

HHE-315~560 SERIES
6000V & 10000V 50HZ
FROM 110KW TO 2500KW
INSULATION CLASS F
TEMPERATURE RISE 80K
PROTECTION DEGREE IP55
AMBIENT TEMPERATURE -20~+40°C
ELEVATION SITE LESS THAN 1000 M
TOTAL ENCLOSED FAN COOLED IC411
CAST IRON STRUCTURE CONTINUOUS S1
COMPACT HIGH EFFICIENCY ELECTRIC MOTOR
EQUIVALENT STANDARD IEC / DIN EN 60034 60072



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TECHNICAL DATA (ASSURING VALUE, 6000V / 50Hz) -- 2 POLES

Motor Type	Rated Power kW	Current (6000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Moment of inertia J kg·m ²	Weight kg
HHE-315A-2	220	25.2	2975	94.4	0.89	6.2	0.61	2.9	2.1	2865
HHE-315B-2	250	28.6	2975	94.5	0.89	6.3	0.64	2.9	2.4	2900
HHE-315C-2	280	31.6	2975	94.6	0.90	6.7	0.66	2.9	2.7	2950
HHE-315D-2	315	35.6	2975	94.7	0.90	7.3	0.70	3.2	3.1	3040
HHE-355A-2	355	40.0	2980	94.8	0.90	6.8	0.70	3.0	3.3	3075
HHE-355B-2	400	45.0	2980	95.1	0.90	6.7	0.68	2.9	3.5	3160
HHE-355C-2	450	50.0	2980	95.2	0.91	6.6	0.70	2.8	3.7	3215
HHE-355D-2	500	55.5	2980	95.3	0.91	6.6	0.72	2.8	4.0	3280
HHE-400A-2	500	56.0	2980	95.4	0.90	6.1	0.60	2.8	4.3	3630
HHE-400B-2	560	62.7	2980	95.5	0.91	6.3	0.64	2.8	4.5	3700
HHE-400C-2	630	69.7	2980	95.6	0.91	6.5	0.69	2.9	4.9	3820
HHE-400D-2	710	78.5	2980	95.7	0.91	7.0	0.77	3.0	5.3	3950
HHE-450A-2	800	89.3	2985	95.8	0.90	6.3	0.61	2.8	6.0	4700
HHE-450B-2	900	100	2985	95.9	0.90	7.0	0.71	3.0	6.2	4800
HHE-450C-2	1000	110	2985	96.1	0.90	6.0	0.61	2.5	6.8	5000
HHE-450D-2	1120	123	2985	96.2	0.91	6.8	0.74	2.8	7.5	5100
HHE-500A-2	1250	137	2985	96.3	0.91	6.6	0.60	2.9	15	6860
HHE-500B-2	1400	154	2985	96.4	0.91	6.8	0.63	2.9	16	7000
HHE-500C-2	1600	175	2985	96.5	0.91	6.9	0.67	2.9	17	7140
HHE-500D-2	1800	197	2985	96.6	0.91	7.4	0.75	3.0	19	7400
HHE-560A-2	2000	219	2985	96.7	0.91	6.4	0.60	2.7	28	7800
HHE-560B-2	2240	245	2985	96.8	0.91	7.0	0.67	2.9	30	8030
HHE-560C-2	2500	273	2985	96.9	0.91	7.6	0.80	3.0	32	8300

TECHNICAL DATA (ASSURING VALUE, 6000V / 50Hz) -- 4 POLES

Motor Type	Rated Power kW	Current (6000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Moment of inertia J kg·m ²	Weight kg
HHE-315A-4	220	25.5	1475	94.4	0.88	5.2	0.74	2.2	4.2	2900
HHE-315B-4	250	28.9	1475	94.5	0.88	5.1	0.74	2.2	4.9	2970
HHE-315C-4	280	32.4	1475	94.6	0.88	5.4	0.83	2.3	5.6	3050
HHE-315D-4	315	36.3	1475	94.8	0.88	5.9	0.95	2.4	6.3	3120
HHE-355A-4	355	40.9	1480	95.0	0.88	6.4	0.96	2.4	6.5	3220
HHE-355B-4	400	46.0	1480	95.1	0.88	6.3	0.96	2.3	6.8	3290
HHE-355C-4	450	51.1	1480	95.2	0.89	6.2	0.90	2.2	7.1	3340
HHE-355D-4	500	56.7	1480	95.3	0.89	6.2	0.99	2.2	7.4	3400
HHE-400A-4	500	56.7	1480	95.3	0.89	6.0	0.86	2.4	8.0	3970
HHE-400B-4	560	63.5	1480	95.4	0.89	6.0	0.88	2.4	8.5	4080
HHE-400C-4	630	71.3	1480	95.5	0.89	6.1	0.92	2.4	9.3	4170
HHE-400D-4	710	80.3	1480	95.6	0.90	6.2	0.97	2.3	9.8	4250
HHE-450A-4	800	89.4	1485	95.7	0.90	6.1	0.69	2.5	13	5000
HHE-450B-4	900	100	1485	95.8	0.90	6.4	0.75	2.5	15	5200
HHE-450C-4	1000	112	1485	95.9	0.90	6.8	0.82	2.7	16	5450
HHE-450D-4	1120	125	1485	96.0	0.90	6.5	0.79	2.5	18	5700
HHE-500A-4	1250	138	1485	96.1	0.91	6.2	0.70	2.6	33	6850
HHE-500B-4	1400	154	1485	96.2	0.91	6.2	0.70	2.6	35	7040
HHE-500C-4	1600	176	1485	96.3	0.91	6.4	0.72	2.5	37	7180
HHE-500D-4	1800	197	1485	96.5	0.91	6.8	0.79	2.6	39	7330
HHE-560A-4	2000	219	1490	96.7	0.91	6.0	0.64	2.4	63	8170
HHE-560B-4	2240	245	1490	96.8	0.91	6.5	0.73	2.6	68	8420
HHE-560C-4	2500	273	1490	96.9	0.91	6.4	0.72	2.5	76	8660

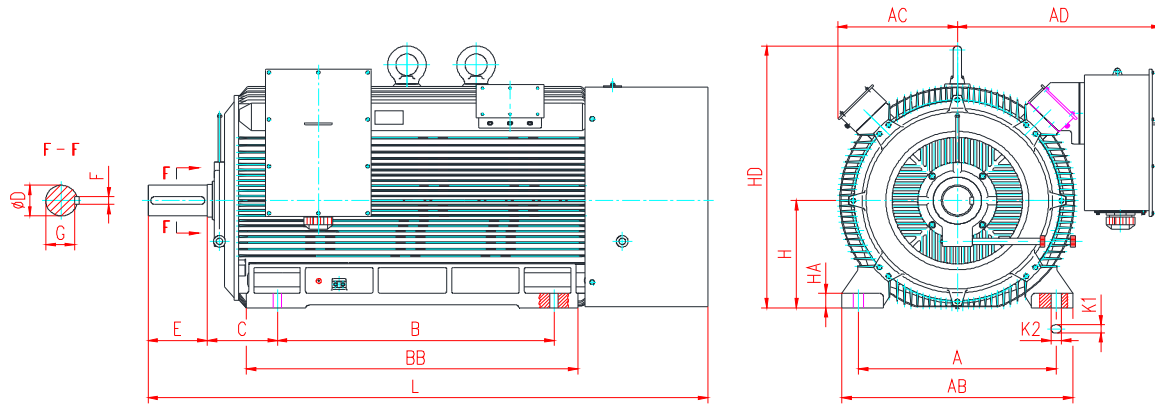
TECHNICAL DATA (ASSURING VALUE, 6000V / 50Hz) -- 6 POLES

Motor Type	Rated Power kW	Current (6000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Moment of inertia J kg·m ²	Weight kg
HHE-315A-6	185	22.2	970	94.2	0.85	5.0	0.90	2.2	6.8	2670
HHE-315B-6	200	24.0	970	94.3	0.85	5.4	1.00	2.3	7.4	2720
HHE-315C-6	220	26.4	970	94.4	0.85	5.6	1.10	2.3	7.9	2850
HHE-315D-6	250	29.9	970	94.6	0.85	5.8	1.20	2.4	8.4	3000
HHE-355A-6	250	29.9	980	94.7	0.85	4.6	0.80	1.9	8.7	3255
HHE-355B-6	280	33.4	980	94.8	0.85	4.9	0.90	2.0	9.2	3345
HHE-355C-6	315	37.6	980	94.9	0.85	5.8	1.10	2.1	9.6	3440
HHE-355D-6	355	42.3	980	95.1	0.85	5.8	1.20	2.2	10.4	3530
HHE-400A-6	400	47.6	980	95.1	0.85	6.2	1.10	2.4	11.8	4010
HHE-400B-6	450	53.5	980	95.3	0.85	6.1	1.10	2.3	12.5	4110
HHE-400C-6	500	58.6	980	95.4	0.86	5.9	1.10	2.2	13.3	4200
HHE-400D-6	560	65.6	980	95.5	0.86	5.9	1.10	2.2	14.2	4290
HHE-450A-6	630	73.7	985	95.6	0.86	5.2	0.90	2.0	16	5100
HHE-450B-6	710	83.0	985	95.7	0.86	5.3	0.90	1.9	18	5300
HHE-450C-6	800	93.4	985	95.8	0.86	5.5	1.00	2.0	20	5500
HHE-450D-6	900	105	985	95.9	0.86	6.0	1.10	2.1	22	5700
HHE-500A-6	1000	117	985	96.0	0.86	6.2	1.10	2.1	44	6820
HHE-500B-6	1120	130	985	96.1	0.86	6.0	1.10	2.0	46	7000
HHE-500C-6	1250	145	985	96.2	0.86	5.9	1.10	2.0	48	7170
HHE-500D-6	1400	163	985	96.3	0.86	5.9	1.10	1.9	51	7360
HHE-560A-6	1600	184	990	96.4	0.87	4.9	0.90	1.8	97	8300
HHE-560B-6	1800	206	990	96.5	0.87	5.2	0.90	1.8	101	8550
HHE-560C-6	2000	229	990	96.6	0.87	5.7	1.00	1.9	106	8780

TECHNICAL DATA (ASSURING VALUE, 6000V / 50Hz) -- 8 POLES

Motor Type	Rated Power kW	Current (6000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Moment of inertia J kg·m ²	Weight kg
HHE-315A-8	110	15.1	735	93.6	0.75	5.6	0.9	2.4	3.9	2990
HHE-315B-8	132	18.1	735	93.8	0.75	5.6	0.9	2.4	4.5	3050
HHE-315C-8	160	21.6	735	93.9	0.76	5.1	1.1	2.1	5.3	3130
HHE-315D-8	185	24.9	735	94.0	0.76	5.1	1.1	2.1	6.0	3200
HHE-355A-8	200	26.2	740	94.1	0.78	5.4	1.2	2.4	6.8	3270
HHE-355B-8	220	28.8	740	94.3	0.78	5.3	1.2	2.4	7.5	3350
HHE-355C-8	250	32.3	740	94.4	0.79	4.9	1.1	2.2	8.2	3430
HHE-355D-8	280	36.1	740	94.5	0.79	4.8	1.0	2.1	9.1	3510
HHE-400A-8	315	39.6	740	94.6	0.81	4.9	0.9	2.1	13	4020
HHE-400B-8	355	44.5	740	94.7	0.81	4.7	0.9	1.9	14	4090
HHE-400C-8	400	50.1	740	94.8	0.81	4.6	0.9	1.9	15	4200
HHE-400D-8	450	56.3	740	94.9	0.81	4.6	0.9	1.9	16	4310
HHE-450A-8	500	61.7	740	95.1	0.82	4.6	0.9	2.0	19	5100
HHE-450B-8	560	69.0	740	95.2	0.82	4.9	1.0	2.0	21	5300
HHE-450C-8	630	77.5	740	95.4	0.82	5.2	1.1	2.1	23	5500
HHE-450D-8	710	87.2	740	95.5	0.82	5.8	1.3	2.3	25	5700
HHE-500A-8	800	97.0	740	95.6	0.83	5.4	1.1	2.1	44	6800
HHE-500B-8	900	109	740	95.7	0.83	5.3	1.0	2.1	46	6950
HHE-500C-8	1000	121	740	95.8	0.83	5.3	1.0	2.1	48	7190
HHE-500D-8	1120	135	740	95.9	0.83	5.2	1.0	2.0	51	7320
HHE-560A-8	1250	151	745	96.0	0.83	5.1	0.9	2.0	120	8400
HHE-560B-8	1400	169	745	96.1	0.83	5.4	1.0	2.0	128	8600
HHE-560C-8	1600	193	745	96.2	0.83	5.6	1.0	2.1	134	8800

B3 MOUNTING DIMENSIONS AND OUTLINE DIMENSIONS (6000V / 50HZ)



Frame Size	Poles	Mounting Dimensions (mm)									
		A	B	C	D	E	F	G	H	K1	K2
315	2P	630 +1.40 -1.40	900 +1.40 -1.40	254 +4.0 -4.0	75 +0.030 +0.011	140 +0.50 -0.50	20 0 -0.052	67.5 0 -0.2	315 0 -1.0	28 +0.52 0	35
315	4,6,8P	630 +1.40 -1.40	900 +1.40 -1.40	254 +4.0 -4.0	100 +0.035 +0.013	210 +0.57 -0.57	28 0 -0.052	90 0 -0.2	315 0 -1.0	28 +0.52 0	35
355	2P	630 +1.40 -1.40	900 +1.40 -1.40	254 +4.0 -4.0	80 +0.030 +0.011	140 +0.57 -0.57	22 0 -0.052	71 0 -0.2	355 0 -1.0	35 +0.62 0	47
355	4,6,8P	630 +1.40 -1.40	900 +1.40 -1.40	254 +4.0 -4.0	100 +0.035 +0.013	210 +0.57 -0.57	28 0 -0.052	90 0 -0.2	355 0 -1.0	35 +0.62 0	47
400	2P	710 +1.75 -1.75	1000 +1.75 -1.75	280 +4.0 -4.0	85 +0.030 +0.011	170 +0.50 -0.50	22 0 -0.052	76 0 -0.2	400 0 -1.0	35 +0.62 0	47
400	4,6,8P	710 +1.75 -1.75	1000 +1.75 -1.75	280 +4.0 -4.0	110 +0.035 +0.013	210 +0.57 -0.57	28 0 -0.052	100 0 -0.2	400 0 -1.0	35 +0.62 0	47
450	2P	800 +1.75 -1.75	1120 +1.75 -1.75	280 +4.0 -4.0	95 +0.030 +0.011	170 +0.50 -0.50	25 0 -0.052	86 0 -0.2	450 0 -1.0	35 +0.62 0	47
450	4,6,8P	800 +1.75 -1.75	1120 +1.75 -1.75	280 +4.0 -4.0	120 +0.035 +0.013	210 +0.57 -0.57	32 0 -0.062	109 0 -0.2	450 0 -1.0	35 +0.62 0	47
500	2P	900 +2.10 -2.10	1250 +2.10 -2.10	450 +4.0 -4.0	110 +0.035 +0.013	210 +0.57 -0.57	28 0 -0.052	100 0 -0.2	500 0 -1.0	42 +0.62 0	60
500	4,6,8P	900 +2.10 -2.10	1250 +2.10 -2.10	315 +4.0 -4.0	140 +0.040 +0.015	250 +0.57 -0.57	36 0 -0.062	128 0 -0.3	500 0 -1.0	42 +0.62 0	60
560	2P	1000 +2.10 -2.10	1400 +2.10 -2.10	530 +4.0 -4.0	130 +0.040 +0.015	250 +0.57 -0.57	32 0 -0.062	119 0 -0.3	560 0 -1.0	42 +0.62 0	60
560	4,6,8P	1000 +2.10 -2.10	1400 +2.10 -2.10	355 +4.0 -4.0	160 +0.040 +0.015	300 +0.65 -0.65	40 0 -0.062	147 0 -0.3	560 0 -1.0	42 +0.62 0	60

Frame Size	Poles	Mounting Dimensions (mm)						
		AC	AD	AB	BB	HA	HD	L
315	2P	335	750	730	1200	45	780	2000
315	4,6,8P	335	750	730	1200	45	780	2070
355	2P	365	860	790	1200	52	960	2000
355	4,6,8P	365	860	790	1200	52	960	2070
400	2P	410	860	870	1300	52	1050	2200
400	4,6,8P	410	860	870	1300	52	1050	2240
450	2P	460	930	950	1400	56	1150	2310
450	4,6,8P	460	930	950	1400	56	1150	2350
500	2P	515	970	1080	1490	65	1200	2610
500	4,6,8P	515	970	1080	1490	65	1200	2380
560	2P	600	1030	1180	1680	76	1480	2900
560	4,6,8P	600	1030	1180	1680	76	1480	2600

TECHNICAL DATA (ASSURING VALUE, 10000V / 50Hz) -- 2 POLES

Motor Type	Rated Power kW	Current (10000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Flywheel inertia J kg·m ²	Weight kg
HHE-450A-2	220	16.3	2985	92.8	0.84	7.0	0.7	2.0	17.0	2730
HHE-450B-2	250	18.5	2985	93.0	0.84	7.0	0.7	2.0	18.0	2800
HHE-450C-2	280	20.2	2985	93.1	0.86	7.0	0.7	2.0	19.5	2930
HHE-450D-2	315	22.7	2985	93.3	0.86	7.0	0.7	2.0	21.0	3120
HHE-450E-2	355	25.5	2985	93.5	0.86	7.0	0.7	2.0	22.0	3200
HHE-450F-2	400	28.6	2985	93.8	0.86	7.0	0.7	2.0	24.0	3300
HHE-450G-2	450	32.2	2985	93.9	0.86	7.0	0.7	2.0	27.0	3500
HHE-450H-2	500	35.3	2985	94.0	0.87	7.0	0.7	2.0	30.0	3600
HHE-500A-2	560	39.5	2985	94.2	0.87	7.0	0.7	2.0	48.0	5050
HHE-500B-2	630	44.3	2985	94.4	0.87	7.0	0.7	2.0	54.0	5200
HHE-500C-2	710	49.8	2985	94.6	0.87	7.0	0.7	2.0	61.0	5360
HHE-500D-2	800	55.4	2985	94.8	0.88	7.0	0.7	2.0	65.0	5500
HHE-500E-2	900	62.2	2985	95.0	0.88	7.0	0.7	2.0	69.0	5640
HHE-500F-2	1000	69.0	2985	95.1	0.88	7.0	0.7	2.0	75.0	5680
HHE-560A-2	1120	76.2	2985	95.3	0.89	7.0	0.7	2.0	111	5800
HHE-560B-2	1250	84.9	2985	95.5	0.89	7.0	0.7	2.0	119	5860
HHE-560C-2	1400	94.9	2985	95.7	0.89	7.0	0.7	2.0	127	5930

TECHNICAL DATA (ASSURING VALUE, 10000V / 50Hz) -- 4 POLES

Motor Type	Rated Power kW	Current (10000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Flywheel inertia J kg·m ²	Weight kg
HHE-450A-4	220	16.3	1488	92.7	0.84	6.5	0.8	2.0	21.0	2810
HHE-450B-4	250	18.5	1488	92.9	0.84	6.5	0.8	2.0	34.0	3000
HHE-450C-4	280	20.7	1488	93.0	0.84	6.5	0.8	2.0	38.0	3160
HHE-450D-4	315	22.9	1488	93.3	0.85	6.5	0.8	2.0	43.0	3350
HHE-450E-4	355	25.8	1488	93.4	0.85	6.5	0.8	2.0	52.0	3500
HHE-450F-4	400	29.0	1488	93.6	0.85	6.5	0.8	2.0	58.0	3700
HHE-450G-4	450	32.6	1488	93.8	0.85	6.5	0.8	2.0	65.0	3950
HHE-450H-4	500	35.7	1488	94.0	0.86	6.5	0.8	2.0	73.0	4200
HHE-450I-4	560	40.0	1488	94.1	0.86	6.5	0.8	2.0	85.0	4400
HHE-450J-4	630	44.9	1488	94.3	0.86	6.5	0.8	2.0	94.0	4610
HHE-500A-4	710	50.4	1488	94.5	0.86	6.5	0.8	2.0	141	5360
HHE-500B-4	800	56.0	1488	94.8	0.87	6.5	0.8	2.0	148	5450
HHE-500C-4	900	62.9	1488	95.0	0.87	6.5	0.8	2.0	156	5530
HHE-500D-4	1000	69.8	1488	95.1	0.87	6.5	0.8	2.0	230	5620
HHE-560A-4	1120	77.2	1488	95.2	0.88	6.5	0.8	2.0	252	5900
HHE-560B-4	1250	86.0	1488	95.4	0.88	6.5	0.8	2.0	272	5950
HHE-560C-4	1400	96.1	1488	95.6	0.88	6.5	0.8	2.0	305	6020

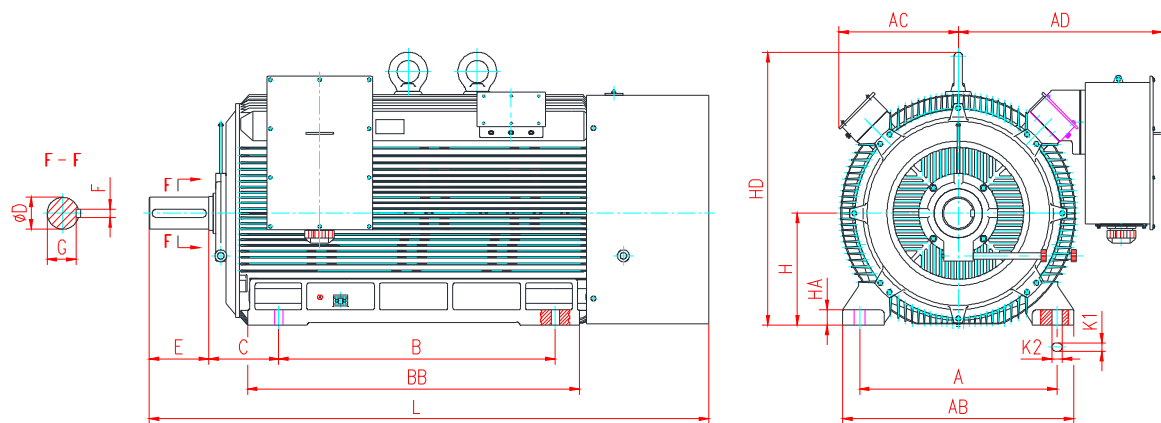
TECHNICAL DATA (ASSURING VALUE, 10000V / 50Hz) -- 6 POLES

Motor Type	Rated Power kW	Current (10000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Flywheel inertia J kg·m ²	Weight kg
HHE-450A-6	220	16.7	987	92.5	0.82	6.0	0.8	2.0	56.0	3400
HHE-450B-6	250	19.0	987	92.7	0.82	6.0	0.8	2.0	64.0	3600
HHE-450C-6	280	21.2	987	92.9	0.82	6.0	0.8	2.0	73.0	3800
HHE-450D-6	315	23.8	987	93.1	0.82	6.0	0.8	2.0	81.0	4000
HHE-450E-6	355	26.8	987	93.3	0.82	6.0	0.8	2.0	90.0	4200
HHE-500A-6	400	30.1	987	93.5	0.82	6.0	0.8	2.0	170	5250
HHE-500B-6	450	33.4	987	93.7	0.83	6.0	0.8	2.0	177	5370
HHE-500C-6	500	37.0	987	93.9	0.83	6.0	0.8	2.0	184	5500
HHE-500D-6	560	41.4	987	94.1	0.83	6.0	0.8	2.0	191	5630
HHE-500E-6	630	46.5	987	94.3	0.83	6.0	0.8	2.0	202	5830
HHE-560A-6	710	52.3	987	94.5	0.83	6.0	0.8	2.0	370	5840
HHE-560B-6	800	58.8	987	94.7	0.83	6.0	0.8	2.0	388	5930
HHE-560C-6	900	65.2	987	94.9	0.84	6.0	0.7	2.0	402	6020
HHE-560D-6	1000	72.3	987	95.1	0.84	6.0	0.7	2.0	423	6100
HHE-560E-6	1120	80.8	987	95.3	0.84	6.0	0.7	2.0	450	6150

TECHNICAL DATA (ASSURING VALUE, 10000V / 50Hz) -- 8 POLES

Motor Type	Rated Power kW	Current (10000V) A	Rated Speed r/min	Efficiency η %	Power Factor $\cos \varphi$	Locked <u>Current</u> Rated Current	Locked <u>Torque</u> Rated Torque	Maximum <u>Torque</u> Rated Torque	Flywheel inertia J kg·m ²	Weight kg
HHE-450A-8	220	18.3	742	92.4	0.75	5.5	0.8	2.0	73.0	3800
HHE-450B-8	250	20.8	742	92.6	0.75	5.5	0.8	2.0	82.0	4000
HHE-450C-8	280	22.6	742	92.8	0.77	5.5	0.8	2.0	91.0	4200
HHE-500A-8	315	25.4	742	93.0	0.77	5.5	0.8	2.0	170	5250
HHE-500B-8	355	28.6	742	93.2	0.77	5.5	0.8	2.0	177	5380
HHE-500C-8	400	31.3	742	93.4	0.79	5.5	0.8	2.0	184	5510
HHE-500D-8	450	35.2	742	93.5	0.79	5.5	0.8	2.0	191	5640
HHE-560A-8	500	39.0	742	93.7	0.79	5.5	0.8	2.0	450	6100
HHE-560B-8	560	43.7	742	93.7	0.79	5.5	0.8	2.0	480	6200
HHE-560C-8	630	48.3	742	94.1	0.80	5.5	0.7	2.0	510	6240
HHE-560D-8	710	54.3	742	94.3	0.80	5.5	0.7	2.0	535	6320
HHE-560E-8	800	61.1	742	94.5	0.80	5.5	0.7	2.0	560	6400

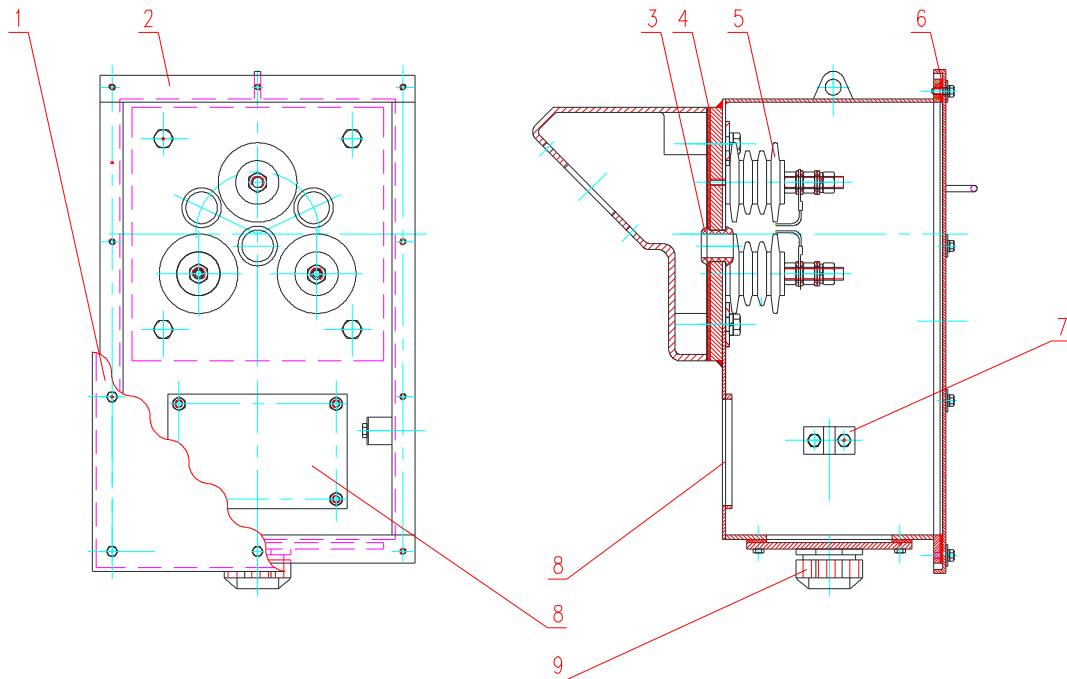
B3 MOUNTING DIMENSIONS AND OUTLINE DIMENSIONS (10000V / 50HZ)



Frame Size	Poles	Mounting Dimensions (mm)									
		A	B	C	D	E	F	G	H	K1	K2
450	2P	800 ^{+1.75} _{-1.75}	1120 ^{+1.75} _{-1.75}	280 ^{+4.0} _{-4.0}	95 ^{+0.030} _{+0.011}	170 ^{+0.50} _{-0.50}	25 ⁰ _{-0.052}	86 ⁰ _{-0.2}	450 ⁰ _{-1.0}	35 ^{+0.62} ₀	47
450	4P	800 ^{+1.75} _{-1.75}	1120 ^{+1.75} _{-1.75}	280 ^{+4.0} _{-4.0}	120 ^{+0.035} _{+0.013}	210 ^{+0.57} _{-0.57}	32 ⁰ _{-0.062}	109 ⁰ _{-0.2}	450 ⁰ _{-1.0}	35 ^{+0.62} ₀	47
450	6,8P	800 ^{+1.75} _{-1.75}	1120 ^{+1.75} _{-1.75}	280 ^{+4.0} _{-4.0}	130 ^{+0.040} _{+0.015}	250 ^{+0.57} _{-0.57}	32 ⁰ _{-0.062}	119 ⁰ _{-0.2}	450 ⁰ _{-1.0}	35 ^{+0.62} ₀	47
500	2P	900 ^{+2.10} _{-2.10}	1250 ^{+2.10} _{-2.10}	450 ^{+4.0} _{-4.0}	110 ^{+0.035} _{+0.013}	210 ^{+0.57} _{-0.57}	28 ⁰ _{-0.052}	100 ⁰ _{-0.2}	500 ⁰ _{-1.0}	42 ^{+0.62} ₀	60
500	4P	900 ^{+2.10} _{-2.10}	1250 ^{+2.10} _{-2.10}	315 ^{+4.0} _{-4.0}	130 ^{+0.040} _{+0.015}	250 ^{+0.57} _{-0.57}	32 ⁰ _{-0.062}	119 ⁰ _{-0.3}	500 ⁰ _{-1.0}	42 ^{+0.62} ₀	60
500	6,8P	900 ^{+2.10} _{-2.10}	1250 ^{+2.10} _{-2.10}	315 ^{+4.0} _{-4.0}	140 ^{+0.040} _{+0.015}	250 ^{+0.57} _{-0.57}	36 ⁰ _{-0.062}	128 ⁰ _{-0.3}	500 ⁰ _{-1.0}	42 ^{+0.62} ₀	60
560	2P	1000 ^{+2.10} _{-2.10}	1400 ^{+2.10} _{-2.10}	530 ^{+4.0} _{-4.0}	130 ^{+0.040} _{+0.015}	250 ^{+0.57} _{-0.57}	32 ⁰ _{-0.062}	119 ⁰ _{-0.3}	560 ⁰ _{-1.0}	42 ^{+0.62} ₀	60
560	4P	1000 ^{+2.10} _{-2.10}	1400 ^{+2.10} _{-2.10}	355 ^{+4.0} _{-4.0}	150 ^{+0.040} _{+0.015}	250 ^{+0.57} _{-0.57}	36 ⁰ _{-0.062}	138 ⁰ _{-0.3}	560 ⁰ _{-1.0}	42 ^{+0.62} ₀	60
560	6,8P	1000 ^{+2.10} _{-2.10}	1400 ^{+2.10} _{-2.10}	355 ^{+4.0} _{-4.0}	160 ^{+0.040} _{+0.015}	300 ^{+0.65} _{-0.65}	40 ⁰ _{-0.062}	147 ⁰ _{-0.3}	560 ⁰ _{-1.0}	42 ^{+0.62} ₀	60

Frame Size	Poles	Mounting Dimensions (mm)						
		AC	AD	AB	BB	HA	HD	L
450	2P	460	930	950	1400	56	1150	2310
450	4P	460	930	950	1400	56	1150	2350
450	6,8P	460	930	950	1400	56	1150	2390
500	2P	515	970	1080	1490	65	1200	2610
500	4P	515	970	1080	1490	65	1200	2380
500	6,8P	515	970	1080	1490	65	1200	2380
560	2P	600	1030	1180	1680	76	1480	2900
560	4P	600	1030	1180	1680	76	1480	2550
560	6,8P	600	1030	1180	1680	76	1480	2600

POWER TERMINAL BOX STRUCTURE WITH BURSTING DIAPHRAGM (6000V & 10000V)

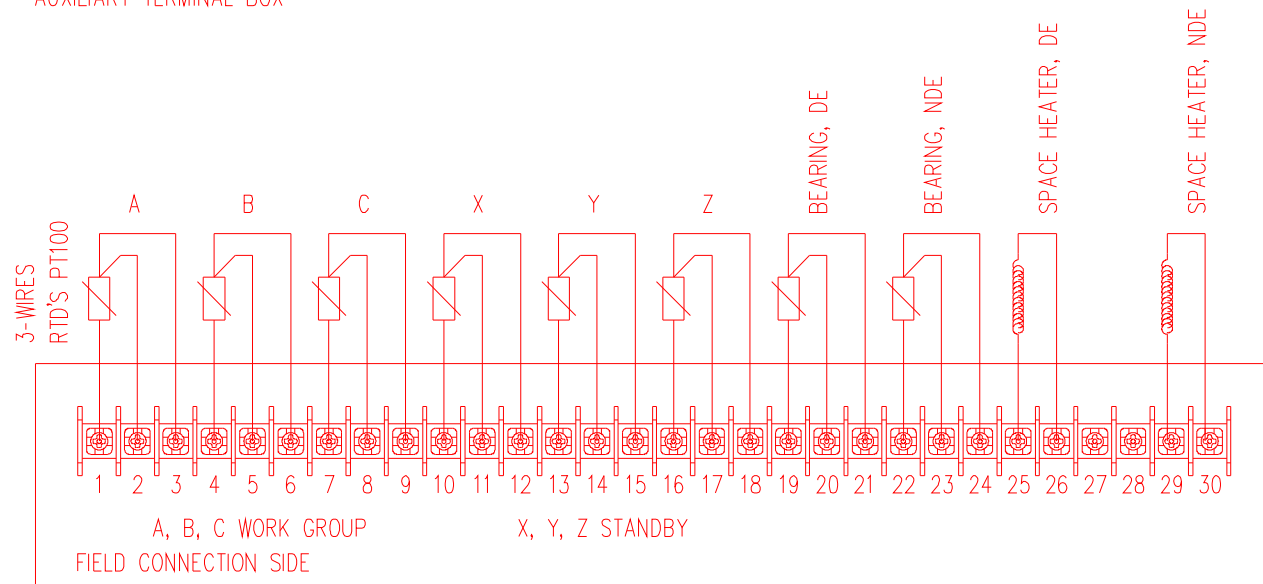


- 1 TERMINAL BOX LID
- 2 TERMINAL BOX BASE
- 3 SHEATH FOR LEAD PROTECTION
- 4 GASKET FOR SEAL
- 5 PILLAR INSULATOR
- 6 GASKET FOR SEAL
- 7 EARTHING DEVICE (LEFT SIDE OR RIGHT SIDE ON REQUEST)
- 8 BURSTING DIAPHRAGM (PRESSURE RELIEF COPPER SHEET 0.5mm)
- 9 CABLE GLAND



CONNECTION DIAGRAM FOR MAIN T.BOX AND AUXILIARY T.BOX

AUXILIARY TERMINAL BOX

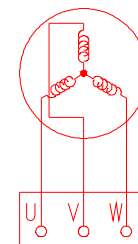


NOTE:

THE TERMINALS ARE LOCATED IN THE AUXILIARY TERMINAL BOXES, PLEASE CONNECT THE WIRES ACCORDING TO THE CORRESPONDING NUMERAL MARKINGS.

MAIN TERMINAL BOX CONNECTION OF TERMINALS

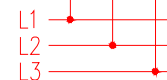
⋈ - CONNECTION



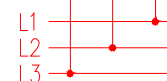
3 PHASE 6000V & 10000V 50HZ



DIRECTION OF ROTATION WITH
NORMAL PHASE SEQUENCE



DIRECTION OF ROTATION WITH
REVERSED PHASE SEQUENCE



Bearing

HHE series (6000V)			HHE series (10000V)		
Frame	Bearing(DE)	Bearing(NDE)	Frame	Bearing(DE)	Bearing(NDE)
HHE-315-2P	6319/C3	6319/C3	HHY-315-2P	6319/C3	6319/C3
HHE-315-4,6,8P	6322/C3	6322/C3	HHY-315-4,6,8P	6322/C3	6322/C3
HHE-355-2P	6319/C3	6319/C3	HHY-355-2P	6319/C3	6319/C3
HHE-355-4,6,8P	6322/C3	6322/C3	HHY-355-4,6,8P	6322/C3	6322/C3
HHE-400-2P	6220/C3	6220/C3	HHY-400-2P	6220/C3	6220/C3
HHE-400-4,6,8P	6326/C3	6326/C3	HHY-400-4,6,8P	6326/C3	6326/C3
HHE-450-2P	6220/C3	6220/C3	HHY-450-2P	6220/C3	6220/C3
HHE-450-4,6,8P	6328/C3	6328/C3	HHY-450-4,6,8P	6328/C3	6328/C3
HHE-500-2P	SLIDE BEARING	SLIDE BEARING	HHY-500-2P	SLIDE BEARING	SLIDE BEARING
HHE-500-4,6,8P	6330/C3	6330/C3	HHY-500-4,6,8P	6330/C3	6330/C3
HHE-560-2P	SLIDE BEARING	SLIDE BEARING	HHY-560-2P	SLIDE BEARING	SLIDE BEARING
HHE-560-4,6,8P	6334/C3	6334/C3	HHY-560-4,6,8P	6334/C3	6334/C3

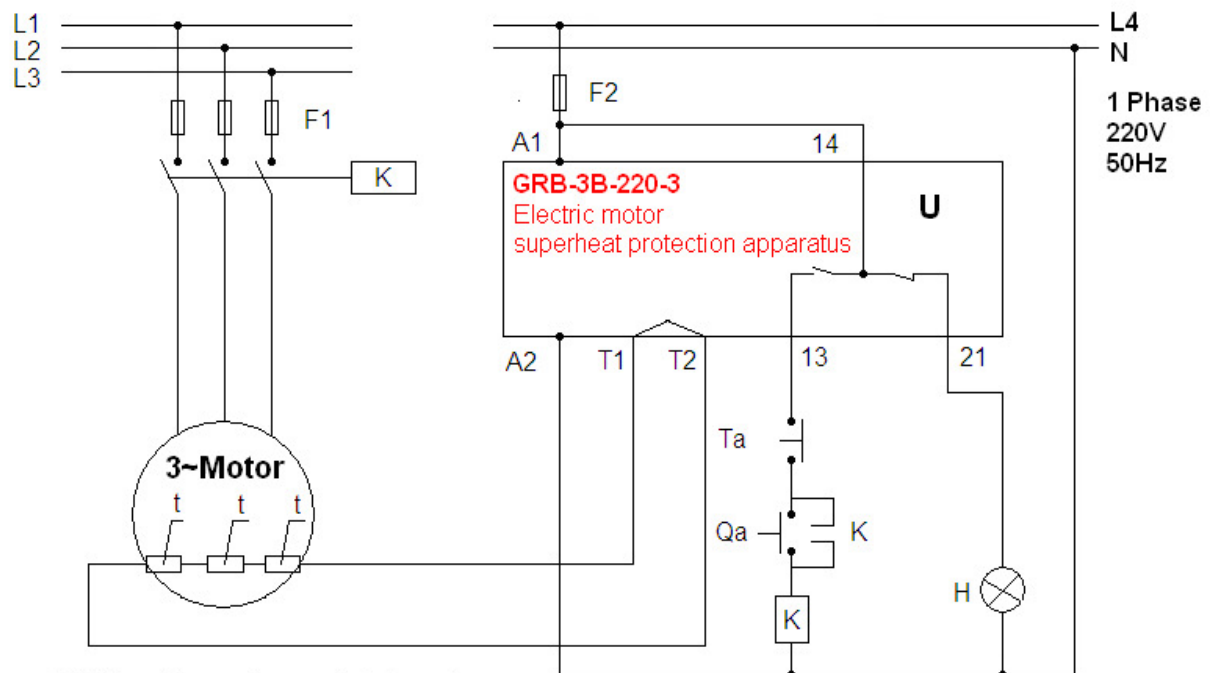
Noise

HHE series 6000V dB(A)				
Sound pressure level				
Rated output (KW)	Synchronous speed r/min			
	3000	1500	1000	750
> 110~315	110	106	102	99
> 315~710	111	108	105	102
> 710~1120	112	111	108	105
> 1120~2800	113	113	110	107

HHE series 10000V dB(A)				
Sound pressure level				
Rated output (KW)	Synchronous speed r/min			
	3000	1500	1000	750
> 110~315	111	109	105	102
> 315~630	112	110	108	105
> 630~900	113	111	109	106
> 900	113	113	110	107

TYPICAL PROTECTIVE CIRCUIT OF ELECTRIC MOTOR

Protective circuit for the use of 3 x PTC150°C Thermistors - as example for reference

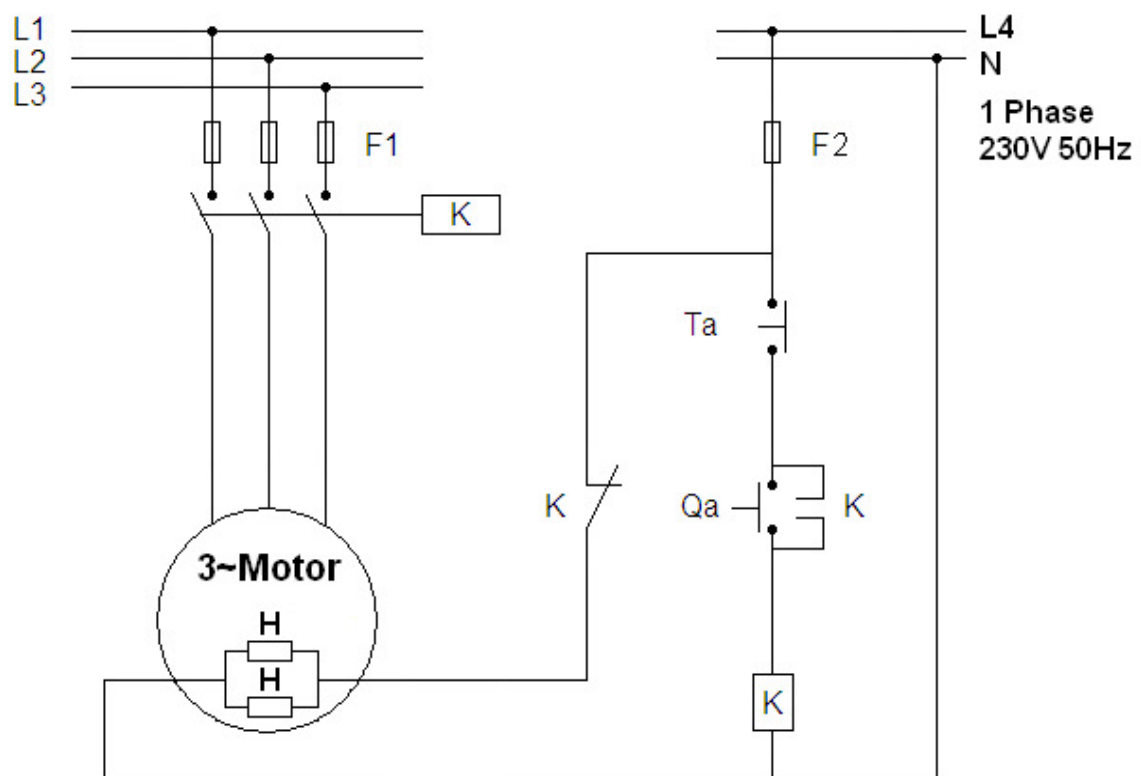


- 3~Motor: Three phase electric motor
- t : 3 x PTC 150°C thermistors
- K : Electromagnetic switch
- U : GRB-3B-220-3 electric motor superheat protection apparatus
- H : Trouble indicating lamp
- Ta: Switch off button
- Qa: Switch on button
- F1: Fuse
- F2: Fuse



TYPICAL PROTECTIVE CIRCUIT OF ELECTRIC MOTOR

Protective circuit for the use of anti-condensation space heater - as example for reference



3~Motor: Three phase electric motor

H : **Space heater**

K : Electromagnetic switch

Ta : Switch off button (Stop)

Qa: Switch on button (Start)

F1: Fuse

F2: Fuse



TYPICAL PROTECTIVE CIRCUIT OF ELECTRIC MOTOR

Protective circuit for the use of PT100 Platinum Resistance Sensor on three phase windings and bearings - as example for reference

