.7	87	39.2	700	1795	70	200	5500
HCM500-2	630	845	2985	94.9	87	44.1	700	2020	70	200	5780
HCM500-2	710	950	2985	95.1	87	49.5	700	2275	70	200	6050
HCM500-2	800	1070	2985	95.3	88	55.1	700	2560	70	200	6320
HCM500-2	900	1210	2985	95.5	88	61.8	700	2883	70	200	6600
4 POLE MOTORS											
HCM400-4	220	295	1482	92.7	84	16.3	650	1422	80	200	3000
HCM400-4	250	335	1482	93.1	84	18.5	650	1608	80	200	3100
HCM400-4	280	375	1482	93.4	84	20.6	650	1804	80	200	3200
HCM400-4	315	420	1482	93.6	84	23.1	650	2030	80	200	3300
HCM450-4	355	475	1485	93.9	85	25.6	650	2285	80	200	3500
HCM450-4	400	535	1485	94.1	85	28.9	650	2569	80	200	3600
HCM450-4	450	605	1485	94.4	85	32.4	650	2893	80	200	3700
HCM450-4	500	670	1485	94.6	86	35.5	650	3217	80	200	3800
HCM450-4	560	750	1485	94.8	86	39.7	650	3599	80	200	3950
HCM500-4	630	845	1488	94.9	86	44.6	650	4050	80	200	5820
HCM500-4	710	950	1488	95.1	86	50.1	650	4560	80	200	6100
HCM500-4	800	1070	1488	95.3	87	55.7	650	5139	80	200	6280
HCM500-4	900	1210	1488	95.5	87	62.5	650	5776	80	200	6420
HCM560-4	1000	1340	1488	95.7	86	70.2	650	6423	70	200	8020
HCM560-4	1120	1500	1488	95.8	86	78.5	650	7188	70	200	8390
HCM560-4	1250	1680	1488	95.9	87	86.5	650	8032	70	200	8750
HCM560-4	1400	1880	1488	96.0	87	96.8	650	8993	70	200	9100

PERFORMANCE DATA

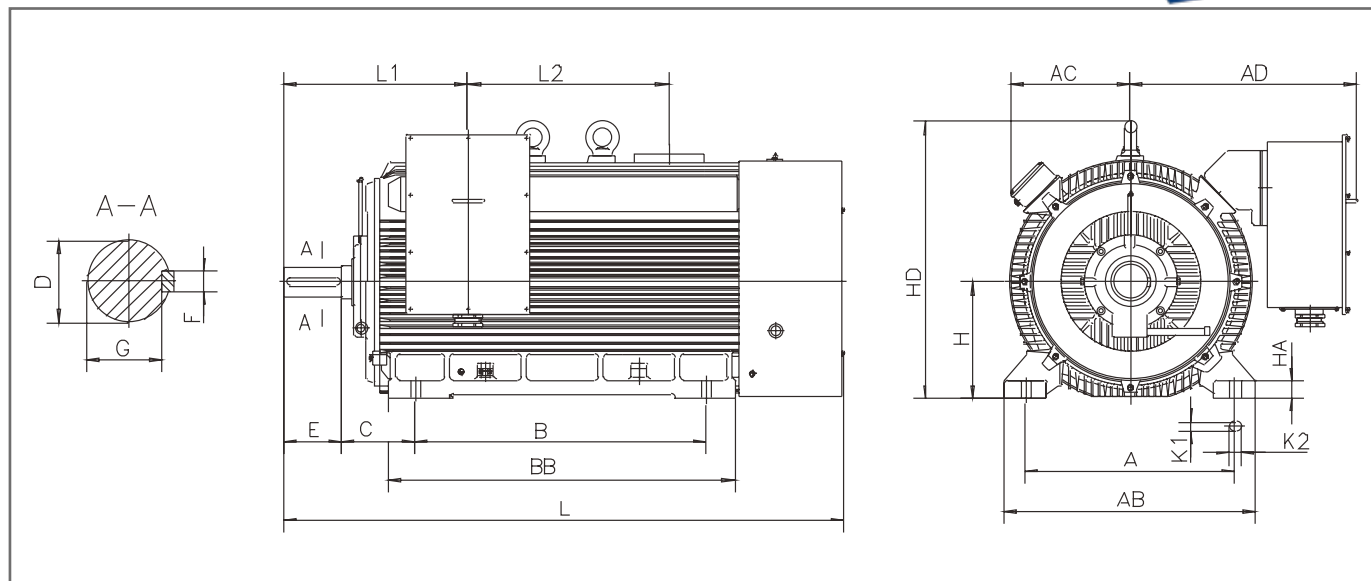
HCM 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight kg
	kW	HP	RPM	%	%	Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out	
						A	%FLC	Nm	%FLT	%FLT	
6 POLE MOTORS											
HCM450-6	220	295	985	92.8	82	16.7	600	2138	80	200	3400
HCM450-6	250	335	985	93.0	82	18.9	600	2422	80	200	3500
HCM450-6	280	375	985	93.2	82	21.2	600	2716	80	200	3600
HCM450-6	315	420	985	93.4	82	23.7	600	3060	80	200	3700
HCM450-6	355	475	985	93.6	82	26.7	600	3442	80	200	3820
HCM500-6	400	535	990	93.7	83	29.7	600	3883	80	200	5450
HCM500-6	450	605	990	93.9	83	33.3	600	4354	80	200	5610
HCM500-6	500	670	990	94.2	83	36.9	600	4835	80	200	5790
HCM500-6	560	750	990	94.4	83	41.3	600	5403	80	200	6010
HCM500-6	630	845	990	94.7	83	46.3	600	6080	80	200	6230
HCM560-6	710	950	992	94.8	83	52.1	600	6835	70	200	7400
HCM560-6	800	1070	992	95.0	83	58.6	600	7708	70	200	7650
HCM560-6	900	1210	992	95.2	84	65.0	600	8669	70	200	7950
HCM560-6	1000	1340	992	95.4	84	72.0	600	9630	70	200	8250
HCM560-6	1120	1500	992	95.5	84	80.6	600	10787	70	200	8550
8 POLE MOTORS											
HCM450-8	220	295	740	92.5	78	17.6	550	2844	80	200	3600
HCM450-8	250	335	740	92.8	78	20.0	550	3226	80	200	3700
HCM450-8	280	375	740	93.0	78	22.3	550	3619	80	200	3820
HCM500-8	315	420	742	93.2	78	25.0	550	4060	80	200	5250
HCM500-8	355	475	742	93.5	78	28.1	550	4570	80	200	5490
HCM500-8	400	535	742	93.7	79	31.2	550	5148	80	200	5750
HCM500-8	450	605	742	93.9	79	35.0	550	5796	80	200	6020
HCM560-8	500	670	745	94.1	80	38.3	550	6414	70	200	6650
HCM560-8	560	750	745	94.3	80	42.9	550	7188	70	200	7000
HCM560-8	630	845	745	94.5	81	47.5	550	8081	70	200	7350
HCM560-8	710	950	745	94.7	81	53.3	550	9110	70	200	7700
HCM560-8	800	1070	745	94.9	81	60.1	550	10258	70	200	8100

DIMENSIONAL DATA

HCM HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR (H355-560)



MOUNTING DIMENSIONS FOR INSTALLATION

Frame size	Poles	Mounting Dimensions (mm)									
		A	B	C	D	E	F	G	H	K1	K2
355	2	630	900	254	75	140	20	67.5	355	28	35
400	2	710	1000	280	85	170	22	76	400	35	42
450	2	800	1120	280	95	170	25	86	450	35	42
500	2	900	1250	315	110	210	28	100	500	42	52
450	4	800	1120	280	120	210	32	109	500	35	42
500	4	900	1250	315	130	250	32	119	500	42	52
560	4	1000	1400	355	150	250	36	138	560	42	52
355	4~6	630	900	254	100	210	28	90	355	28	35
400	4~8	710	1000	280	110	210	28	100	400	35	42
450	6~8	800	1120	280	130	250	32	119	450	35	42
500	6~8	900	1250	315	140	250	36	128	500	42	52
560	6~8	1000	1400	355	160	300	40	147	560	42	52

OUTLINE DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Outline Dimensions (mm)								
		AC	AD	AB	BB	HA	HD	L1	L2	L
355	2	445	775	790	1110	50	830	515	680	1720
400	2	480	900	870	1200	50	960	585	720	1850
450	2	490	925	950	1340	56	1085	650	785	2080
500	2	520	980	1080	1490	65	1200	825	865	2500
450	4	49	925	950	1340	56	1085	690	785	2170
560	4	610	1030	1170	1680	76	1480	8/12	970	2650
355	4~6	445	775	790	1110	50	830	585	680	1825
400	4~8	480	900	870	1200	50	960	635	720	2010
500	4~8	520	980	1080	1490	65	1200	791	865	2400
450	6~8	490	925	950	1340	56	1085	730	785	2210
560	6~8	610	1030	1170	1680	76	1480	862	970	2700

PERFORMANCE DATA

HAA HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight-Weight	FL Current		
	kW	HP				Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out		3kV	6kV	6.6kV
			RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg	A	A	A
2 POLE MOTORS														
HAA355-2	220	295	2975	91.7	85	27.1	700	706	60	180	2500	29.8	14.9	13.6
HAA355-2	250	335	2975	92.0	85	30.8	700	804	60	180	2580	33.9	16.9	15.4
HAA355-2	280	375	2975	92.5	85	34.3	700	902	60	180	2670	37.7	18.9	17.2
HAA355-2	315	420	2975	92.9	85	38.3	700	1010	60	180	2880	42.1	21.1	19.2
HAA400-2	355	475	2980	93.1	86	42.7	700	1138	60	180	2740	47.0	23.5	21.4
HAA400-2	400	535	2980	93.5	86	47.9	700	1285	60	180	3000	52.7	26.3	24.0
HAA400-2	450	605	2980	93.9	86	53.6	700	1442	60	180	3230	59.0	29.5	26.8
HAA400-2	500	670	2980	94.2	86	59.4	700	1608	60	180	3490	65.3	32.7	29.7
HAA450-2	560	750	2980	94.5	86	66.3	700	1795	60	180	4250	73	36.5	33.2
HAA450-2	630	845	2980	94.6	87	73.6	700	2020	60	180	4400	81	40.5	36.8
HAA450-2	710	950	2980	94.7	87	82.9	700	2275	60	180	4500	91	45.6	41.5
HAA450-2	800	1070	2980	94.9	87	93.2	700	2569	60	180	4660	103	51.3	46.6
HAA500-2	900	1210	2980	95.0	87	105	700	2883	60	180	6600	116	57.8	52.5
HAA500-2	1000	1340	2980	95.1	87	116	700	3207	60	180	6850	128	63.8	58.0
HAA500-2	1120	1500	2980	95.2	87	130	700	3589	60	180	7150	143	71.5	65.0
HAA500-2	1250	1680	2980	95.3	87	145	700	4011	60	180	7400	160	79.8	72.5
HAA560-2	1400	1880	2980	95.4	88	160	700	4491	60	180	8860	176	88.0	80.0
HAA560-2	1600	2140	2980	95.5	88	183	700	5129	60	180	9060	201	101	91.5
HAA560-2	1800	2410	2980	95.6	88	206	700	5776	60	180	9280	227	113	103
HAA630-2	2000	2680	2982	95.7	88	229	700	6414	60	180	9550	252	126	115
HAA630-2	2240	3000	2982	95.8	88	256	700	7178	60	180	10100	282	141	128
HAA630-2	2500	3350	2982	95.9	88	285	700	8012	60	180	10600	314	157	143
4 POLE MOTORS														
HAA355-4	185	250	1485	91.9	85	22.8	650	1187	70	180	2150	25.1	12.5	11.4
HAA355-4	200	270	1480	92.1	85	24.6	650	1294	70	180	2210	27.1	13.5	12.3
HAA355-4	220	295	1480	92.4	85	27.0	650	1422	70	180	2300	29.7	14.9	13.5
HAA355-4	250	335	1480	92.6	85	30.6	650	1618	70	180	2390	33.7	16.8	15.3
HAA400-4	280	375	1485	92.5	86	33.8	650	1804	70	180	3090	37.2	18.6	16.9
HAA400-4	315	420	1485	92.8	86	37.9	650	2030	70	180	3190	41.7	20.8	19.0
HAA400-4	355	475	1485	93.1	86	42.6	650	2285	70	180	3290	46.9	23.4	21.3
HAA400-4	400	535	1485	93.2	86	48.0	650	2569	70	180	3400	52.8	26.4	24.0
HAA400-4	450	605	1485	93.4	86	53.9	650	2893	70	180	3510	59.3	29.6	27.0
HAA450-4	500	670	1485	93.8	86	59.6	650	3217	70	180	3800	65.6	32.8	29.8
HAA450-4	560	750	1485	94.0	86	66.6	650	3599	70	180	3890	73.3	36.6	33.3
HAA450-4	630	845	1485	94.2	86	74.8	650	4050	70	180	4030	82.3	41.1	37.4
HAA450-4	710	950	1485	94.5	86	84.0	650	4570	70	180	4140	92.4	46.2	42.0

PERFORMANCE DATA

HAA HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out		3kV	6kV	6.6kV
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg	A	A	A
HAA500-4	800	1070	1485	94.6	87	93.5	650	5148	70	180	5340	103	51.4	46.8
HAA500-4	900	1210	1485	94.7	87	105	650	5796	70	180	5500	116	57.8	52.5
HAA500-4	1000	1340	1485	94.8	87	116	650	6433	70	180	5850	128	63.8	58.0
HAA500-4	1120	1500	1485	94.9	87	130	650	7208	70	180	6120	143	71.5	65.0
HAA560-4	1250	1680	1485	95.0	88	144	650	8041	60	180	7500	158	79.2	72.0
HAA560-4	1400	1880	1485	95.1	88	161	650	9012	60	180	7600	177	88.6	80.5
HAA560-4	1600	2140	1485	95.2	88	184	650	10297	60	180	7730	202	101	92.0
HAA630-4	1800	2410	1485	95.3	88	207	650	11582	60	180	9400	228	114	104
HAA630-4	2000	2680	1485	95.5	88	229	650	12866	60	180	9800	252	126	115
HAA630-4	2240	3000	1485	95.6	88	256	650	14416	60	180	10300	282	141	128
HAA710-4	2800	3730	1490	95.7	87	324	650	17956	50	180	12800	356	178	162
HAA710-4	3150	4200	1490	95.8	87	364	650	20202	50	180	13300	400	200	182
HAA710-4	3550	4760	1490	95.9	87	409	650	22771	50	180	13800	450	225	205
HAA710-4	4000	5330	1490	96.0	87	461	650	25654	50	180	14300	507	254	231
HAA710-4	4500	6000	1490	96.0	88	512	650	28861	50	180	14800	563	282	256
HAA710-4	5000	6670	1490	96.1	88	569	650	32068	50	180	15300	626	313	285
6 POLE MOTORS														
HAA355-6	185	250	985	91.6	82	23.7	600	1795	70	180	2280	26.1	13.0	11.9
HAA355-6	200	270	985	91.9	82	25.5	600	1942	70	180	2380	28.1	14.0	12.8
HAA400-6	185	250	990	91.6	82	23.7	600	1785	70	180	2880	26.1	13.0	11.9
HAA400-6	200	270	990	91.9	82	25.5	600	1932	70	180	2980	28.1	14.0	12.8
HAA400-6	220	295	990	92.1	82	28.0	600	2128	70	180	3100	30.8	15.4	14.0
HAA400-6	250	335	990	92.4	82	31.7	600	2412	70	180	3220	34.9	17.4	15.9
HAA400-6	280	375	990	92.6	82	35.4	600	2707	70	180	3350	38.9	19.5	17.7
HAA400-6	315	420	990	92.8	82	39.8	600	3040	70	180	3500	43.8	21.9	19.9
HAA450-6	355	475	985	93.1	83	44.2	600	3442	70	180	4210	48.6	24.3	22.1
HAA450-6	400	535	985	93.3	83	49.7	600	3883	70	180	4310	54.7	27.3	24.9
HAA450-6	450	605	985	93.5	83	55.8	600	4364	70	180	4540	61.4	30.7	27.9
HAA450-6	500	670	985	93.8	83	61.8	600	4854	70	180	4680	68.0	34.0	30.9
HAA500-6	560	750	990	93.9	84	68.3	600	5403	70	180	5100	75.1	37.6	34.2
HAA500-6	630	845	990	94.1	84	76.6	600	6080	70	180	5200	84.3	42.1	38.3
HAA500-6	710	950	990	94.3	84	86.2	600	6855	70	180	5340	94.8	47.4	43.1
HAA500-6	800	1070	990	94.5	84	96.9	600	7718	70	180	5490	107	53.3	48.5
HAA560-6	900	1210	990	94.6	85	108	650	8689	70	180	7050	119	59.4	54.0
HAA560-6	1000	1340	990	94.8	85	119	650	9650	70	180	7250	131	65.5	59.5
HAA560-6	1120	1500	990	94.9	85	133	650	10807	70	180	7450	146	73.2	66.5
HAA630-6	1250	1680	990	95.0	86	147	650	12062	70	180	9600	162	80.9	73.5

PERFORMANCE DATA

HAA HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
	kW	HP				Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out		3kV	6kV	6.6kV
			RPM	%	%						A			
HAA630-6	1400	1880	990	95.2	86	165	650	13514	70	180	10100	182	90.8	82.5
HAA630-6	1600	2140	990	95.3	86	188	650	15445	70	180	10500	207	103	94.0
HAA710-6	2000	2670	994	95.5	86	234	650	19231	60	180	12500	257	129	117
HAA710-6	2240	3000	994	95.6	86	262	650	21535	60	180	12800	288	144	131
HAA710-6	2500	3330	994	95.7	86	292	650	24036	60	180	13200	321	161	146
HAA710-6	2800	3730	994	95.8	86	327	650	26919	60	180	13600	360	180	164
HAA710-6	3150	4200	994	95.9	86	367	650	30283	60	180	14000	404	202	184
HAA710-6	3550	4760	994	96.0	86	413	650	34127	60	180	14500	454	227	207
8 POLE MOTORS														
HAA400-8	185	250	740	91.6	78	24.9	550	2393	80	180	3230	27.4	13.7	12.5
HAA400-8	200	270	740	91.9	78	26.8	550	2579	80	180	3400	29.5	14.7	13.4
HAA400-8	220	295	740	92.1	78	29.4	550	2844	80	180	3560	32.3	16.2	14.7
HAA450-8	250	335	740	92.3	79	33.0	550	3226	80	180	4110	36.3	18.2	16.5
HAA450-8	280	375	740	92.6	79	36.8	550	3619	80	180	4350	40.5	20.2	18.4
HAA450-8	315	420	740	92.8	79	41.3	550	4070	80	180	4610	45.4	22.7	20.7
HAA450-8	355	475	740	93.0	79	46.4	550	4580	80	180	4850	51.0	25.5	23.2
HAA500-8	400	535	740	93.2	80	51.6	550	5168	80	180	4970	56.8	28.4	25.8
HAA500-8	450	605	740	93.4	80	57.9	550	5815	80	180	5140	63.7	31.8	29.0
HAA500-8	500	670	740	93.6	80	64.2	550	6453	80	180	5330	70.6	35.3	32.1
HAA500-8	560	750	740	93.9	80	71.7	550	7228	80	180	5520	78.9	39.4	35.9
HAA560-8	630	845	740	94.0	82	78.6	600	8140	70	180	7300	86.5	43.2	39.3
HAA560-8	710	950	740	94.2	82	88.4	600	9169	70	180	7525	97.2	48.6	44.2
HAA630-8	900	1210	740	94.5	84	109	600	11621	70	180	9140	120	60.0	54.5
HAA630-8	1000	1340	740	94.7	84	121	600	12915	70	180	9410	133	66.6	60.5
HAA630-8	1120	1500	740	94.8	84	135	600	14465	70	180	9910	149	74.3	67.5
HAA630-8	1250	1680	740	94.9	84	151	600	16142	70	180	10300	166	83.1	75.5
HAA710-8	1600	2130	740	95.0	85	191	650	20663	60	180	12800	210	105	95.5
HAA710-8	1800	2400	740	95.1	85	214	650	23242	60	180	13300	235	118	107
HAA710-8	2000	2670	740	95.2	85	238	650	25831	60	180	13800	262	131	119
HAA710-8	2240	3000	740	95.3	85	266	650	28930	60	180	14300	293	146	133
HAA710-8	2500	3330	740	95.4	85	296	650	32283	60	180	14800	326	163	148
HAA800-8	2240	3000	740	95.3	85	266	650	28930	60	180	16000	293	146	133
HAA710-8	2500	3330	740	95.4	85	296	650	32283	60	180	16800	326	163	148
HAA710-8	2800	3730	740	95.5	85	332	650	36157	60	180	17600	365	183	166
HAA710-8	3150	4200	740	95.6	86	368	650	40678	60	180	18400	405	202	184
HAA710-8	3550	4760	740	95.7	86	415	650	45846	60	180	19200	457	228	208
HAA710-8	4000	5330	740	95.8	86	467	650	51661	60	180	20000	514	257	234

PERFORMANCE DATA

HAA 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 11kV		Torque			Approx Weight
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg
2 POLE MOTORS											
HAA400-2	200	270	2975	91.3	85	14.9	750	647	60	180	2995
HAA400-2	220	295	2975	91.6	85	16.3	750	706	60	180	2995
HAA400-2	250	335	2975	91.8	85	18.5	750	804	60	180	3100
HAA450-2	280	375	2975	92.1	87	20.2	700	902	60	180	3500
HAA450-2	315	420	2975	92.4	87	22.6	700	1010	60	180	3565
HAA450-2	355	475	2980	92.8	87	25.4	700	1138	60	180	3670
HAA450-2	400	535	2980	93.1	87	28.5	700	1285	60	180	3760
HAA450-2	450	605	2980	93.5	87	31.9	700	1442	60	180	3850
HAA450-2	500	670	2980	93.8	87	35.4	700	1608	60	180	3960
HAA500-2	560	750	2980	93.9	88	39.1	700	1795	60	180	4880
HAA500-2	630	845	2980	94.1	88	43.9	700	2020	60	180	4990
HAA500-2	710	950	2980	94.2	88	49.5	700	2275	60	180	5120
HAA500-2	800	1070	2980	94.3	88	55.7	700	2569	60	180	5280
HAA500-2	900	1210	2980	94.4	88	62.6	700	2883	60	180	5420
HAA560-2	1000	1340	2980	94.6	89	68.6	700	3207	60	180	8860
HAA560-2	1120	1500	2980	94.8	89	76.6	700	3589	60	180	9060
HAA560-2	1250	1680	2980	94.9	89	85.4	700	4011	60	180	9280
HAA630-2	1400	1880	2982	95.0	89	95.6	700	4491	60	180	9560
HAA630-2	1600	2140	2982	95.2	89	109	700	5129	60	180	9950
HAA630-2	1800	2410	2982	95.3	89	123	700	5766	60	180	10380
HAA630-2	2000	2680	2982	95.4	89	136	700	6414	60	180	10820
4 POLE MOTORS											
HAA400-4	200	270	1485	91.1	83	15.3	700	1285	70	180	2950
HAA400-4	220	295	1485	91.4	83	16.7	700	1412	70	180	3035
HAA400-4	250	335	1485	91.6	83	19.0	700	1608	70	180	3130
HAA450-4	280	375	1485	91.8	86	20.5	700	1804	70	180	3435
HAA450-4	315	420	1485	92.1	86	23.0	700	2030	70	180	3495
HAA450-4	355	475	1485	92.4	86	25.8	700	2285	70	180	3615
HAA450-4	400	535	1485	92.6	86	29.0	700	2569	70	180	3660
HAA450-4	450	605	1485	93.0	86	32.4	700	2893	70	180	3740
HAA450-4	500	670	1485	93.3	86	36.0	700	3217	70	180	3880
HAA500-4	560	750	1485	93.5	87	39.7	700	3599	70	180	5180
HAA500-4	630	845	1485	93.8	87	44.5	700	4050	70	180	5430
HAA500-4	710	950	1485	94.1	87	50.0	700	4570	70	180	5690
HAA500-4	800	1070	1485	94.3	87	56.3	700	5148	70	180	5940
HAA500-4	900	1210	1485	94.5	87	63.2	700	5796	70	180	6240

PERFORMANCE DATA

HAA 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 11kV		Torque			Approx Weight
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg
HAA560-4	1000	1340	1490	94.6	87	70.1	650	6414	60	180	8610
HAA560-4	1120	1500	1490	94.7	87	78.5	650	7188	60	180	9010
HAA560-4	1250	1680	1490	94.9	87	87.4	650	8022	60	180	9510
HAA560-4	1400	1880	1490	95.0	87	97.8	650	8983	60	180	9900
HAA630-4	1400	1880	1490	95.0	88	96.7	650	8983	60	180	9700
HAA630-4	1600	2140	1492	95.1	88	110	650	10248	60	180	9900
HAA630-4	1800	2410	1492	95.2	88	124	650	11533	60	180	10100
HAA630-4	2000	2680	1492	95.4	88	138	650	12807	60	180	10300
HAA710-4	2240	3000	1488	95.5	86	158	650	14386	60	180	11500
HAA710-4	2500	3330	1488	95.6	86	176	650	16053	60	180	12000
HAA710-4	2800	3730	1488	95.6	86	197	650	17985	60	180	12500
HAA710-4	3150	4200	1488	95.7	86	221	650	20231	60	180	13000
HAA710-4	3550	4760	1488	95.7	87	246	650	22477	60	180	13500
HAA710-4	4000	5330	1488	95.8	87	277	650	25693	60	180	14000
6 POLE MOTORS											
HAA450-6	250	335	980	91.6	82	19.2	600	2442	70	180	4990
HAA450-6	280	375	980	91.9	82	21.5	600	2726	70	180	5140
HAA450-6	315	420	980	92.2	82	24.0	600	3069	70	180	5300
HAA450-6	355	475	980	92.4	82	27.0	600	3462	70	180	5520
HAA500-6	400	535	995	92.5	84	29.7	650	3844	70	180	5010
HAA500-6	450	605	995	92.8	84	33.3	650	4325	70	180	5160
HAA500-6	500	670	995	93.1	84	36.9	650	4805	70	180	6350
HAA500-6	560	750	995	93.4	84	41.2	650	5374	70	180	5540
HAA500-6	630	845	995	93.7	84	46.2	650	6051	70	180	5750
HAA560-6	710	950	995	93.9	85	51.4	650	6816	70	180	8260
HAA560-6	800	1070	995	94.1	85	57.7	650	7688	70	180	8780
HAA560-6	900	1210	995	94.3	85	64.8	650	8640	70	180	9330
HAA560-6	1000	1340	995	94.5	85	71.9	650	9601	70	180	9820
HAA630-6	1120	1500	995	94.7	86	79.4	600	10758	60	180	9400
HAA630-6	1250	1680	995	94.9	86	88.4	600	12003	60	180	9900
HAA630-6	1400	1880	995	95.1	86	98.8	600	13445	60	180	10400
HAA630-6	1600	2140	995	95.2	86	113	600	15367	60	180	10900
HAA710-6	1800	2400	993	95.4	84	130	650	17319	60	180	11200
HAA710-6	2000	2670	993	95.5	84	144	650	19250	60	180	11700
HAA710-6	2240	3000	993	95.5	84	161	650	21555	60	180	12400
HAA710-6	2500	3330	993	95.6	84	180	650	24056	60	180	12900
HAA710-6	2800	3730	993	95.7	84	201	650	26949	60	180	13300

PERFORMANCE DATA

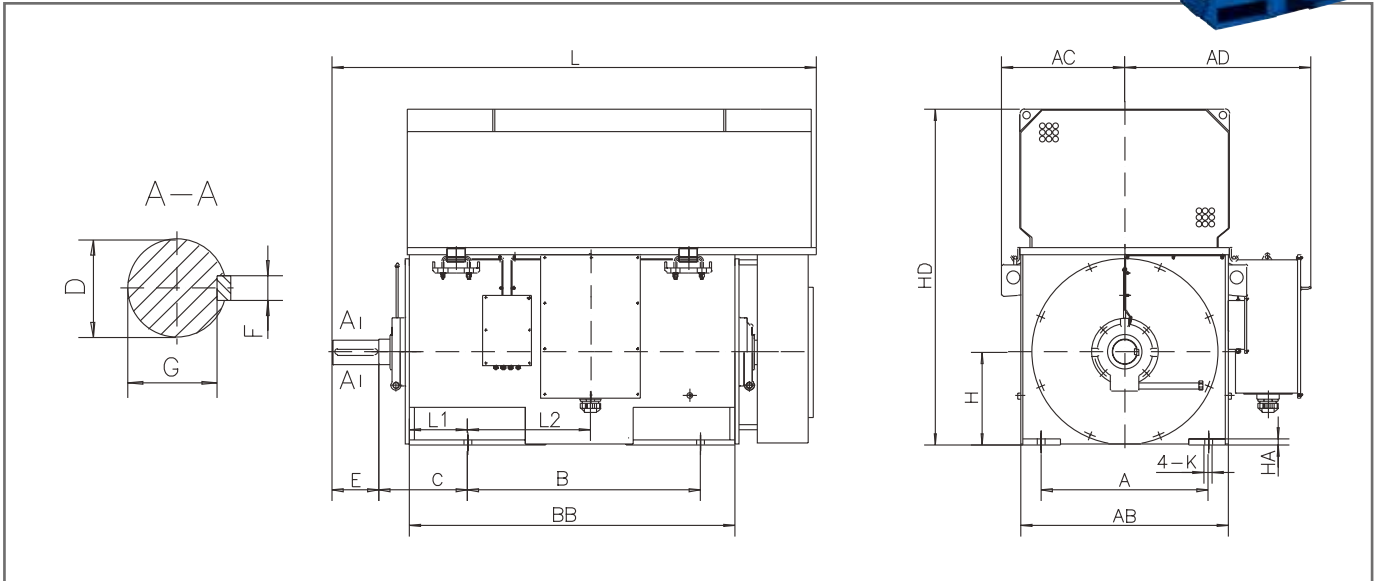
HAA 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 11kV		Torque			Approx Weight
	kW	HP				Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out	
			RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg
8 POLE MOTORS											
HAA450-8	200	270	745	91.1	75	16.9	550	2569	70	180	4960
HAA450-8	220	295	745	91.4	75	18.5	550	2824	70	180	5080
HAA500-8	250	335	745	91.7	77	20.4	600	3207	70	180	5100
HAA500-8	280	375	745	92.0	77	22.8	600	3589	70	180	5250
HAA500-8	315	420	745	92.3	78	25.3	600	4040	70	180	5420
HAA500-8	355	475	745	92.6	78	28.4	600	4550	70	180	5570
HAA500-8	400	535	745	92.8	79	31.5	600	5129	70	180	5720
HAA500-8	450	605	745	93.0	79	35.4	600	5776	70	180	5880
HAA500-8	500	670	745	93.2	79	39.2	600	6414	70	180	6040
HAA560-8	500	670	745	93.2	80	38.7	600	6414	70	180	7720
HAA560-8	560	750	745	93.5	80	43.2	600	7188	70	180	8160
HAA560-8	630	845	745	93.8	81	47.9	600	8081	70	180	8640
HAA560-8	710	950	745	94.0	81	53.8	600	9110	70	180	9160
HAA630-8	710	950	742	94.0	83	52.5	600	9140	70	180	8800
HAA630-8	800	1070	742	94.2	83	59.1	600	10307	70	180	9020
HAA630-8	900	1210	742	94.4	83	66.3	600	11591	70	180	9350
HAA630-8	1000	1340	742	94.6	83	73.5	600	12876	70	180	9700
HAA630-8	1120	1500	742	94.7	83	82.3	600	14426	70	180	10500
HAA710-8	1400	1870	740	94.9	83	103	650	18083	60	180	12400
HAA710-8	1600	2130	740	95.0	83	117	650	20663	60	180	12800
HAA710-8	1800	2400	740	95.1	83	132	650	23242	60	180	13200
HAA710-8	2000	2670	740	95.1	83	146	650	25831	60	180	13600
HAA710-8	2240	3000	740	95.2	83	164	650	28930	60	180	14000
HAA710-8	2500	3330	740	95.3	83	182	650	32283	60	180	14500

DIMENSIONAL DATA

HAA 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR (H400-630)



MOUNTING DIMENSIONS FOR INSTALLATION

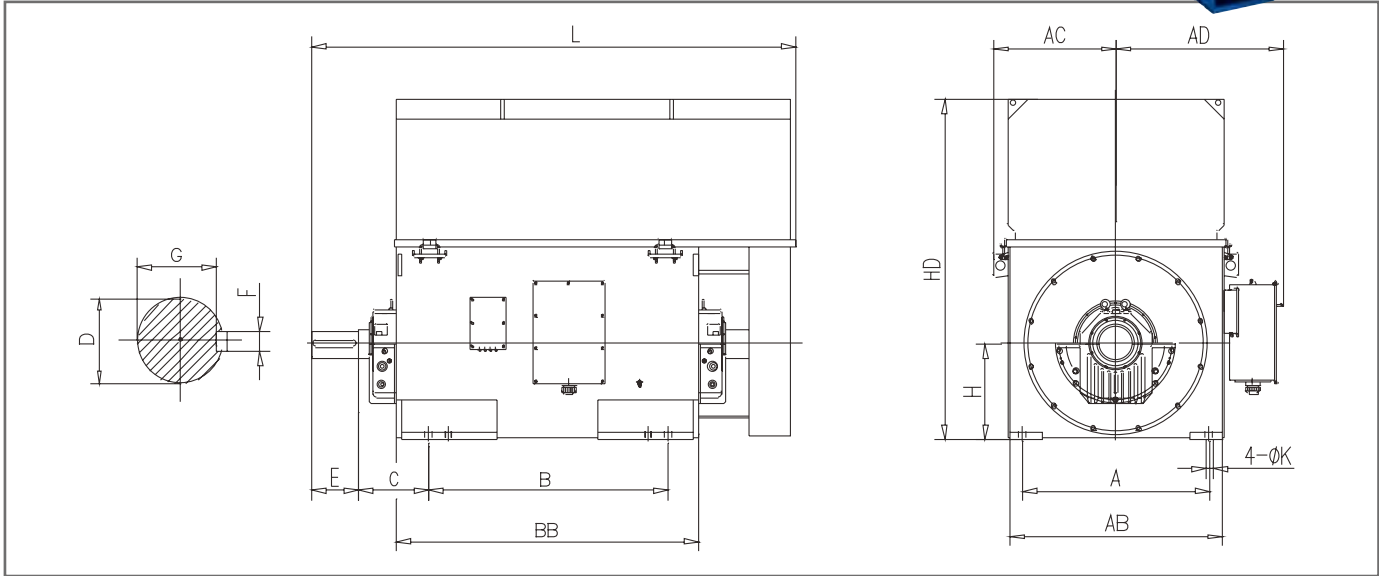
Frame size	Poles	Mounting Dimensions (mm)								
		A	B	C	D	E	F	G	H	K1
400	2	710	1000	375	80	170	22	71	400	35
450	2	800	1120	400	90	170	25	81	450	35
500	2	900	1250	560	100	210	28	90	500	42
560	2	1000	1400	560	130	250	32	119	560	42
630	2	1120	1600	560	140	250	36	128	630	48
500	4	900	1250	475	120	210	32	109	500	42
560	4	1000	1400	500	150	250	36	138	560	42
630	4	1120	1600	530	170	300	40	157	630	48
400	4~8	710	1000	335	110	210	28	100	400	35
450	4~8	800	1120	355	110	210	28	100	450	35
500	6~12	900	1250	475	130	250	32	119	500	42
560	6~12	1000	1400	500	160	300	40	147	560	42
630	6~12	1120	1600	530	180	300	45	165	630	48

OUTLINE DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Outline Dimensions (mm)								
		AC	AD	AB	BB	HA	HD	L1	L2	L
400	2	560	900	908	1450	36	1455	249	606	2200
450	2	605	934	1000	1530	40	1650	250	515	2175
500	2	660	1115	1112	1720	50	2200	330	990	2920
560	2	740	1200	1216	1940	55	2500	270	1120	3400
630	2	850	1350	1396	2080	55	2900	265	1320	3430
500	4	660	1000	1112	1720	35	1805	310	669	2535
560	4	740	1050	1216	1938	45	2120	320	755	2840
400	4~6	560	900	900	1510	30	1455	209	626	2241
450	4~8	600	926	926	1638	32	1650	242	577	2325
630	4~12	825	1150	1150	2120	50	2155	365	685	3044
500	6~12	660	1000	1000	1720	35	1805	310	669	2572
560	6~12	740	1050	1050	1938	45	2120	320	755	2890

DIMENSIONAL DATA

HAA SERIES LARGE THREE PHASE ASYNCHRONOUS MOTOR (H710-1000)



MOUNTING DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Mounting Dimensions (mm)								
		A	B	C	D	E	F	G	H	K1
710	4~16	1400	1800	530	200	350	45	185	710	56
800	4~16	1600	200	530	220	350	50	203	800	56
900	4~16	1800	224	600	250	410	56	230	900	66
1000	4~16	2000	2500	600	280	470	63	260	1000	66

OUTLINE DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Outline Dimensions (mm)						(DE)	(NDE)
		AC	AD	AB	BB	HD	L		
710	4	930	1350	1600	2265	2650	3600	18-180B	18-180BJ
	6~16							18-200B	18-200BJ
800	4	1028	1562	1800	2300	2900	3800	18-200B	18-200BJ
	6~16							22-225B	22-225BJ
900	4	1140	1690	2000	2600	3200	4200	18-200B	18-200BJ
	6~16							22-250B	22-250BJ
1000	4	1280	1820	2300	2900	3400	4600	22-250B	22-250BJ
	6~16							28-280B	28-280BJ

PERFORMANCE DATA

HDP HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
	kW	HP				RPM	%	%	Full Load	Locked Rotor		Full Load	Locked Rotor	Pull Out
			A	%FLC	Nm				%FLT	%FLT	A	A	A	
2 POLE MOTORS														
HDP355-2	220	295	2975	92.6	86	26.6	700	706	60	180	2020	29.3	14.6	13.3
HDP355-2	250	335	2975	92.8	86	30.1	700	804	60	180	2200	33.1	16.6	15.1
HDP355-2	280	375	2975	93.0	86	33.7	700	902	60	180	2370	37.1	18.5	16.9
HDP355-2	315	420	2975	93.3	86	37.8	700	1010	60	180	2480	41.6	20.8	18.9
HDP355-2	355	475	2975	93.6	86	42.4	700	1138	60	180	2700	46.6	23.3	21.2
HDP355-2	400	535	2975	93.9	86	47.7	700	1285	60	180	2850	52.5	26.2	23.9
HDP400-2	450	605	2980	94.1	86	53.5	700	1442	60	180	2630	58.9	29.4	26.8
HDP400-2	500	670	2980	94.3	87	58.6	700	1608	60	180	2750	64.5	32.2	29.3
HDP400-2	560	750	2980	94.5	87	65.5	700	1795	60	180	2880	72	36.0	32.8
HDP400-2	630	845	2980	94.7	87	73.6	700	2020	60	180	3020	81	40.5	36.8
HDP450-2	710	950	2980	94.8	87	82.8	700	2275	60	180	3360	91	45.5	41.4
HDP450-2	800	1070	2980	95.0	87	93.1	700	2569	60	180	3510	102	51.2	46.6
HDP450-2	900	1210	2980	95.2	87	105	700	2883	60	180	3600	116	57.8	52.5
HDP450-2	1000	1340	2980	95.4	88	115	700	3207	60	180	3780	127	63.3	57.5
HDP500-2	1120	1500	2980	95.4	88	128	700	3589	60	180	5690	141	70.4	64.0
HDP500-2	1250	1680	2980	95.6	88	143	700	4011	60	180	5940	157	78.7	71.5
HDP500-2	1400	1880	2980	95.7	88	160	700	4491	60	180	6190	176	88.0	80.0
HDP500-2	1600	2140	2980	95.8	88	183	700	5129	60	180	6450	201	101	91.5
HDP560-2	1800	2410	2980	95.9	88	205	700	5776	60	180	7250	226	113	103
HDP560-2	2000	2680	2980	96.0	88	228	700	6414	60	180	7700	251	125	114
HDP560-2	2240	3000	2980	96.1	88	255	700	7188	60	180	8200	281	140	128
HDP630-2	2500	3350	2982	96.2	89	281	700	8012	60	180	8800	309	155	141
HDP630-2	2800	3750	2982	96.3	89	314	700	8973	60	180	9100	345	173	157
HDP630-2	3150	4220	2982	96.4	89	353	700	10091	60	180	9400	388	194	177
4 POLE MOTORS														
HDP355-4	185	250	1485	92.3	85	22.7	650	1187	80	180	1560	25.0	12.5	11.4
HDP355-4	200	270	1485	92.5	85	24.5	650	1285	80	180	1650	27.0	13.5	12.3
HDP355-4	220	295	1485	92.8	85	26.8	650	1412	80	180	1780	29.5	14.7	13.4
HDP355-4	250	335	1485	93.0	85	30.4	650	1608	80	180	1900	33.4	16.7	15.2
HDP355-4	280	375	1485	93.2	86	33.6	650	1804	80	180	2070	37.0	18.5	16.8
HDP355-4	315	420	1485	93.4	86	37.7	650	2030	80	180	2320	41.5	20.7	18.9
HDP400-4	355	475	1485	93.5	86	42.5	650	2285	80	180	2250	46.8	23.4	21.3
HDP400-4	400	535	1485	93.7	86	47.8	650	2569	80	180	2320	52.6	26.3	23.9
HDP400-4	450	605	1485	93.9	86	53.6	650	2893	80	180	2450	59.0	29.5	26.8
HDP400-4	500	670	1485	94.0	87	58.8	650	3217	80	180	2530	64.7	32.3	29.4
HDP400-4	560	750	1485	94.3	87	65.7	650	3599	80	180	2630	72.3	36.1	32.9

PERFORMANCE DATA

HDP HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current 3.3kV		Torque			Approx Weight	FL Current		
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out		3kV	6kV	6.6kV
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg	A	A	A
HDP450-4	630	845	1485	94.5	87	73.7	650	4050	80	180	3390	81.1	40.5	36.9
HDP450-4	710	950	1485	94.7	87	82.9	650	4570	80	180	3490	91.2	45.6	41.5
HDP450-4	800	1070	1485	94.9	87	93.2	650	5148	80	180	3600	103	51.3	46.6
HDP450-4	900	1210	1485	95.1	87	105	650	5796	80	180	3750	116	57.8	52.5
HDP500-4	1000	1340	1485	95.1	87	116	650	6433	70	180	5000	128	63.8	58.0
HDP500-4	1120	1500	1485	95.2	88	129	650	7208	70	180	5250	142	71.0	64.5
HDP500-4	1250	1680	1485	95.4	88	143	650	8041	70	180	5500	157	78.7	71.5
HDP500-4	1400	1880	1485	95.5	88	160	650	9012	70	180	5750	176	88.0	80.0
HDP560-4	1600	2140	1485	95.6	89	181	650	10297	60	180	6050	199	99.6	90.5
HDP560-4	1800	2410	1485	95.7	89	203	650	11582	60	180	6350	223	112	102
HDP560-4	2000	2680	1485	95.9	89	225	650	12866	60	180	6500	248	124	113
HDP630-4	2240	3000	1492	96.0	89	252	650	14347	60	180	7550	277	139	126
HDP630-4	2500	3350	1492	96.1	89	281	650	16014	60	180	7910	309	155	141
HDP630-4	2800	3750	1493	96.2	89	315	650	17927	60	180	8300	347	173	158
HDP710-4	3150	4200	1490	96.3	87	362	650	20202	so	180	13500	398	199	181
HDP710-4	3550	4760	1490	96.4	87	407	650	22771	so	180	13800	448	224	204
HDP710-4	4000	5330	1490	96.5	87	458	650	25654	50	180	14000	504	252	229
HDP710-4	4500	6000	1490	96.5	87	515	650	28861	so	180	14200	567	283	258
HDP710-4	5000	6670	1490	96.6	88	566	650	32068	50	180	14500	623	311	283
HDP710-4	5600	7470	1490	96.6	88	634	650	35922	so	180	15000	697	349	317
6 POLE MOTORS														
HDP355-6	185	250	985	91.7	82	23.7	600	1795	80	180	1860	26.1	13.0	11.9
HDP355-6	200	270	985	92.0	82	25.5	600	1942	80	180	1980	28.1	14.0	12.8
HDP355-6	220	295	985	92.3	82	28.0	600	2138	80	180	2070	30.8	15.4	14.0
HDP355-6	250	335	985	92.6	82	31.7	600	2422	80	180	2190	34.9	17.4	15.9
HDP400-6	280	375	985	92.8	83	35.0	600	2716	80	180	2810	38.5	19.3	17.5
HDP400-6	315	420	985	93.1	83	39.2	600	3060	80	180	2980	43.1	21.6	19.6
HDP400-6	355	475	985	93.3	83	44.1	600	3442	80	180	3170	48.5	24.3	22.1
HDP400-6	400	535	985	93.5	83	49.6	600	3883	80	180	3320	54.6	27.3	24.8
HDP450-6	450	605	990	93.7	84	55.0	600	4344	80	180	3170	60.5	30.3	27.5
HDP450-6	500	670	990	94.0	85	60.2	600	4825	80	180	3500	66.2	33.1	30.1
HDP450-6	560	750	990	94.2	85	67.3	600	5403	80	180	3750	74.0	37.0	33.7
HDP450-6	630	845	990	94.4	85	75.6	600	6080	80	180	3920	83.2	41.6	37.8
HDP500-6	710	950	990	94.5	85	85.0	600	6855	70	180	4520	93.5	46.8	42.5
HDP500-6	800	1070	990	94.7	85	95.6	600	7718	70	180	4630	105	52.6	47.8
HDP500-6	900	1210	990	94.9	85	107	600	8689	70	180	4770	118	58.9	53.5

PERFORMANCE DATA

HDP HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current		Torque			Approx Weight	FL Current		
						Full Load	Locked Rotor	Full Load	Locked Rotor	Pull Out		3kV	6kV	6.6kV
	kW	HP	RPM	%	%	A	%FLC	Nm	%FLT	%FLT	kg	A	A	A
HDP500-6	1000	1340	990	95.0	85	119	600	9650	70	180	4920	131	65.5	59.5
HDP560-6	1120	1500	991	95.1	86	132	650	10797	70	180	6030	145	72.6	66.0
HDP560-6	1250	1680	991	95.3	86	147	650	12052	70	180	6280	162	80.9	73.5
HDP560-6	1400	1880	991	95.4	86	164	650	13504	70	180	6440	180	90.2	82.0
HDP630-6	1600	2140	993	95.5	86	187	650	15396	70	180	7400	206	103	93.5
HDP630-6	1800	2410	994	95.6	86	210	650	17309	70	180	7750	231	116	105
HDP630-6	2000	2680	994	95.7	86	234	650	19231	70	180	8100	257	129	117
HDP710-6	2240	3000	994	95.8	86	262	650	21535	60	180	13000	288	144	131
HDP710-6	2500	3330	994	95.9	86	292	650	24036	60	180	13200	321	161	146
HDP710-6	2800	3730	994	96.0	86	326	650	26919	60	180	13400	359	179	163
HDP710-6	3150	4200	994	96.1	86	367	650	30283	60	180	13600	404	202	184
HDP710-6	3550	4760	994	96.1	86	413	650	34127	60	180	13800	454	227	207
HDP710-6	4000	5330	994	96.2	86	465	650	38452	60	180	14000	512	256	233
8 POLE MOTORS														
HDP400-8	220	295	740	92.1	78	29.5	550	2844	80	180	2780	32.5	16.2	14.8
HDP400-8	250	335	740	92.3	79	33.0	550	3226	80	180	3130	36.3	18.2	16.5
HDP400-8	280	375	740	92.5	79	36.9	550	3619	80	180	3410	40.6	20.3	18.5
HDP450-8	315	420	740	92.7	80	40.9	550	4070	80	180	3130	45.0	22.5	20.5
HDP450-8	355	475	740	92.9	80	46.0	550	4580	80	180	3350	50.6	25.3	23.0
HDP450-8	400	535	740	93.1	80	51.7	550	5168	80	180	3430	56.9	28.4	25.9
HDP450-8	450	605	740	93.3	81	57.3	550	5815	80	180	3650	63.0	31.5	28.7
HDP500-8	500	670	740	93.7	81	63.4	550	6453	80	180	4310	69.7	34.9	31.7
HDP500-8	560	750	740	93.9	82	70.0	550	7228	80	180	4570	77.0	38.5	35.0
HDP500-8	630	845	740	94.1	82	78.6	550	8140	80	180	4910	86.5	43.2	39.3
HDP500-8	710	950	740	94.3	82	88.4	550	9169	80	180	5190	97.2	48.6	44.2
HDP560-8	800	1070	740	94.4	84	97.1	600	10336	70	180	5920	107	53.4	48.6
HDP560-8	900	1210	740	94.5	84	109	600	11621	70	180	6180	120	60.0	54.5
HDP560-8	1000	1340	740	94.6	84	121	600	12915	70	180	6440	133	66.6	60.5
HDP630-8	1120	1500	744	94.7	84	135	600	14386	70	180	7780	149	74.3	67.5
HDP630-8	1250	1680	744	94.9	84	151	600	16053	70	180	8100	166	83.1	75.5
HDP630-8	1400	1880	744	95.0	84	169	600	17985	70	180	8380	186	93.0	84.5
HDP630-8	1600	2140	744	95.1	84	193	600	20555	70	180	8660	212	106	96.5
HDP710-8	1800	2400	740	95.2	85	214	650	23242	60	180	13200	235	118	107
HDP710-8	2000	2670	740	95.3	85	238	650	25831	60	180	13400	262	131	119
HDP710-8	2240	3000	740	95.5	85	266	650	28930	60	180	13600	293	146	133
HDP710-8	2500	3330	740	95.6	85	296	650	32283	60	180	13800	326	163	148
HDP710-8	2800	3730	740	95.7	85	331	650	36157	60	180	14000	364	182	166

PERFORMANCE DATA

HDP 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current			Torque			Approx Weight
						Full Load	Locked Rotor	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	A	%FLC	kg-m	%FLT	%FLT	kg
2 POLE MOTORS												
HDP400-2	220	295	2980	91.9	85	14.7	110	750	72	60	180	2440
HDP400-2	250	335	2980	92.1	85	16.7	125	750	82	60	180	2560
HDP400-2	280	375	2980	92.4	85	18.7	140	750	92	60	180	2680
HDP400-2	315	420	2980	92.7	85	21.0	158	750	103	60	180	2810
HDP450-2	355	475	2980	93.1	87	23.0	161	700	116	60	180	3340
HDP450-2	400	535	2980	93.4	87	25.8	181	700	131	60	180	3420
HDP450-2	450	605	2980	93.7	87	29.0	203	700	147	60	180	3500
HDP450-2	500	670	2980	94.1	87	32.1	225	700	164	60	180	3600
HDP450-2	560	750	2980	94.3	87	35.8	251	700	183	60	180	3800
HDP450-2	630	845	2980	94.5	87	40.2	281	700	206	60	180	4030
HDP500-2	710	950	2980	94.5	88	44.8	314	700	232	60	180	5400
HDP500-2	800	1070	2980	94.7	88	50.4	353	700	262	60	180	5590
HDP500-2	900	1210	2980	94.8	88	56.6	396	700	294	60	180	5780
HDP500-2	1000	1340	2980	94.9	88	62.8	440	700	327	60	180	5980
HDP500-2	1120	1500	2980	95.0	88	70.43	492	700	366	60	180	6200
HDP560-2	1250	1680	2980	95.2	89	77.5	543	700	409	60	180	6900
HDP560-2	1400	1880	2980	95.4	89	86.5	606	700	458	60	180	7200
HDP560-2	1600	2140	2980	95.5	89	99.1	694	700	523	60	180	7500
HDP630-2	1800	2410	2982	95.6	90	110	770	700	588	60	180	8800
HDP630-2	2000	2680	2982	95.7	90	122	854	700	654	60	180	9200
HDP630-2	2240	3000	2982	95.8	90	136	952	700	732	60	180	9600
4 POLE MOTORS												
HDP400-4	185	250	1480	91.6	83	12.7	88.9	700	122	70	180	2480
HDP400-4	200	270	1480	91.8	83	13.7	95.9	700	132	70	180	2550
HDP400-4	220	295	1480	92.2	83	15.1	106	700	145	70	180	2640
HDP400-4	250	335	1480	92.4	83	17.1	120	700	165	70	180	2750
HDP400-4	280	375	1480	92.6	83	19.1	134	700	184	70	180	2870
HDP400-4	315	420	1480	92.8	83	21.5	151	700	207	70	180	3000
HDP450-4	355	475	1485	92.9	86	23.3	163	700	233	70	180	2850
HDP450-4	400	535	1485	93.1	86	26.2	183	700	262	70	180	2950
HDP450-4	450	605	1485	93.4	86	29.4	206	700	295	70	180	3100
HDP450-4	500	670	1485	93.6	86	32.6	228	700	328	70	180	3250
HDP450-4	560	750	1485	93.9	86	36.4	255	700	367	70	180	3400
HDP450-4	630	845	1485	94.1	86	40.8	286	700	413	70	180	3590
HDP500-4	710	950	1485	94.4	87	45.5	319	700	466	70	180	4530
HDP500-4	800	1070	1485	94.6	87	51.0	357	700	525	70	180	4660

PERFORMANCE DATA

HDP 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current			Torque			Approx Weight
						Full Load	Locked Rotor	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	A	%FLC	kg-m	%FLT	%FLT	kg
HDP500-4	900	1210	1485	94.8	88	56.6	396	700	591	70	180	4820
HDP500-4	1000	1340	1485	94.9	88	62.8	440	700	656	70	180	5110
HDP500-4	1120	1500	1485	95.1	88	70.3	492	541	700	735	70	5440
HDP560-4	1250	1680	1485	95.2	89	77.5	543	700	820	70	180	5900
HDP560-4	1400	1880	1485	95.3	89	87.3	611	700	919	70	180	6200
HDP560-4	1600	2140	1485	95.4	89	99.1	694	700	1050	70	180	6500
HDP630-4	1800	2410	1492	95.6	89	111	777	700	1176	60	180	7580
HDP630-4	2000	2680	1493	95.7	89	124	868	700	1305	60	180	7950
HDP630-4	2240	3000	1493	95.8	89	138	966	700	1462	60	180	8330
HDP710-4	2500	3330	1488	95.9	86	159	1034	650	1637	60	180	11500
HDP710-4	2800	3730	1488	96.0	86	178	1157	650	1834	60	180	12000
HDP710-4	3150	4200	1488	96.1	86	200	1300	650	2063	60	180	12500
HDP710-4	3550	4760	1488	96.2	86	225	1463	650	2292	60	180	13000
HDP710-4	4000	5330	1488	96.3	87	250	1625	650	2620	60	180	13500
HDP710-4	4500	6000	1488	96.3	87	282	1833	650	2947	60	180	14000
6 POLE MOTORS												
HDP450-6	315	420	990	92.5	82	21.8	131	600	310	70	180	3270
HDP450-6	355	475	990	92.8	83	24.2	145	600	349	70	180	3400
HDP450-6	400	535	990	93.0	83	27.3	164	600	394	70	180	3530
HDP450-6	450	605	990	93.4	83	30.5	183	600	443	70	180	3680
HDP500-6	500	670	995	93.4	83	33.8	203	600	490	70	180	4460
HDP500-6	560	750	995	93.7	84	37.4	224	600	548	70	180	4630
HDP500-6	630	845	995	93.9	84	41.9	251	600	617	70	180	4770
HDP500-6	710	950	995	94.1	84	47.1	283	600	695	70	180	5000
HDP500-6	800	1070	995	94.3	84	53.0	318	600	784	70	180	5400
HDP560-6	900	1210	990	94.5	85	58.8	353	600	886	70	180	5700
HDP560-6	1000	1340	990	94.7	85	65.2	391	600	984	70	180	5930
HDP560-6	1120	1500	990	94.9	85	72.8	437	600	1102	70	180	6180
HDP560-6	1250	1680	990	95.1	86	80.2	481	600	1230	70	180	6430
HDP630-6	1400	1880	995	95.3	86	89.6	538	600	1371	60	180	7420
HDP630-6	1600	2140	995	95.4	86	103	618	600	1567	60	180	7780
HDP630-6	1800	2410	995	95.5	86	115	690	600	1763	60	180	8100
HDP710-6	2000	2670	993	95.6	84	131	852	650	1963	60	180	11800
HDP710-6	2240	3000	993	95.7	84	146	949	650	2198	60	180	12300
HDP710-6	2500	3330	993	95.7	84	163	1060	650	2453	60	180	12800
HDP710-6	2800	3730	993	95.8	84	183	1190	650	2748	60	180	13300
HDP710-6	3150	4200	993	95.9	84	205	1332	650	3091	60	180	13800

PERFORMANCE DATA

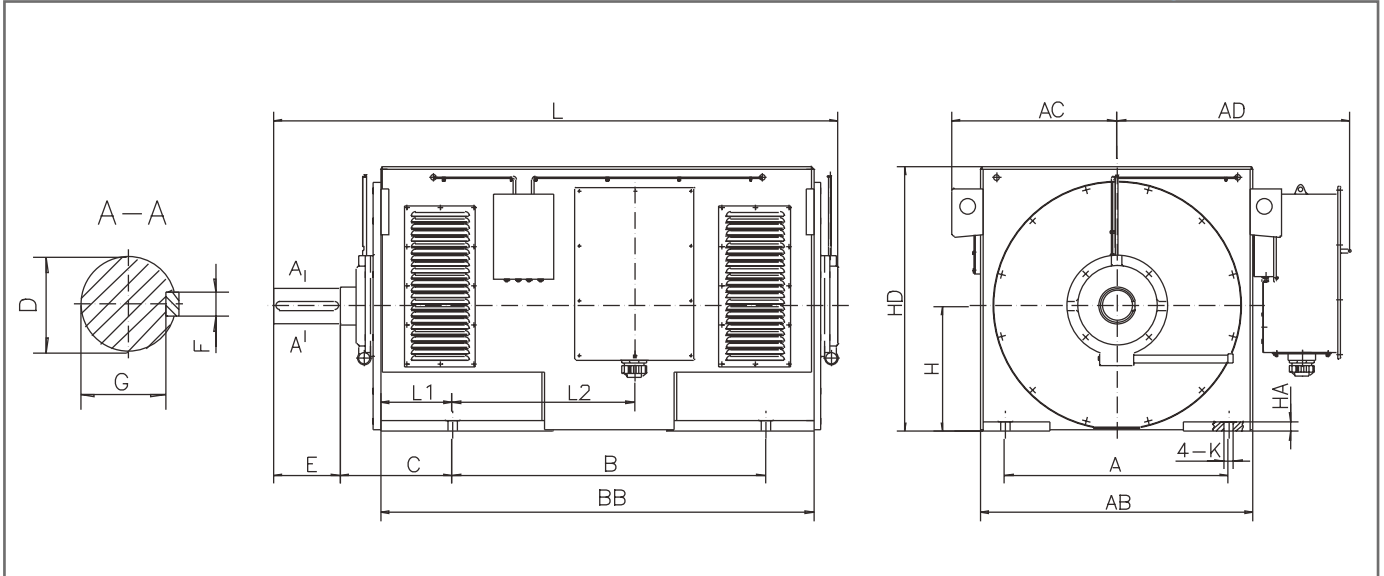
HDP 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR



Motor Type	Rated Output		Rated Speed	Efficiency	Power Factor	Current			Torque			Approx Weight
						Full Load	Locked Rotor	Locked Rotor	Full Load	Locked Rotor	Pull Out	
	kW	HP	RPM	%	%	A	A	%FLC	kg-m	%FLT	%FLT	kg
8 POLE MOTORS												
HDP500-8	280	375	740	92.0	77	20.7	124	600	369	70	180	4050
HDP500-8	315	420	740	92.3	77	23.3	140	600	415	70	180	4150
HDP500-8	355	475	740	92.5	77	26.2	157	600	467	70	180	4470
HDP500-8	400	535	740	92.7	78	29.0	174	600	527	70	180	4560
HDP500-8	450	605	740	92.9	78	32.5	195	600	593	70	180	4850
HDP500-8	500	670	740	93.2	79	25.6	214	600	658	70	180	4970
HDP500-8	560	750	740	93.4	79	39.8	239	600	737	70	180	5120
HDP560-8	630	845	740	93.8	82	43.0	258	600	830	70	180	5570
HDP560-8	710	950	740	94.0	82	48.4	290	600	935	70	180	5820
HDP560-8	800	1070	740	94.2	82	54.4	326	600	1054	70	180	6080
HDP560-8	900	1210	740	94.4	82	61.0	366	600	1185	70	180	6350
HDP630-8	1000	1340	744	94.5	83	67.0	402	600	1310	70	180	7800
HDP630-8	1120	1500	744	94.7	83	74.8	449	600	1467	70	180	8100
HDP630-8	1250	1680	745	94.9	83	83.3	500	600	1635	70	180	8400
HDP710-8	1600	2130	740	95.0	83	106	689	650	2107	60	180	11800
HDP710-8	1800	2400	740	95.0	83	120	780	650	2370	60	180	12300
HDP710-8	2000	2670	740	95.1	83	133	865	650	2634	60	180	12800
HDP710-8	2240	3000	740	95.2	83	149	969	650	2950	60	180	13300
HDP710-8	2500	3330	740	95.3	83	165	1073	650	3292	60	180	13800
HDP710-8	2800	3730	740	95.4	83	185	1203	650	3687	60	180	14300

DIMENSIONAL DATA

HDP 11KV HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR (H400-630)



MOUNTING DIMENSIONS FOR INSTALLATION

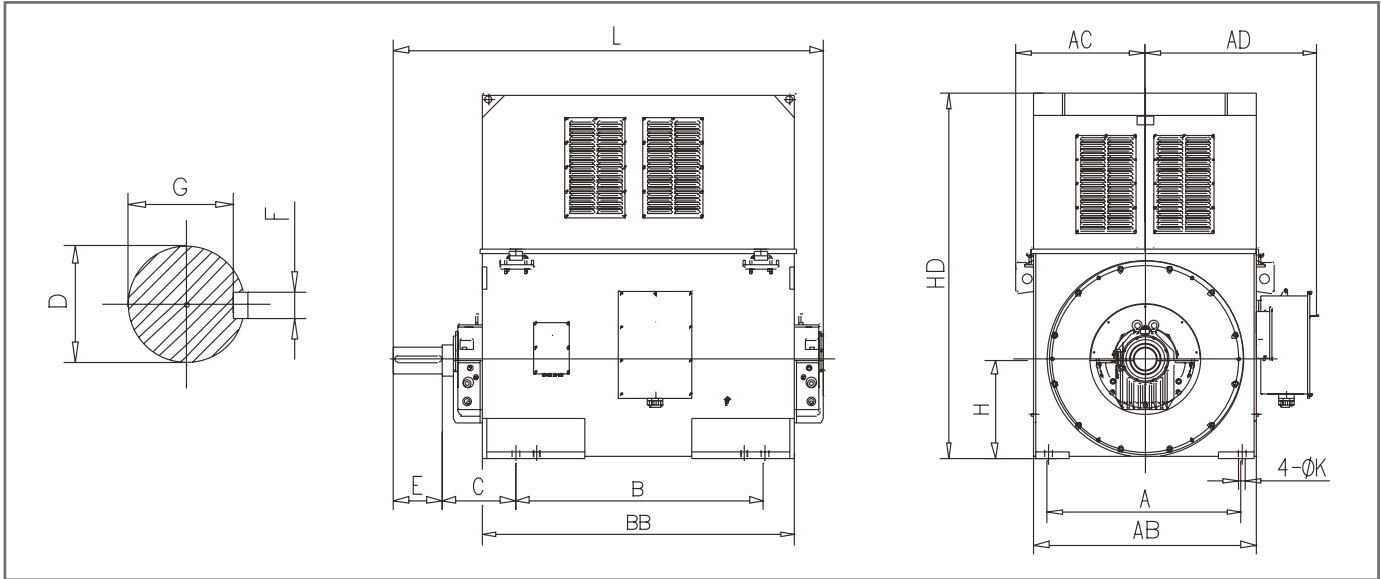
Frame Size	Poles	Mounting Dimensions (mm)								
		A	B	C	D	E	F	G	H	K1
400	2	710	1000	375	80	170	22	71	400	35
450	2	800	1120	400	90	170	25	81	450	35
500	2	900	1250	560	100	210	28	90	500	42
560	2	1000	1400	560	130	250	32	119	560	42
630	2	112	1600	560	140	250	36	128	630	48
500	4	900	1250	475	120	210	32	109	500	42
560	4	1000	1400	500	150	250	36	138	560	42
630	4	1120	1600	530	170	300	40	157	630	48
400	4~8	710	1000	335	110	210	28	100	400	35
450	4~8	800	1120	355	110	210	28	100	450	35
500	6~10	900	1250	475	130	250	32	119	500	42
560	6~12	1000	1400	500	160	300	40	147	560	42
630	6~12	1120	1600	530	180	300	45	165	630	48

OUTLINE DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Outline Dimensions (mm)								
		AC	AD	AB	BB	HA	HD	L1	L2	L
400	2	570	900	900	1450	30	850	249	606	1830
450	2	600	926	980	1530	40	960	255	515	1910
500	2	660	1115	1112	1720	50	1790	230	990	2370
560	2	740	1200	1216	1940	55	1920	270	1120	2650
630	2	850	1350	1396	2100	55	2200	265	1320	2950
500	4	660	1000	1112	1720	35	1065	310	669	2160
560	4	740	1050	1216	1938	45	1185	320	815	2475
400	4~6	570	900	900	1510	30	850	209	626	2000
450	4~8	600	926	980	1638	32	960	242	657	2055
630	4~12	825	1150	1396	2080	50	1307	365	685	2677
500	6~12	660	1000	1112	1720	35	1065	310	669	2200
560	6~12	740	1050	1216	1938	45	1185	320	815	2525

DIMENSIONAL DATA

HDP SERIES LARGE THREE PHASE ASYNCHRONOUS MOTOR (H710)



MOUNTING DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Mounting Dimensions (mm)									
		A	B	C	D	E	F	G	H	K1	
710	4~16	1400	1800	530	200	350	45	185		710	56

OUTLINE DIMENSIONS FOR INSTALLATION

Frame Size	Poles	Outline Dimensions (mm)						(DE)	(NDE)
		AC	AD	AB	BB	HD	L		
710	4	930	1350	1600	2265	2650	3150	18-180B	18-180BJ
	6~16							18-200B	18-200BJ

SELECTION REFERENCE

HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR (HCM HAA HDP)

Variant	Frame Size						
Mounting Arrangements	355	400	450	500	560	630	710
Single-Shaft	S	S	S	S	S	S	S
Double-Shaft	R	R	R	R	R	R	R
B3	S	S	S	S	S	S	S
B35	R	R	R	R	R	R	R
V1	R	R	R	R	R	R	R
Non-standard installation size (footing, shaft, flange)	R	R	R	R	R	R	R
Connection Method							
Coupling	S	S	S	S	S	S	S
Belt	R	R	R	R	R	R	
Gear	R	R	R	R	R	R	
Terminal box							
Terminal box RHS	S	S	S	S	S	S	S
Terminal box LHS or DE or NDE	R	R	R	R	R	R	R
Phase segregated terminal box	R	R	R	R	R	R	R
Additional Options							
Non-standard voltage	R	R	R	R	R	R	R
(50HZ) Standard frequency	S	S	S	S	S	S	S
(60HZ) Non-standard frequency	R	R	R	R	R	R	R
Low noise	R	R	R	R	R	R	R
High starting torque	R	R	R	R	R	R	R
Low starting current	R	R	R	R	R	R	R
(view from DE) Rotation direction	S	S	S	S	S	S	S
Application VSD (2:1 CT frequency range)	R	R	R	R	R	R	R
Water cooled (IC81W)	R	R	R	R	R	R	R
Regreasing facility	S	S	S	S	S	S	S
Protection Class							
IP23, IP54	S	S	S	S	S	S	S
IP24, IP55, IP56, IP65	R	R	R	R	R	R	R
Insulation Class/ Temperature rise class							
Insulation class F/Temperature rise class B	S	S	S	S	S	S	S
Insulation class H	R	R	R	R	R	R	R
Bearing							
Ball bearing (2P)	S	S	S	S	S	S	S
Sleeve bearing				S	S	S	S
Ball bearing (4P and above)	S	S	S	S			
Roller bearing (4P and above, 1 ball and 1 roller)					S	S	
Sliding bearing (4P and above)							S
Angular contact bearing	R	R	R	R	R	R	R
Insulated bearing	R	R	R	R	R	R	R

Note: S= Included as standard
R= On request

SELECTION REFERENCE

HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTOR (HCM HAA HDP)

Variant	Frame Size						
	355	400	450	500	560	630	710
Test							
Routine test	S	S	S	S	S	S	S
Routine test: witnessed	R	R	R	R	R	R	R
Type test: no witness	R	R	R	R	R	R	R
Type test: witnessed	R	R	R	R	R	R	R
Startup mode							
DOL or >85% reduced voltage start	S	S	S	S	S	S	S
Other starting modes	R	R	R	R	R	R	R
Electrical characteristics							
PT100 winding (single)	S	S	S	S	S	S	S
PT100 bearing (single)	S	S	S	S	S	S	S
PT100 winding (double)	R	R	R	R	R	R	R
PT100 bearing (double)	R	R	R	R	R	R	R
PT1000 winding	R	R	R	R	R	R	R
PT1000 bearing	R	R	R	R	R	R	R
Winding PTC	R	R	R	R	R	R	R
Space heater (220-240V)	S	S	S	S	S	S	S
Encoder 1024 PPR	R	R	R	R	R	R	R
Current transformer CT's	R	R	R	R	R	R	R
Lightning arrester	R	R	R	R	R	R	R
Over-voltage protector	R	R	R	R	R	R	R
SPM tube(seismic platform)	R	R	R	R	R	R	R
RAL 5008	S	S	S	S	S	S	S
Alternative paint colour/method	R	R	R	R	R	R	R
Service Factor							
SF 1.0 - (50HZ, 60HZ)	S	S	S	S	S	S	S
SF 1.1, 1.15,1.2,1.25	R	R	R	R	R	R	R
Independent blower	R	R	R	R	R	R	R
Others							
TH -Tropical-proof motor	R	R	R	R	R	R	R
W - Outdoor motor	R	R	R	R	R	R	R
Marine motor	R	R	R	R	R	R	R
Altitude 1000<X≤1500m	R	R	R	R	R	R	R
Altitude 1500<X≤2000m	R	R	R	R	R	R	R
Altitude 2000<X≤2500m	R	R	R	R	R	R	R
Altitude 2500<X≤3000m	R	R	R	R	R	R	R
Altitude 3000<X≤3500m	R	R	R	R	R	R	R
Altitude 3500<X≤4000m	R	R	R	R	R	R	R
Ambient temperature 40°C <X≤50°C	R	R	R	R	R	R	R
Ambient temperature 50°C <X≤55°C	R	R	R	R	R	R	R
Ambient temperature 55°C <X≤60°C	R	R	R	R	R	R	R
Stainless steel hardware	R	R	R	R	R	R	R
Customised steel base	R	R	R	R	R	R	R

Note: 1 HCM footing's mounting dimension not adjustable



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APPLICATION CONSIDERATIONS

The proper selection and application of motors, motor control and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit Australia Pty Ltd and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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