

高壓半密型WPI泵浦用馬達 (實心軸)

MODEL : AMRKED

HIGH THRUST SOLIDSHAFT PUMP MOTORS
MEDIUM VOLTAGE SQUIRREL CAGE
FRAME SIZE (SGV) 5009 ~ 5810



		<h1 style="text-align: center;">SPECIFICATION TABLE</h1> <h2 style="text-align: center;">HIGH THRUST SOLIDSHAFT PUMP MOTORS MEDIUM VOLTAGE SQUIRREL CAGE</h2>		MODEL
				AMRKED
ITEM		STANDARD SPECIFICATION		
R A T I N G	KIND OF MOTOR	SQUIRREL-CAGE INDUCTION MOTOR (SCIM),VSS, ODP/WPI		
	DESIGN STANDARD	NEMA MG-1, PREMIUM EFFICIENCY		
	VOLTAGE	2300 / 4000V, 4160V		
	FREQUENCY	60HZ		
	OUTPUT RANGE	150 ~ 1000HP		
	R.P.M. (SYN.)	1800 ~ 900R.P.M. (4 ~ 8 POLE)		
	TIME DUTY	CONTINUOUS S.F. 1.15 OR S.F. 1.0 (S1, MCR)		
	FRAME SIZE (SGV)	5009 ~ 5810		
	PROTECTION ENCLOSURE	OPEN, DRIP PROOF (IP23), NEMA WEATHER-PROTECTED TYPE I(WPI)		
	COOLING METHOD	SELF VENTILATED, INTERIOR COOLING (IC 01)		
	MOUNTING	FLANGE MOUNTING (IM3011)		
HIGH THRUST LOAD	AS DWG NO. 3A057H908E			
A P P L I C A T I O N	POWER CONDITION	VOLTAGE : $\pm 10\%$, FREQUENCY $\pm 5\%$, AND 10% MAX. OF COMBINED VOLTAGE AND FREQUENCY, BUT FREQUENCY VARIATION DOES NOT EXCEED $\pm 5\%$		
	DESIGNED PRIMARILY	FOR DEEP WELL TURBINE PUMP		
	ENVIRONMENT CONDITIONS	PLACE : SHADOW, NON-HAZARDOUS AMBIENT TEMPERATURE : -15 ~ 40°C RELATIVE HUMIDITY : LESS THAN 80% RH (NON-CONDENSATION) ALTITUDE : LESS THAN 3,300 ft		
	DRIVE METHOD	DIRECT COUPLING		
	DIRECTION OF ROTATION	COUNTER-CLOCK-WISE FACING THE COUPLING END		
	METHOD OF STARTING	FULL VOLTAGE DIRECT-ON-LINE		
P E R F O R M A N C E	TEST PROCEDURE	IEEE-112 METHOD B AND FULL VOLTAGE MEASUREMENT STARTING PERFORMANCE FOR MOTORS 300HP AND UNDER. IEEE-112 METHOD E-F AND REDUCED VOLTAGE MEASUREMENT STARTING PERFORMANCE FOR OTHERS		
	TYPICAL PERFORMANCE	AS DWG NO. 3A057H908E		
	TEMPERATURE RISE	NOT TO EXCEED 105°C FOR S.F. 1.15 OR 80°C FOR S.F. 1.0 BY RESISTANCE METHOD		
	OVER SPEED	200HP AND SMALLER: 125% SYN. R.P.M. FOR TWO MINUTES (4P); 150% SYN. R.P.M. FOR TWO MINUTES (6P & 8P), 201HP AND LARGER: 125% SYN. R.P.M. FOR TWO MINUTES (4P AND SLOWER)		
	OVER TORQUE	160% RATED TORQUE FOR 15 SEC		

PERFORMANCE DATA

MODEL
AMRKED

HIGH THRUST SOLIDSHAFT PUMP MOTORS MEDIUM VOLTAGE SQUIRREL CAGE



DP, NEMA, CLASS F, 40°C AMBIENT,
CONTINUOUS DUTY, 1.15 S.F. 2300/4000V, 4160V 60HZ

TYPICAL PERFORMANCE

(2300V)

HP	FULL LOAD RPM	FRAME SIZE (SGV)	EFFICIENCY (%)				POWER FACTOR			CURRENT		TORQUE			ROTOR WR ² lb-ft ²	DOWN THRUST LBS	APPROX. ROTOR WEIGHT LBS	APPROX. WEIGHT LBS	REED FREQ. HZ
			FULL LOAD		3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD	LOCKED ROTOR	FULL LOAD	LOCKED ROTOR	BREAK- DOWN					
			NOM.	MIN.															
200	890	5009	93.6	92.4	93.4	92.5	73.0	65.3	52.2	55	316	1181	110	200	182	39500	1310	4210	29
250	890	5009	93.6	92.4	93.4	92.5	75.3	68.9	56.7	66	395	1476	100	190	234	39500	1500	4570	28
300	1186	5009	95.0	94.1	94.4	93.5	77.6	73.2	62.7	76	474	1330	110	190	143	33800	1160	4010	29
	890	5808	93.6	92.4	93.4	92.5	77.0	72.4	61.8	78	474	1772	90	190	464	39200	1970	5520	35
350	1783	5009	95.0	94.1	94.6	93.4	86.7	83.7	76.2	80	554	1031	100	200	107	30900	1010	3730	36
	1187	5009	95.0	94.1	94.7	94.0	75.9	73.2	62.8	91	554	1549	110	190	153	33800	1210	4110	29
	892	5808	93.6	92.4	93.4	92.5	78.0	72.3	60.7	90	554	2062	90	190	505	39200	2080	5770	34
400	1782	5009	95.0	94.1	94.7	93.5	86.8	84.0	76.7	91	633	1179	100	200	114	30900	1050	3820	36
	1187	5009	95.0	94.1	94.7	94.0	75.6	69.4	58.0	104	633	1771	120	190	160	33800	1240	4190	29
	892	5810	93.6	92.4	93.4	92.5	78.0	74.3	63.8	103	633	2357	80	190	556	38600	2350	6160	27
450	1782	5009	95.0	94.1	94.7	93.5	87.1	84.4	83.4	102	712	1327	100	200	124	30900	1090	3910	35
	1186	5806	95.0	94.1	94.9	94.2	80.2	75.4	64.7	111	712	1994	90	190	254	33600	1490	4630	45
	892	5810	93.6	92.4	93.4	92.5	78.0	72.6	61.2	115	712	2652	90	190	608	38600	2420	6400	27
500	1782	5009	95.0	94.1	94.7	93.6	87.6	85.2	78.7	113	791	1474	100	200	142	30900	1170	4090	34
	1186	5806	95.0	94.1	94.0	94.1	80.2	75.7	65.3	123	791	2215	80	190	262	33600	1570	4730	45
	892	5810	93.6	92.4	93.4	92.5	78.4	73.2	62.0	128	791	2946	90	190	659	38600	2560	6650	26
600	1784	5808	95.4	94.5	95.2	94.3	86.0	83.7	74.9	137	949	1767	80	200	237	30600	1560	5370	35
	1186	5808	95.0	94.1	94.8	94.0	80.3	75.6	65.2	147	949	2658	90	190	301	33300	1680	5180	36
	892	5810	94.1	93.0	93.9	93.0	78.7	73.8	63.0	152	949	3536	90	190	690	38600	2630	6800	26
700	1786	5810	95.4	94.5	95.2	94.3	86.0	82.6	74.3	160	1107	2059	90	200	274	30100	1650	5780	27
	1186	5808	95.0	94.1	94.8	94.0	81.2	77.3	67.9	170	1107	3101	90	190	349	33300	1820	5460	35
800	1786	5810	95.4	94.5	95.2	94.3	86.3	83.0	75.0	182	1265	2354	100	200	305	30100	1850	6030	27
	1186	5810	95.0	94.1	94.9	94.1	80.7	76.4	66.3	195	1265	3544	90	190	388	33000	1930	5850	28
900	1786	5810	95.4	94.5	95.2	94.3	86.7	84.5	75.8	204	1423	2648	100	200	336	30100	1950	6300	27
	1185	5810	95.0	94.1	94.9	94.1	81.5	77.9	68.8	218	1423	3991	90	190	428	33000	1970	6090	27
1000	1785	5810	95.4	94.5	95.2	94.3	87.3	84.8	78.0	225	1581	2944	90	210	379	30100	2090	6650	26

NOTE : 1. THE ABOVE ARE TYPICAL VALUES BASED ON TEST ACCORDING TO ANSI/IEEE STANDARD 112 METHOD F.

2. BREAKDOWN & LOCKED ROTOR TORQUES ARE SHOWN AS AVERAGE EXPECTED VALUES.

3. EFFICIENCY, POWER FACTOR, SPEED AND TORQUE ARE THE SAME FOR OTHER VOLTAGE.

CURRENT VALUES VARY INVERSELY WITH VOLTAGE.

4. DECLARED EFFICIENCY HAVEN'T TAKEN INTO ACCOUNT OF THRUST LOAD LOSSES

5. TOLERANCE ACCORDING TO NEMA MG1-12.

6. REDUCING THE THRUST LOAD WILL INCREASE BEARING LIFE AS FOLLOWS :

THUST(%)	100	84	77	67	61
MIN. LIFE(Hrs)	8800	15000	20000	30000	40000

7. THE MAXIMUM MOMENTARY UP THRUST IS 30% OF STANDARD DOWN THRUST.

8. EFFICIENCY AT NO THRUST RUNNING

9. THE VOLTAGE AND FREQUENCY COMBINATIONS NOT INCLUDED IN PERFORMANCE DATA ARE QUOTED CASE BY CASE.

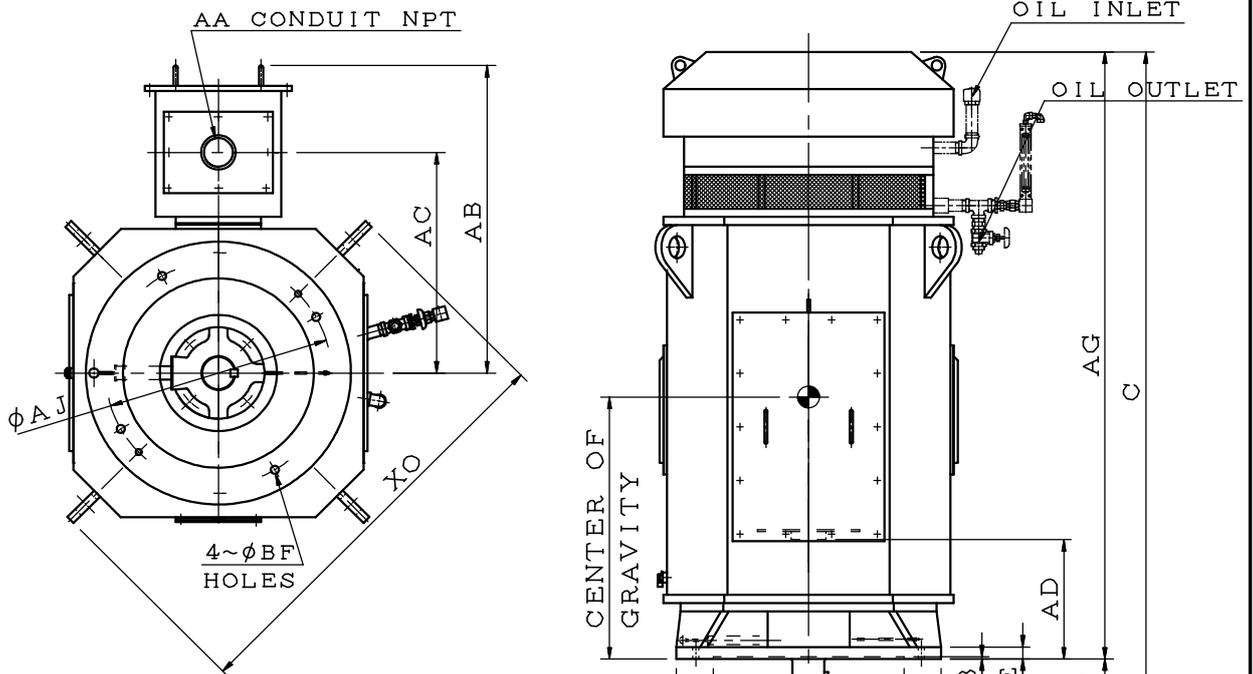
OUTLINE DIMENSIONS SHEET

MODEL

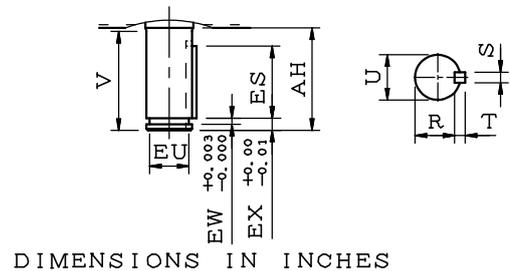
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HIGH THRUST SOLIDSHAFT PUMP MOTORS
FRAME SIZE (SGV) 5009 ~ 5810

DRIP PROOF SQUIRREL CAGE, NEMA WEATHER PROTECTED I



FRAME SIZE (SGV)	MOUNTING					
	BD	AK	AJ	BF	BB	BE
5000	20.00	13.5	14.75	0.69	0.25	1.18
	*24.50	13.5	14.75	0.69		
			22.00	0.94		
	30.50	22.0	26.00	0.81		
5800	24.50	13.5	22.00	0.94	0.25	1.38
	*30.50	22.0	26.00	0.81		
	36.00	26.0	32.00	1.00		



DIMENSIONS IN INCHES

FRAME SIZE (SGV)	SHAFT EXTENSION				RING GROOVE			KEY SIZE		
	U	AH	V	R	EU	EW	EX	ES	S	T
5000	3.375	7.50	7.00	2.880	3.000	0.500	1.00	5.00	0.875	0.875
5800	3.875	7.50	7.00	3.309	3.375			5.50	1.000	1.000

FRAME SIZE (SGV)	TERMINAL HOUSING				AG	C	XO	BEARING		CENTER OF GRAVITY
	AA	AB	AC	AD				UPPER END	LOWER END	
5009	NPT4"	32.88	22.80	8.35	63.40	70.90	40.69	29330E + 6028	6220C3	24.4
5806				7.00	62.60	70.10			6224C3	23.7
5808	NPT5"	36.58	25.63	9.95	68.50	76.00	48.19			26.7
5810				13.70	75.98	83.48				30.4

- NOTE: 1. DIMENSION AK TOLERANCE: +0.005INCH, -0.000INCH
 2. DIMENSION U TOLERANCE: +0.000INCH, -0.001INCH
 3. DIMENSION R TOLERANCE: +0.000INCH, -0.015INCH
 4. DIMENSION EU TOLERANCE: +0.000INCH, -0.010INCH
 5. DIMENSION AH TOLERANCE: +0.06INCH, -0.06INCH
 6. WITH BALL TYPE NON-REVERSE RATCHET MECHANISM
 7. ROTATING DIRECTION: COUNTER CLOCK-WISE (VIEW FROM TOP)
 8. * MARKED TABLE APPLIED TO STANDARD SIZE