

高壓全密氣對氣立式鼠籠型泵浦用馬達

MODEL : A EVE

STANDARD 3-PHASE INDUCTION MOTORS
HIGH VOLTAGE (4201~7000V) SQUIRREL CAGE
FRAME NO. (ERV) 450M ~ 1000A



DWG NO.

3A057H556E

REV. 01

ISSUED MAY. 29 2007		SPECIFICATION TABLE STANDARD 3-PHASE INDUCTION MOTORS HIGH VOLTAGE SQUIRREL CAGE	MODEL A EVE
REVISED JUN. 18 2014			
ITEM		STANDARD SPECIFICATION	
R A T I N G	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM)	
	DESIGN STANDARD	IEC, NEMA	
	VOLTAGE	4201 ~ 7000 V	
	FREQUENCY	50HZ, 60Hz	
	FRAME NO. (ERV)	450M ~ 1000A	
	OUTPUT RANGE	200 ~ 5500HP (150 ~ 4101kW) 50HZ 250 ~ 5500HP (185 ~ 4101kW) 60HZ	
	R.P.M. (SYN.)	1500 ~ 500R.P.M. (4 ~ 12 POLE) 50HZ 1800 ~ 600R.P.M. (4 ~ 12 POLE) 60HZ	
	TIME DUTY	INVERTER DUTY: CONSTANT TORQUE (CT=3:1); VARIABLE TORQUE (VT=4:1); CONSTANT HORSEPOWER (CHP=1:1.1), OR 1.15 (SINUSOIDAL)	
	PROTECTION ENCLOSURE	TOTALLY ENCLOSED (IP 54)	
	COOLING METHOD	EXTERNAL AND INTERNAL FANS, WITH AIR TO AIR HEAT EXCHANGER WHICH IS AN INDEPENDENT UNIT MOUNTED DIRECTLY ON THE MOTOR (IC 611)	
MOUNTING	FLANGE MOUNTING (IM 3011)		
A P P L I C A T I O N	POWER CONDITIONS	VOLTAGE $\pm 10\%$, FREQUENCY $\pm 5\%$ AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY WITH FREQUENCY NOT TO EXCEED 5%	
	ENVIRONMENT CONDITIONS	PLACE : SHADOW, NON-HAZARDOUS CSA CLASS I, DIV. 2, GROUP, B, C, D, T3 (OPTION) AMBIENT TEMPERATURE : -20 ~ 40°C (STANDARD); -20 ~ +50 (AVAILABLE WHEN REQUEST, FRAME SIZE MAY BY CHANGED) RELATIVE HUMIDITY : LESS THAN 95%RH (NON-CONDENSATION) ALTITUDE : LESS THAN 1,000 METERS	
	OPERATING CONDITIONS	DIRECT COUPLING, SUITABLE FOR FLUID DUTY ONLY	
	DIRECTION OF ROTATION	BI-DIRECTIONAL (4~12P)	
	METHOD OF STARTING	FULL VOLTAGE DIRECT ON LINE	
P E R F O R M A N C E	TEST PROCEDURE	IEC 60034, IEEE 112	
	TYPICAL PERFORMANCE	AS DWG NO. 3A057H559E, 3A057H973E	
	TEMPERATURE RISE	S.F. 1.0 80°C BY RESISTANCE METHOD AT SINEWAVE POWER S.F. 1.15 105°C BY RESISTANCE METHOD AT SINEWAVE POWER S.F. 1.0 105°C BY RESISTANCE METHOD AT INVERTER DUTY	
	OVER SPEED	TWO MIN., 125% MAX. RATED SPEED BELOW 1800RPM	
	OVER TORQUE	160% RATED TORQUE FOR 15 SEC.	

PERFORMANCE DATA										MODEL	
										AEVE	
3-PHASE SQUIRREL CAGE INDUCTION MOTORS										6000V 50HZ	
HIGH VOLTAGE SQUIRREL CAGE											

TEAAC , BS , DESIGN-B , CLASS F INS , CLASS B TEMP , 40°C AMBIENT , S.F.1.0
4201~7000V (6000V,6600V) 3-PHASE 50HZ

TYPICAL PERFORMANCE (6000 V)

OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD						LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS	
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT				CURRENT A
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
200	150	490	450A-110R	2143	93.0	91.7	90.2	71.0	65.0	53.0	21.7	85	112	200	156	4100
		590	450A-110R	2225	93.4	92.5	91.4	74.0	69.0	58.0	26.0	85	140	210	130	3600
250	185	490	450C-110R	2679	93.2	92.0	90.5	71.5	65.5	54.0	26.9	85	138	205	184	4500
		740	450M-110R	2128	93.8	93.2	92.4	79.0	74.5	65.0	29.1	85	167	215	108	3400
300	225	590	450A-110R	2669	93.6	92.9	92.0	74.0	69.0	58.0	31.1	85	166	210	136	3800
		490	450C-110R	3214	93.4	92.4	91.2	71.5	65.5	54.0	32.2	90	165	205	220	4600
		740	450M-110R	2483	94.0	93.2	92.4	79.0	74.5	65.0	33.8	85	195	210	114	3500
350	260	590	450A-110R	3114	93.8	92.9	92.0	74.0	69.0	58.0	36.2	85	194	210	149	4200
		490	500A-125R	3750	93.6	92.6	93.4	71.5	65.5	54.0	37.5	90	192	205	270	5100
		985	450M-110R	2132	94.0	93.7	93.0	83.0	80.0	73.0	36.8	85	219	215	75	3400
400	300	740	450A-110R	2838	94.0	93.4	92.6	79.5	75.5	67.0	38.4	90	221	210	140	3700
		590	450C-110R	3559	94.0	93.2	92.4	74.0	69.0	58.0	41.3	85	220	215	170	4500
		490	500A-125R	4286	93.8	93.2	92.4	73.0	67.0	55.0	41.9	90	218	200	275	5300
		985	450M-110R	2398	94.2	93.8	93.2	83.0	80.0	73.0	41.3	85	247	215	77	3500
450	335	740	450A-110R	3193	94.2	93.7	93.0	79.5	75.5	67.0	43.1	90	249	220	149	3800
		590	450C-110R	4004	94.1	93.4	92.6	75.0	70.0	60.0	45.8	90	248	210	180	4600
		490	500C-125R	4821	94.1	93.4	92.6	73.0	67.0	55.0	47.0	85	247	220	345	6000
		1480	450M-110R	1774	94.5	94.2	93.7	85.0	83.0	79.0	44.7	85	272	220	62	3850
500	375	985	450A-110R	2665	94.4	94.2	93.8	83.0	80.0	73.0	45.8	90	277	215	140	4000
		740	500M-110R	3547	94.4	94.2	93.8	80.0	76.0	68.0	47.5	85	277	220	180	4500
		590	500A-125R	4449	94.2	94.0	93.5	75.0	70.0	60.0	50.8	85	274	210	236	5200
		490	500C-125R	5357	94.2	94.0	93.5	74.0	67.5	55.5	51.5	85	273	200	350	6200
		1480	450M-110R	2128	94.8	94.6	94.2	85.0	83.0	79.0	53.5	85	332	220	63	3950
600	450	985	450A-110R	3198	94.6	94.4	94.0	83.0	80.0	73.0	54.9	85	335	220	142	4200
		740	500A-125R	4257	94.4	94.2	93.8	80.0	76.0	68.0	57.0	85	341	215	210	5000
		590	500C-125R	5339	94.4	94.2	93.8	76.0	70.5	60.0	60.0	95	332	210	310	5800
		490	560A-140R	6429	94.4	94.2	93.8	75.0	68.5	57.0	60.8	90	326	200	440	6800
		1480	450M-110R	2483	94.8	94.6	94.2	85.0	83.0	79.0	62.4	85	397	220	72	4000
700	520	985	500M-110R	3731	94.6	94.4	94.0	83.0	80.0	73.0	64.0	85	384	220	168	5650
		740	500A-125R	4966	94.4	94.2	93.8	80.5	76.5	68.5	66.1	90	387	210	225	5400
		590	500C-125R	6229	94.4	94.2	93.7	76.5	71.0	61.0	69.6	85	387	205	340	6300
		490	560C-140R	7500	94.4	94.2	93.7	75.0	68.5	57.0	71.0	90	385	210	540	7800

OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD							LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT	CURRENT A			
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
800	600	1480	450A-110R	2838	95.0	94.8	94.4	85.5	83.5	79.5	70.7	80	446	220	78	4200
		985	500M-110R	4264	94.8	94.6	94.2	83.0	80.0	73.0	73.0	90	437	220	175	5800
		740	560M-125R	5676	94.6	94.4	94.1	81.0	77.0	69.0	74.9	90	446	210	270	6500
		590	560A-140R	7119	94.5	94.3	94.0	77.0	71.0	61.0	78.9	90	443	210	475	7500
		490	630A-160R	8571	94.5	94.3	94.0	75.0	68.5	57.0	81.0	85	443	210	666	9400
900	670	1480	500M-110R	3193	95.0	94.8	94.4	85.5	83.5	79.5	79.5	80	494	220	90	5500
		985	500A-125R	4797	95.0	94.8	94.4	83.5	80.5	74.0	81.4	90	502	225	194	6000
		740	560M-125R	6385	94.9	94.6	94.1	81.0	77.0	69.0	84.0	85	498	215	285	6700
		590	560C-140R	8008	94.8	94.5	94.0	77.0	72.0	61.5	88.5	90	507	210	525	8000
		490	630C-160R	9643	94.8	94.5	94.0	76.0	71.0	60.0	89.7	90	494	220	760	10500
1000	750	1480	500M-110R	3547	95.2	94.9	94.5	85.5	83.5	79.5	88.2	85	558	225	94	5700
		985	560M-125R	5330	95.1	94.9	94.4	83.5	80.5	74.0	90.4	90	568	220	205	6200
		740	560A-140R	7095	95.0	94.8	94.4	81.5	77.5	69.5	92.7	90	558	215	378	7200
		590	630A-160R	8898	95.0	94.8	94.4	77.0	72.0	61.5	98.1	85	553	215	825	9500
		490	630C-160R	10714	94.9	94.7	94.2	76.0	71.0	60.0	100	85	549	215	780	10800
1250	930	1480	500A-125R	4434	95.4	95.2	94.8	86.0	84.0	80.0	109	85	700	225	135	6000
		985	560A-140R	6662	95.2	95.0	94.6	83.5	80.5	74.0	113	90	686	220	300	7000
		740	630M-140R	8868	95.2	95.0	94.6	82.0	78.0	70.0	115	90	692	210	428	8000
		590	630C-160R	11123	95.1	94.6	94.2	78.0	73.0	63.0	121	85	695	220	970	10500
		490	710A-160R	13393	95.0	94.5	94.0	76.0	71.0	60.0	124	90	698	220	1085	12500
1500	1120	1480	560M-125R	5321	95.4	95.2	94.8	86.0	84.0	80.0	131	85	837	225	151	7000
		985	560A-140R	7995	95.4	95.2	94.8	83.5	80.5	74.0	135	85	844	220	320	7400
		740	630A-160R	10642	95.4	95.2	94.8	82.5	78.5	71.0	137	90	830	220	745	9400
		590	710A-160R	13347	95.2	95.0	94.6	78.0	73.0	63.0	145	85	837	215	1260	12800
		490	800M-160R	16071	95.2	95.0	94.6	77.0	72.0	61.5	147	85	823	210	1360	14500
1750	1320	1480	560A-140R	6208	95.4	95.2	94.8	86.0	84.0	80.0	153	80	1002	220	240	7400
		985	630M-140R	9327	95.4	95.2	94.8	84.0	81.0	75.0	157	85	985	210	360	8000
		740	630A-160R	12416	95.4	95.2	94.9	82.5	78.5	71.0	160	95	1002	220	749	9500
		590	800M-160R	15572	95.4	95.2	94.9	79.0	75.0	66.0	167	85	1002	220	1428	13500
		490	800A-180R	18750	95.4	95.2	94.9	77.0	72.0	61.5	171	90	1002	215	2150	17500
2000	1500	1480	560A-140R	7095	95.6	95.4	95.0	86.0	84.0	80.0	175	80	1116	220	249	7700
		985	630A-160R	10660	95.6	95.4	94.9	84.0	81.0	75.0	179	88	1107	210	620	9600
		740	710M-160R	14189	95.6	95.4	94.9	83.0	79.0	71.5	181	85	1107	215	925	11500
		590	800A-180R	17797	95.5	95.3	94.9	79.0	75.0	66.0	190	85	1112	210	2150	17500
		490	800A-180R	21429	95.5	95.3	94.9	78.0	73.0	62.5	193	85	1116	215	2220	18600
2500	1850	1480	630M-140R	8868	96.0	95.8	95.4	86.0	84.0	80.0	217	80	1431	220	316	9000
		985	710M-160R	13325	95.8	95.7	95.4	85.0	82.0	76.0	220	90	1407	225	728	10500
		740	710A-160R	17736	95.8	95.7	95.4	83.5	79.5	71.5	224	85	1407	215	1120	12500
		590	800A-180R	22246	95.8	95.7	95.4	80.0	76.0	67.0	234	90	1395	220	2280	18500
		490	900M-200R	26786	95.7	95.6	95.2	78.0	73.0	62.5	240	90	1407	225	2450	19500

OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD							LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT	CURRENT A			
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
3000	2240	1480	630A-160R	10642	96.2	96.0	95.6	86.5	84.5	81.0	259	80	1703	220	385	10000
		985	710A-160R	15990	96.1	95.9	95.6	85.5	82.5	76.5	262	85	1675	220	924	12500
		740	800M-160R	21284	96.1	95.9	95.6	84.0	80.0	72.0	267	85	1688	215	1320	15700
		590	900M-200R	26695	96.1	95.9	95.6	80.0	76.0	67.0	280	85	1685	215	2420	21500
		490	900A-220R	32143	96.1	95.9	95.6	79.0	74.0	64.0	284	90	1700	225	3880	23500
3500	2650	985	800M-160R	18655	96.1	95.9	95.6	85.5	82.5	76.5	306	90	1970	225	949	15500
		740	800A-180R	24831	96.1	95.9	95.6	84.0	80.0	72.0	311	85	1937	215	1990	17800
		590	900A-220R	31144	96.1	95.9	95.6	80.0	76.0	67.0	327	90	1949	220	3850	23500
		490	900A-220R	37500	96.1	95.9	95.6	79.0	74.0	64.0	331	90	1700	225	4140	25600
4000	3000	985	800A-180R	21320	96.2	96.0	95.7	86.0	83.0	77.0	347	85	2290	225	1800	18400
		740	900M-200R	28378	96.2	96.0	95.7	85.0	81.0	73.0	351	90	2213	220	2200	22800
		590	900A-220R	35593	96.1	95.9	95.6	80.0	76.0	67.0	373	90	1949	220	4150	24800
		490	1000M-220F	42857	96.1	95.9	95.6	79.0	74.0	64.0	378	90	1700	225	4360	30000
4500	3350	985	800A-180R	23985	96.2	96.1	95.8	85.0	82.0	76.0	395	85	2499	225	1735	19900
		740	900M-200R	31926	96.2	96.1	95.8	83.5	79.5	72.0	402	90	2485	220	2310	24700
		590	1000M-220F	35594	96.2	96.1	95.8	80.0	75.5	67.0	420	90	2472	210	4320	27500
		490	1000A-240R	48214	96.2	96.1	95.8	78.0	73.0	62.5	430	90	2460	215	5085	30800
5000	3750	740	900A-220R	35473	96.2	96.1	95.8	83.5	79.5	72.0	447	90	2764	220	3345	25800
		590	1000M-220F	35594	96.2	96.1	95.8	80.0	75.5	67.0	466	90	2749	210	4420	28500
		490	1000A-240R	53571	96.2	96.1	95.8	78.0	73.0	62.5	478	90	2720	215	5220	32000
5500	4101	740	900A-220R	39020	96.2	96.1	95.8	84.0	80.0	72.5	489	90	3020	220	3360	26000
		590	1000A-240R	35594	96.2	96.1	95.8	80.5	76.0	67.0	510	90	3000	210	5180	31500
		490	1000A-240R	58929	96.2	96.1	95.8	78.5	73.5	63.0	523	90	2980	215	5280	32800

PERFORMANCE DATA										MODEL	
										A EVE	
3-PHASE SQUIRREL CAGE INDUCTION MOTORS HIGH VOLTAGE SQUIRREL CAGE										6000V 60HZ	

TEAAC , BS , DESIGN-B , CLASS F INS , CLASS B TEMP , 40°C AMBIENT , S.F.1.0
4201~7000V (6000V,6600V) 3-PHASE 60HZ

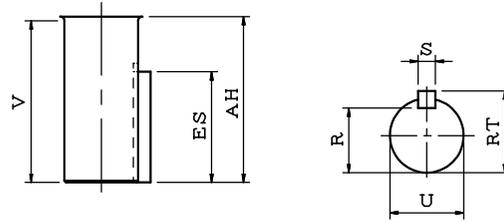
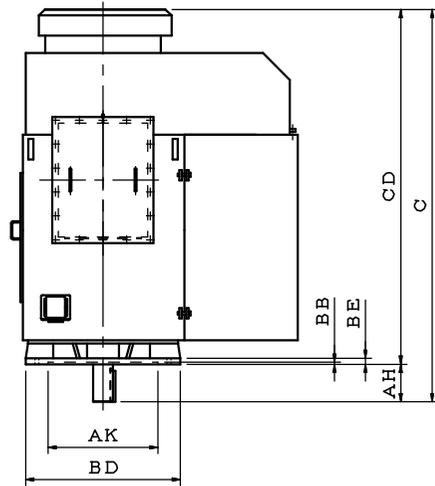
TYPICAL PERFORMANCE (6000 V)

OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD						LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS	
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT				CURRENT A
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
250	185	590	450A-110R	2225	93.1	91.7	90.2	71.0	65.0	53.0	27.1	85	140	200	155	4100
		710	450A-110R	2218	93.6	92.5	91.4	74.0	69.0	58.0	31.1	85	167	210	132	3600
300	225	590	450C-110R	2669	93.4	92.0	90.5	71.5	65.5	54.0	32.2	85	166	205	185	4600
		885	450M-110R	2076	94.0	93.2	92.4	79.0	74.5	65.0	33.8	85	195	215	110	3200
350	260	710	450A-110R	2588	93.8	92.9	92.0	74.0	69.0	58.0	36.2	85	194	210	140	4000
		590	450C-110R	3114	93.6	92.4	91.2	71.5	65.5	54.0	37.5	90	193	205	224	4700
400	300	885	450M-110R	2373	94.0	93.2	92.4	79.0	74.5	65.0	38.7	85	223	210	116	3400
		710	450A-110R	2958	94.0	92.9	92.0	74.0	69.0	58.0	41.3	85	221	210	149	4200
400	300	590	500A-125R	3559	93.8	92.6	93.4	71.5	65.5	54.0	42.8	90	219	205	272	5100
		450	335	1180	450M-110R	2002	94.2	93.8	93.4	83.0	80.0	73.0	41.3	85	251	215
885	450A-110R			2669	94.2	93.4	92.6	79.5	75.5	67.0	43.1	90	249	210	136	3600
710	450C-110R			3327	94.1	93.2	92.4	74.0	69.0	58.0	46.4	85	248	205	172	4600
590	500A-125R			4004	94.1	93.2	92.4	73.0	67.0	55.0	47.0	90	247	200	280	5300
500	375	1180	450M-110R	2225	94.4	94.2	93.8	83.0	80.0	73.0	45.8	85	279	220	77	3600
		885	450A-110R	2966	94.2	93.7	93.0	80.0	76.0	68.0	47.6	90	277	215	149	3800
		710	450C-110R	3697	94.2	93.7	93.0	75.0	70.0	60.0	50.8	90	277	210	184	4700
		590	500C-125R	4449	94.2	93.7	93.0	74.0	67.5	55.5	51.5	85	274	200	354	6100
600	450	1780	450M-110R	1770	94.8	94.6	94.2	85.0	83.0	79.0	53.5	85	335	215	58	3750
		1180	450A-110R	2669	94.7	94.5	94.1	83.0	80.0	73.0	54.8	90	332	215	140	4000
		885	500M-110R	3559	94.6	94.4	94.0	80.0	76.0	68.0	56.9	85	338	220	180	5000
		710	500A-125R	4437	94.4	94.2	93.7	76.0	70.0	60.0	60.0	85	332	210	240	5300
		590	500C-125R	5339	94.4	94.2	93.7	74.0	67.5	55.5	61.7	85	330	200	366	6300
700	520	1780	450M-110R	2065	94.8	94.6	94.2	85.0	83.0	79.0	62.4	85	394	220	63	4000
		1180	450A-110R	3114	94.8	94.6	94.2	83.0	80.0	73.0	63.9	90	387	220	145	4300
		885	500A-125R	4153	94.6	94.4	94.0	80.5	76.5	68.5	66.0	85	384	215	228	5400
		710	500C-125R	5176	94.4	94.2	93.7	76.5	71.0	61.0	69.6	95	388	210	312	5900
		590	560A-140R	6229	94.4	94.2	93.7	75.0	68.5	57.0	71.0	90	384	205	494	6900
800	600	1780	450A-110R	2360	95.0	94.8	94.4	85.5	83.5	79.5	70.7	85	450	220	72	4200
		1180	500M-110R	3559	94.8	94.6	94.2	83.0	80.0	73.0	73.0	85	443	220	172	5500
		885	500A-125R	4746	94.6	94.4	94.0	80.5	76.5	68.5	75.4	90	446	210	249	5900
		710	500C-125R	5915	94.6	94.4	94.0	76.5	71.0	61.0	79.4	85	443	205	344	6300
		590	560C-140R	7119	94.6	94.4	94.0	75.0	68.5	57.0	80.9	90	440	210	549	7900

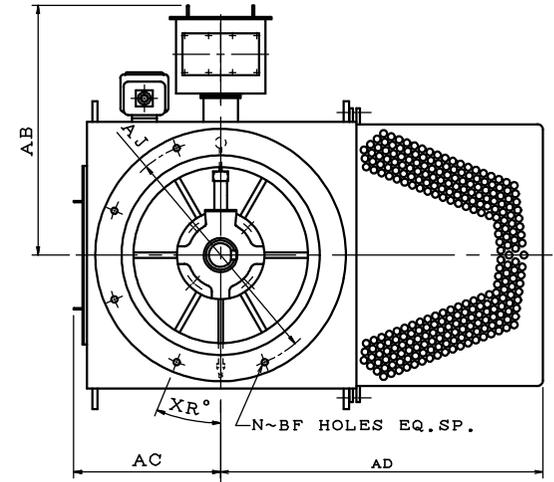
OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD							LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT	CURRENT A			
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
900	670	1780	450A-110R	2654	95.0	94.8	94.4	85.5	83.5	79.5	79.5	85	507	220	78	4400
		1180	500M-110R	4004	95.0	94.8	94.4	83.5	80.5	73.5	81.4	90	498	220	175	5650
		885	560M-125R	5339	94.9	94.7	94.4	81.0	77.0	69.0	84.0	95	507	210	280	6500
		710	560A-140R	6655	94.8	94.6	94.2	77.0	71.0	61.0	88.5	90	507	210	494	7700
		590	630A-160R	8008	94.8	94.6	94.2	75.0	68.5	57.0	90.9	85	498	210	670	9400
1000	750	1780	500M-110R	2949	95.1	94.9	94.4	85.5	83.5	79.5	88.3	85	558	220	90	5500
		1180	500A-125R	4449	95.1	94.9	94.4	83.5	80.5	73.5	90.4	90	553	225	194	6000
		885	560M-125R	5932	95.0	94.6	94.1	81.5	77.5	69.5	92.7	95	563	215	294	6700
		710	560C-140R	7394	95.0	94.6	94.1	77.0	72.0	61.5	98.1	90	563	210	536	8100
		590	630C-160R	8898	95.0	94.6	94.1	76.0	71.0	60.0	99.4	90	550	220	777	10400
1250	930	1780	500M-110R	3687	95.2	95.0	94.6	85.5	83.5	79.5	110	85	704	225	94	5700
		1180	560M-125R	5561	95.2	95.0	94.6	83.5	80.5	73.5	113	90	707	215	207	6700
		885	560A-140R	7415	95.1	94.9	94.4	82.0	78.0	70.0	115	90	704	220	378	7200
		710	630A-160R	9243	95.1	94.9	94.4	78.0	73.0	63.0	121	85	698	215	836	9600
		590	630C-160R	11123	95.1	94.9	94.4	76.0	71.0	60.0	124	85	688	215	794	10900
1500	1120	1780	500A-125R	4424	95.4	95.2	94.8	85.5	83.5	79.5	132	85	837	225	136	6000
		1180	560A-140R	6674	95.4	95.2	94.8	83.5	80.5	73.5	135	90	841	225	303	7000
		885	630M-140R	8898	95.4	95.2	94.8	82.0	78.0	70.0	138	90	844	215	464	9150
		710	630C-160R	11092	95.2	95.0	94.6	78.0	73.0	63.0	145	85	837	220	980	10600
		590	710A-160R	13347	95.2	95.0	94.6	76.0	71.0	60.0	149	90	830	220	1094	12700
1750	1320	1780	560M-125R	5162	95.4	95.2	94.8	86.0	84.0	80.5	153	85	990	225	154	7000
		1180	560A-140R	7786	95.4	95.2	94.8	84.0	81.0	75.0	157	90	985	220	325	7500
		885	630A-160R	10381	95.4	95.2	94.8	82.0	78.0	70.0	161	90	985	220	740	9400
		710	710A-160R	12940	95.4	95.2	94.8	79.0	75.0	66.0	167	85	973	215	1280	12900
		590	800M-160R	15572	95.4	95.2	94.8	77.0	72.0	61.5	171	85	968	210	1380	15500
2000	1500	1780	560A-140R	5899	95.6	95.4	95.0	86.0	84.0	80.5	175	85	1126	220	249	7500
		1180	630M-140R	8898	95.6	95.4	95.0	84.0	81.0	75.0	179	90	1107	210	366	8500
		885	630A-160R	11864	95.6	95.4	95.0	83.0	79.0	71.5	181	88	1126	220	749	9500
		710	800M-160R	14789	95.5	95.3	94.9	79.0	75.0	66.0	190	85	1126	210	1440	16300
		590	800A-180R	17797	95.5	95.3	94.9	77.0	72.0	61.5	195	90	1107	215	2175	17700
2500	1850	1780	560A-140R	7374	96.0	95.9	95.6	86.5	84.5	81.0	216	85	1395	220	254	7800
		1180	630A-160R	11123	95.8	95.7	95.4	85.0	82.0	76.0	220	90	1407	210	630	9700
		885	710M-160R	14831	95.8	95.7	95.4	83.0	79.0	71.5	226	90	1415	215	928	10000
		710	800A-180R	18486	95.8	95.7	95.4	79.0	75.0	66.0	237	85	1407	210	2160	17700
		590	800A-180R	22246	95.7	95.6	95.2	78.0	73.0	62.5	240	90	1383	215	2240	18800
3000	2240	1780	630M-140R	8848	96.2	96.0	95.7	86.5	84.5	81.0	259	85	1674	220	325	9000
		1180	710M-160R	13347	96.1	95.9	95.6	85.5	82.5	76.5	262	90	1689	225	736	11000
		885	710A-160R	17797	96.1	95.9	95.6	83.5	79.5	72.0	268	85	1674	215	1136	12600
		710	800A-180R	22183	96.1	95.9	95.6	80.0	76.0	67.0	280	90	1680	220	2290	18700
		590	900M-200R	26695	96.1	95.9	95.6	78.0	73.0	62.5	287	90	1660	225	2420	23000

OUTPUT		FULL LOAD RPM	FRAME NO. (ERV)	TORQUE lb-ft	FULL LOAD							LOCKED ROTOR		BREAK- DOWN TORQUE %FLT	ROTOR GD ² KG-M ²	APPROX. WEIGHT KGS
HP	(kW)				EFFICIENCY (%)			POWER FACTOR (%)			CURRENT A	TORQUE %FLT	CURRENT A			
					FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD						
3500	2600	1780	630A-160R	10323	96.2	96.0	95.7	87.0	85.0	81.5	300	85	1957	220	388	10000
		1180	710A-160R	15572	96.2	96.0	95.7	85.5	82.5	76.5	305	85	1947	220	940	12500
		885	800M-160R	20763	96.2	96.0	95.7	84.0	80.0	72.0	311	90	1970	215	1330	16500
		710	900M-200R	25880	96.2	96.0	95.7	80.0	76.0	67.0	326	85	1977	215	2400	20500
		590	900A-220R	31144	96.2	96.0	95.7	79.0	74.0	64.0	331	90	1940	225	3888	25000
4000	3000	1180	800M-160R	17797	96.2	96.0	95.7	85.5	82.5	76.5	349	90	2248	225	949	17000
		885	800A-180R	23729	96.2	96.0	95.7	84.0	80.0	72.0	355	85	2244	215	2000	18000
		710	900A-220R	29577	96.2	96.0	95.7	80.0	76.0	67.0	373	90	2240	220	3880	23500
		590	900A-220R	35593	96.2	96.0	95.7	77.5	72.5	62.0	385	90	2220	215	4150	25800
4500	3350	1180	800A-180R	20021	96.2	96.0	95.7	85.5	82.5	76.5	393	85	2499	225	1630	18400
		885	900M-200R	26695	96.2	96.0	95.7	84.0	80.0	72.0	400	90	2485	220	2240	24000
		710	900A-220R	35594	96.2	96.0	95.7	80.0	76.0	67.0	420	90	2472	210	4160	25000
		590	1000M-220R	40042	96.2	96.0	95.7	77.5	72.5	62.0	433	90	2460	215	4350	28000
5000	3750	1180	800A-180R	22246	96.2	96.0	95.7	85.5	82.5	76.5	436	85	2785	225	1725	19600
		885	900M-200R	29661	96.2	96.0	95.7	84.0	80.0	72.0	444	90	2764	220	2300	25000
		710	1000M-220R	35594	96.2	96.0	95.7	80.0	76.0	67.0	466	90	2749	210	4310	29000
		590	1000A-240R	44492	96.2	96.0	95.7	77.5	72.5	62.0	481	90	2720	215	5070	30500
5500	4101	885	900A-220R	32627	96.2	96.1	95.8	84.0	80.0	72.5	489	90	3020	220	3330	25600
		710	1000M-220R	35594	96.2	96.1	95.8	80.0	76.0	67.0	513	90	3000	210	4400	30500
		590	1000A-240R	48941	96.2	96.1	95.8	78.5	73.5	63.0	523	90	2980	215	5200	31800

VERTICAL STANDARD SOLID SHAFT, TEAAC TYPE, SQUIRREL CAGE ROTOR.



SHAFT EXTENSION DETAIL



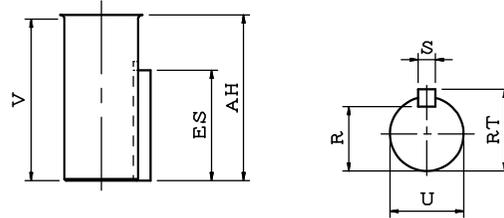
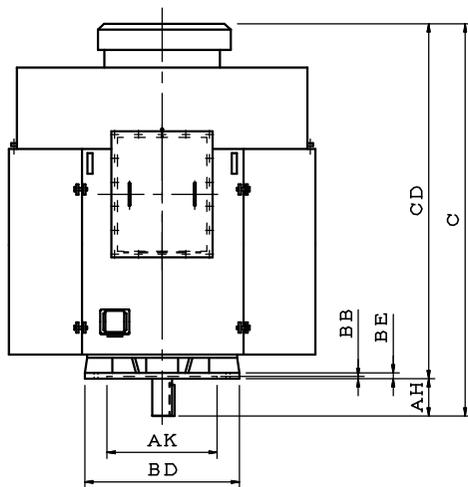
DIMENSIONS IN mm(INCH)

FRAME NO.	NO. OF POLES	MOUNTING							AB	AC	AD	CD	C	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME No.	
		AK	AJ	BD	BB	BE	N~BF	XR						U	AH	V	R	ES	S	RT	UPPER	LOWER		
450M	4P&UP	762.0 (30)	914.4 (36)	1015 (40)	10 (0.39)	40 (1.58)	8-28.5 (8-1.125)	22.5	1305 (51.4)	615 (24.2)	1385 (54.5)	1950 (76.8)	2160 (85.04)	110 (4.331)	210 (8.27)	197 (7.76)	100 (3.937)	160 (6.3)	28 (1.102)	116 (4.57)	7322B	6226C3	450M	
450A	4P&UP											2140 (84.3)	2350 (92.57)											450A
450C	10P&UP											2360 (92.9)	2570 (92.57)											450C
500M	4P&UP	863.6 (34)	1016 (40)	1115 (44)	8 (0.32)	40 (1.58)	8-28.5 (8-1.125)	22.5	1355 (53.3)	665 (26.2)	1490 (58.7)	2040 (80.3)	2250 (88.57)								7324B	6226C3	500M	
500A	4P&UP											2240 (88.2)	2450 (96.47)	125 (4.921)	210 (8.27)	197 (7.76)	114 (4.488)	160 (6.3)	32 (1.260)	132 (5.20)				500A
500C	10P&UP											2490 (98.0)	2700 (106.30)											6230C3

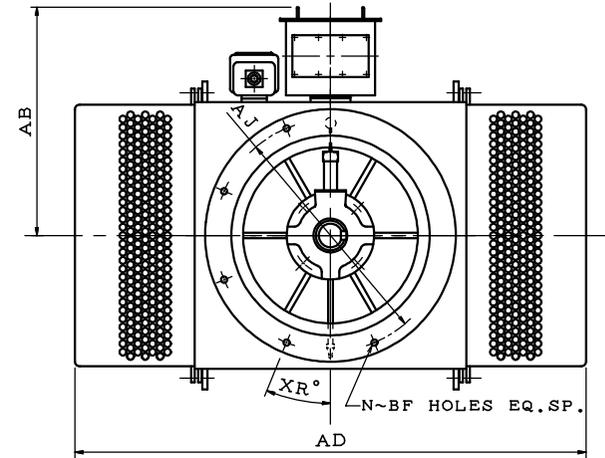
1. USABLE SHAFT LENGTH:V
2. UPPER BRG:ANTI-FRICTION BRG GREASE LUBRICATION
3. LOWER BRG:ANTI-FRICTION BRG GREASE LUBRICATION

OUTLINE DIMENSIONS SHEET
 DWG NO.
 3-PHASE INDUCTION MOTOR
 FRAME NO. (ERV)450M-1000A

VERTICAL STANDARD SOLID SHAFT, TEAAC TYPE, SQUIRREL CAGE ROTOR.



SHAFT EXTENSION DETAIL



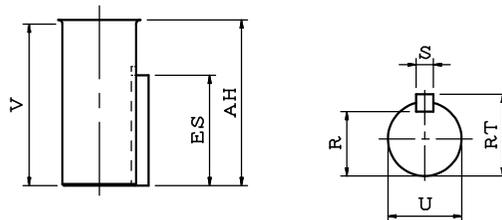
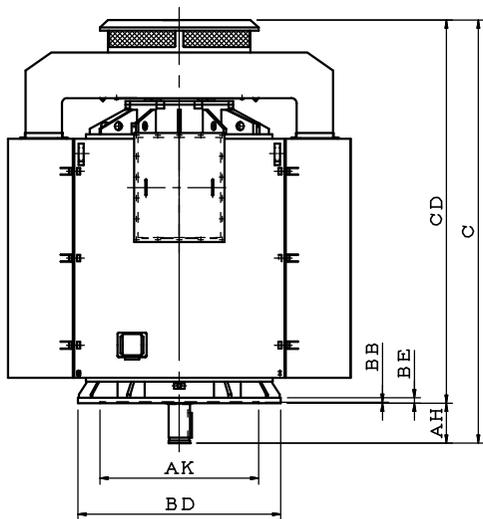
DIMENSIONS IN mm(INCH)

FRAME NO.	NO. OF POLES	MOUNTING							XR°	AB	AD	CD	C	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		AK	AJ	BD	BB	BE	N~BF	U						AH	V	R	ES	S	RT	UPPER	LOWER		
560M	4P&UP	965.2 (38)	1117.6 (44)	1220 (48)	10 (0.39)	40 (1.58)	8-28.5 (8-1.125)	22.5	1230 (48.4)	2306 (90.8)	2250 (88.6)	2460 (96.85)	125 (4.921)	210 (8.27)	197 (7.76)	114 (4.488)	160 (6.3)	32 (1.260)	132 (5.20)			560M	
560A	4P&UP										2470 (97.2)	2720 (107.09)	140 (5.512)	250 (9.84)	237 (9.33)	128 (5.039)	200 (7.8)	36 (1.417)	148 (5.83)	7324B	6230C3	560A	
560C	10P&UP										2750 (108.3)	3000 (118.11)										560C	
630M	4P&UP	1066.8 (42)	1219.2 (48)	1370 (54)	10 (0.39)	45 (1.78)	12-28.5 (12-1.125)	15°	1305 (51.4)	2555 (100.6)	2360 (92.9)	2610 (102.76)									6230C3	630M	
630A	4P&UP										2610 (102.8)	2910 (114.56)	160 (6.299)	300 (11.81)	287 (11.30)	147 (5.787)	250 (9.8)	40 (1.575)	169 (6.65)	7330B		630A	
630C	10P&UP										2960 (116.5)	3260 (128.35)									6234C3	630C	
710M	6P&UP	1117.6 (44)	1320.8 (52)	1525 (60)	10 (0.39)	45 (1.78)	12-28.5 (12-1.125)	15°	1378 (54.2)	2700 (106.3)	2515 (99.0)	2815 (110.81)									7330B	6234C3	710M
710A	6P&UP										2795 (110.0)	3095 (121.81)											710A
800M	6P&UP	1270.0 (50)	1473.2 (58)	1675 (66)	10 (0.39)	45 (1.78)	12-28.5 (12-1.125)	15°	1455 (57.3)	2955 (116.3)	2685 (105.7)	2985 (117.5)											800M
800A	6P&UP										3035 (119.5)	3335 (131.3)	180 (7.087)	300 (11.81)	287 (11.30)	165 (6.496)	250 (9.8)	45 (1.772)	190 (7.48)	7334B	6234C3	800M	
																					6238C3	800A	

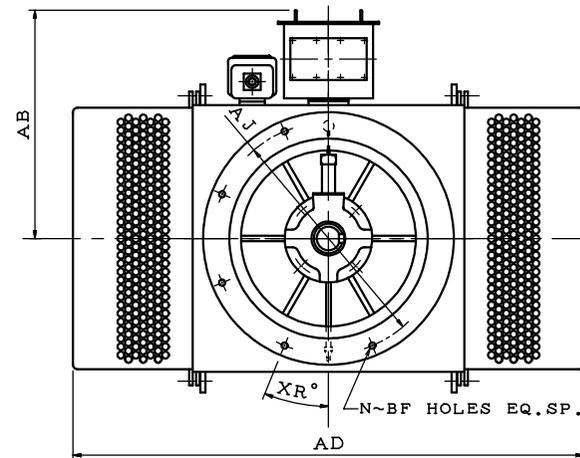
1. USABLE SHAFT LENGTH:V
2. UPPER BRG:ANTI-FRICTION BRG GREASE LUBRICAION
3. LOWER BRG:ANTI-FRICTION BRG GREASE LUBRICAION

OUTLINE DIMENSIONS SHEET
 DWG NO.
 3-PHASE INDUCTION MOTOR
 FRAME NO. (ERV)450M-1000A

VERTICAL STANDARD SOLID SHAFT, TEAAC TYPE, SQUIRREL CAGE ROTOR.



SHAFT EXTENSION DETAIL



DIMENSIONS IN mm(INCH)

FRAME NO.	NO. OF POLES	MOUNTING							AB	AD	CD	C	SHAFT EXTENSION				KEY SIZE			BEARING		FRAME NO.
		AK	AJ	BD	BB	BE	N~BF	XR					U	AH	V	R	ES	S	RT	UPPER	LOWER	
900M	8P&UP	1473.2 (58)	1676.4 (66)	1880 (74)	10 (0.39)	50 (1.97)	12-35 (12-1.38)	15°	1565 (61.6)	3175 (125.0)	3135 (123.4)	3485 (137.20)	200 (7.874)	350 (13.78)	337 (13.27)	185 (7.677)	280 (11.0)	45 (1.772)	210 (8.27)	8P: 29340+6038	6044C3	900M
900A	8P&UP										3535 (139.2)	3885 (152.95)	220 (8.661)	350 (13.78)	337 (13.27)	203 (7.992)	280 (11.0)	50 (1.969)	231 (9.09)	10P&UP: 29340	6048C3	900A
1000M	10P&UP	1676.4 (66)	1879.6 (74)	2085 (82)	10 (0.39)	50 (1.97)	12-35 (12-1.38)	15°	1665 (65.6)	3400 (133.9)	3435 (135.2)	3785 (149.02)								29340	6048C3	1000M
1000A	12P&UP										3835 (151.0)	4245 (167.13)	240 (9.449)	410 (16.14)	397 (15.63)	220 (8.661)	360 (14.2)	56 (2.205)	252 (9.92)		6052C3	1000A

1. USABLE SHAFT LENGTH:V
2. LOWER BRG:ANTI-FRICTION BRG GREASE LUBRICATION

OUTLINE DIMENSIONS SHEET
 DWG NO.
 3-PHASE INDUCTION MOTOR
 FRAME NO. (ERV)450M-1000A