

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

ROYCE CROSS GROUP

Type	Y3-132M1-6		Poles	6		Power	4.0 kW
Voltage	415 V		Current	8.3 A		Frequency	50 Hz
Speed	967 r/min		Duty	S1		Connection	△
Ins. class	F		Weight	0 kg			IP55

NO LOAD TEST

VOL	mul.	HZ	I01	I02	I03	mul.	W1	W2	mul.	
487.5	1	50	3.948	4.001	3.889	2	-849.6	1159.9	2	75.3
453.9	1	50	3.059	3.104	3.026	2	-623.9	822.6	2	75.9
415.7	1	50	2.349	2.384	2.339	2	-441.2	571.0	2	76.2
364.9	1	50	1.773	1.791	1.777	2	-287.6	375.8	2	76.2
314.1	1	50	1.409	1.419	1.412	2	-192.5	258.8	2	76.1
260.9	1	50	1.115	1.122	1.116	2	-122.5	173.2	2	75.9
206.2	1	50	0.850	0.858	0.852	2	-70.4	107.3	2	75.6
174.7	1	50	0.712	0.719	0.712	2	-47.2	78.4	2	75.3
143.2	1	50	0.579	0.584	0.579	2	-28.2	54.5	2	74.9
109.0	1	50	0.446	0.450	0.446	2	-12.8	35.0	2	74.5

ROYCE CROSS GROUP		Manufacturing Date	Serial No
		0.00	0
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ROYCE CROSS GROUP

Type	Y3-132M1-6	Poles	6	Power	4.0	kW
Voltage	415 V	Current	8.3 A	Frequency	50.0	Hz
Speed	967 r/min	Duty	S1	Connection		
Ins. class	F	Weight	0 kg		IP55	

LOCKED ROTOR TEST

VOL	mul.	Ik1	Ik2	Ik3	mul.	W1	W2	mul.	Torqu (kg. m)
415.9	1.0	2.479	2.477	2.465	20.0	0.0	1027.3	20	8.14
365.2	1.0	2.048	2.044	2.034	20.0	0.0	738.7	20	5.70
321.6	1.0	1.698	1.693	1.685	20.0	-12.5	534.0	20	4.11
268.0	1.0	1.301	1.297	1.287	20.0	-19.1	334.6	20	2.52
220.0	1.0	1.953	1.947	1.928	10.0	-40.7	404.5	10	1.51
159.2	1.0	1.236	1.234	1.219	10.0	-28.9	179.8	10	0.63
110.3	1.0	1.528	1.528	1.515	5.0	-31.5	149.3	5	0.23

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ROYCE CROSS GROUP

Type	Y3-132M1-6		Poles	6		Power	4 kW	
Voltage	415 V		Current	8.3 A		Frequency	50 Hz	
Speed	967 r/min		Duty	S1		Connection		
Ins. class	F		Weight	0 kg		IP55		

TEMPERATURE RISE TEST

TIME (h:min)	V	I1	I2	I3	mul.	W1	W2	mul.	T1 °C	T2 °C	T3 °C	T4 °C	T5 °C	T6 °C	T7 °C	T8 °C	T9 °C	T10 °C	T11 °C	T12 °C	T13 °C	
12.00	416.0	4.149	4.190	4.177	2	537.0	1812.3	2	51.6	—	87.3	87.0	—	—	—	—	—	—	—	—	—	23.6
12.29	416.1	4.145	4.188	4.175	2	535.5	1811.3	2	52.5	—	88.4	88.2	—	—	—	—	—	—	—	—	—	23.6
13.00	416.2	4.141	4.181	4.168	2	534.3	1808.5	2	53.6	—	89.0	88.7	—	—	—	—	—	—	—	—	—	24.1
13.29	415.5	4.147	4.188	4.175	2	537.5	1809.8	2	53.9	—	89.7	89.4	—	—	—	—	—	—	—	—	—	24.4
14.02	415.5	4.143	4.183	4.171	2	537.0	1807.8	2	54.1	—	89.9	89.7	—	—	—	—	—	—	—	—	—	24.4
14.29	415.7	4.145	4.186	4.175	2	537.3	1810.0	2	54.2	—	90.2	90.0	—	—	—	—	—	—	—	—	—	24.4
最后三点平均值		8.336			A	4692.833		W	54.2	—	89.9	89.7	—	—	—	—	—	—	—	—	—	24.4

T1 T2: DE BEARING TEMPERATURE
T3~T10: DE WINDING TEMPERATURE

T11: CORE TEMPERATRE
T13: AMBIENT TEMPERATURE

T12: FRAME TEMPERATRE

WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIME (S)	47	80	97	115	131	159	184	211		
RESISTANCE	2.85500	2.84100	2.83100	2.82100	2.81400	2.80400	2.79700	2.79100		

WINDING RESISTANCE (COLD)

△	U1-V1	U1-W1	V1-W1	AVERAGE	MIN	AMBIENT TEM.
	2.272	2.268	2.268	2.26933	2.26800	18.6 °C
Y	U1-U2	V1-V2	W1-W2	AVERAGE	MIN	AMBIENT TEM.
	0	0	0	0.000	0	0 °C

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Speed	967	r/min	Duty	S1	Connection			
Ins. class		F	Weight	0	kg	IP55		

LOAD TEST

V	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	r/min
415.0	50.00	1.998	2.016	2.014	5	309.8	884.6	5	958.5
415.0	50.00	1.876	1.893	1.891	5	278.7	828.2	5	961.9
415.1	50.00	4.163	4.204	4.195	2	548.8	1824.8	2	968.3
414.9	50.00	3.832	3.875	3.860	2	446.0	1665.0	2	972.5
415.0	50.01	3.428	3.469	3.452	2	305.3	1463.3	2	977.3
415.2	50.00	2.849	2.888	2.864	2	50.8	1138.0	2	985.9
415.0	50.01	2.679	2.717	2.689	2	-47.5	1022.3	2	988.8

% LOAD	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P. F.
150	6000	7112.9	11.648	601.0	5.153	328.7	45.8	84.35	0.850
125	5000	5851.2	9.878	432.2	4.150	219.4	32.9	85.45	0.824
100	4000	4619.9	8.214	298.9	3.139	131.5	22.7	86.58	0.783
75	3000	3460.2	6.822	206.2	2.283	71.2	15.7	86.70	0.706
50	2000	2351.3	5.713	144.6	1.426	29.6	11.0	85.06	0.573
25	1000	1293.2	5.007	111.0	0.734	7.7	8.5	77.33	0.359

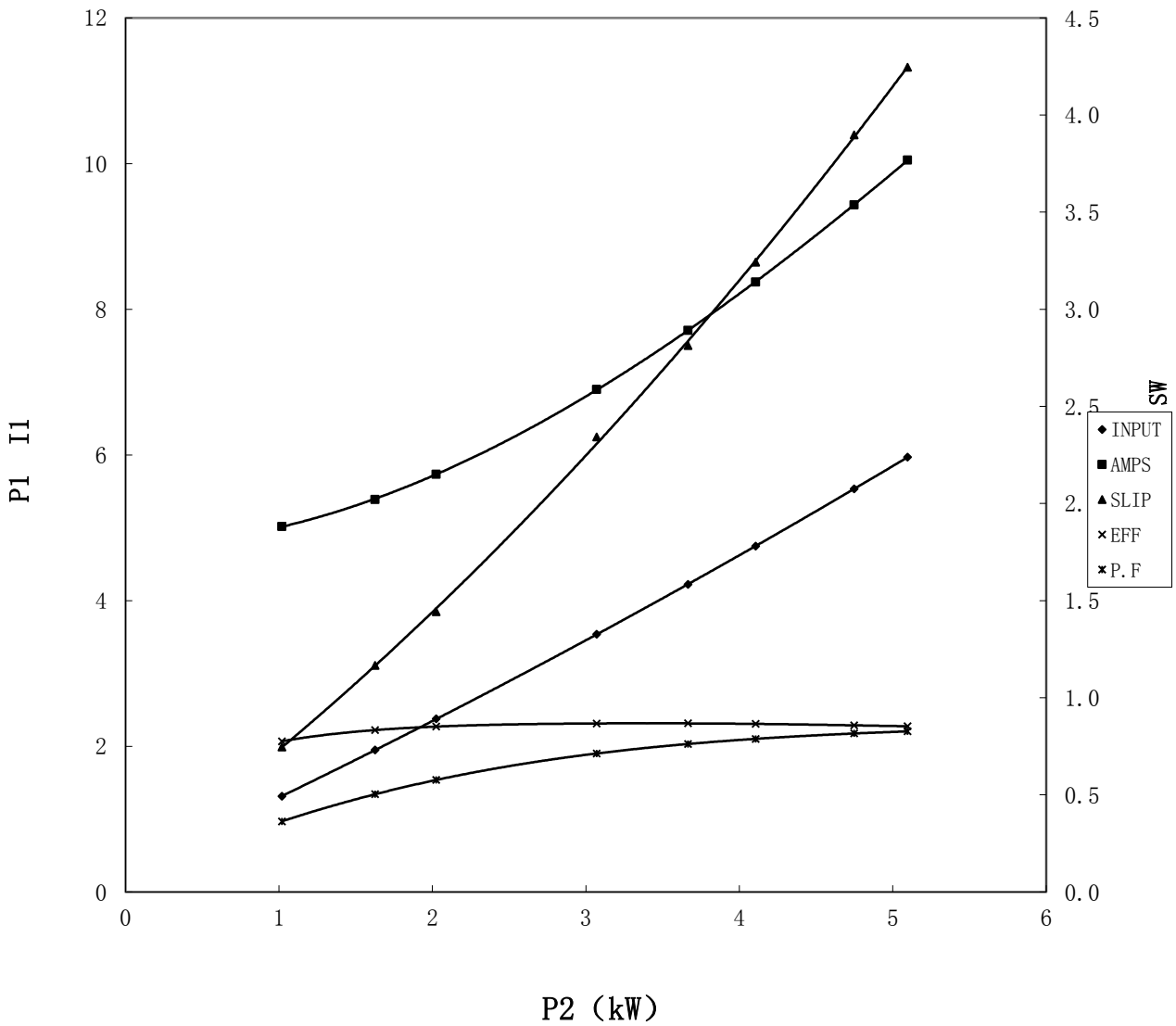
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Type	Y3-132M1-6	Poles	6	output Power	4.0	kW		
Voltage	415	V	Current	8.3	A	Frequency	50.0	Hz
Speed	967	r/min	Duty	S1	Connection			
Ins. class	F	Weight	0	kg			IP55	

Load Curve



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