

KECL-UNIT-II	IE2 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>2 POLE</u>	DATE	11-Nov-15
ENGINEERING		PAGE	01 OF 03

Supply : 3 Ph, 415 V +/- 10%, 50Hz +/- 5%, Combined Variation +/- 10%
Ambient : 50°C, Temperature Rise 70°C [Standard (RC), 'n' type (nRC)]
Ambient : 40°C, Temperature Rise 70°C ['e' type (eRC)]
Enclosure : IP 55 / IC 411

FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME	
								F.L.	3/4	1/2	F.L.	3/4	1/2		(kg-m ²)	Cold
71	0.37	2800	0.9	5.0	2.80	2.6	3.0	72.2	72.2	66.0	0.82	0.76	0.60	0.0026	15	10
71	0.55	2800	1.2	5.0	2.80	2.6	3.0	74.8	74.8	70.0	0.82	0.76	0.60	0.0026	15	10
80	0.75	2810	1.6	6.0	2.80	2.6	3.0	77.4	77.4	72.0	0.84	0.76	0.60	0.0027	15	10
80	1.1	2820	2.3	6.0	2.80	2.6	3.0	79.6	79.6	76.0	0.84	0.78	0.68	0.0036	15	10
90S	1.5	2830	3.0	6.0	2.75	2.5	3.0	81.3	81.3	78.0	0.87	0.78	0.70	0.0052	18	12
90L	2.2	2830	4.2	6.0	2.80	2.6	3.0	83.2	83.2	80.0	0.87	0.78	0.70	0.0068	18	12
100L	3.7	2845	6.9	7.0	3.00	2.8	3.2	85.5	85.5	82.0	0.87	0.84	0.76	0.010	18	12
132S	5.5	2895	9.8	7.0	2.50	2.3	3.0	87.0	87.0	84.0	0.90	0.88	0.84	0.043	18	12
132S	7.5	2900	13.2	7.0	2.50	2.3	3.0	88.1	88.1	86.0	0.90	0.88	0.84	0.052	18	12
160M	9.3	2925	16.2	7.0	2.50	2.3	3.0	88.9	88.9	86.0	0.90	0.88	0.84	0.18	18	12
160M	11	2935	19.0	7.0	2.50	2.3	2.8	89.4	89.4	86.0	0.90	0.88	0.84	0.18	18	12
160M	15	2935	26	7.0	2.75	2.4	3.0	90.3	90.3	88.0	0.90	0.88	0.84	0.23	18	12
160L	18.5	2935	31	7.0	3.00	2.6	3.0	90.9	90.9	88.0	0.90	0.88	0.84	0.26	18	12
180M	22	2945	37	7.0	2.00	1.8	2.8	91.3	91.3	88.0	0.90	0.88	0.84	0.40	20	15
200L	30	2950	50	7.0	2.50	2.3	3.0	92.0	92.0	88.0	0.90	0.88	0.84	0.75	20	15
200L	37	2950	62	7.0	2.50	2.3	3.2	92.5	92.5	90.0	0.90	0.88	0.82	0.85	20	15
225M	45	2950	75	7.0	2.30	2.0	2.8	92.9	92.9	90.0	0.90	0.88	0.82	2.3	25	20
250M	55	2955	91	7.0	2.20	2.0	2.5	93.2	93.2	90.0	0.90	0.88	0.82	3.3	30	20
280S	75	2960	124	7.0	2.00	1.8	2.5	93.8	93.8	91.0	0.90	0.88	0.82	6.5	35	25
280M	90	2960	148	7.0	1.80	1.6	2.5	94.1	94.1	91.0	0.90	0.88	0.82	7.4	35	25
315S	110	2962	180	7.0	1.80	1.6	2.6	94.3	94.3	89.7	0.90	0.87	0.80	8.0	35	25
315M	125	2967	204	7.0	1.80	1.6	2.6	94.5	94.5	90.2	0.90	0.88	0.80	9.0	35	25
315M	132	2967	216	7.0	1.80	1.6	2.6	94.6	94.6	90.2	0.90	0.88	0.80	9.5	35	25
315L	160	2967	261	7.0	1.80	1.6	2.6	94.8	94.8	91.2	0.90	0.88	0.80	12.0	35	25

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 tolerance.

PREPARED : AAH	CHECKED : KSR	APPROVED : RNV	KHD- 50-106 R1
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KECL-UNIT-II	IE2 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>4 POLE</u>	DATE	11-Nov-15
ENGINEERING		PAGE	02 OF 03

Supply : 3 Ph, 415 V +/- 10%, 50Hz +/- 5%, Combined Variation +/- 10%
Ambient : 50°C, Temperature Rise 70°C [Standard (RC), 'n' type (nRC)]
Ambient : 40°C, Temperature Rise 70°C ['e' type (eRC)]
Enclosure : IP 55 / IC 411

FRAME	OUTPUT (kW)	FLS (rpm)	FLC (Amps)	LRC (pu)	LRT (pu)	PUT (pu)	POT (pu)	%EFFICIENCY			POWER FACTOR			GD2 (kg-m ²)	STALL TIME	
								F.L.	3/4	1/2	F.L.	3/4	1/2		Cold	Hot
71	0.37	1392	1.0	5.0	2.6	2.4	2.75	70.1	70.1	68.0	0.74	0.64	0.50	0.0026	18	10
80	0.55	1392	1.4	5.0	2.6	2.4	2.75	75.1	75.1	70.0	0.75	0.68	0.54	0.0039	18	10
80	0.75	1392	1.7	5.0	2.6	2.4	2.75	79.6	79.6	74.0	0.75	0.68	0.54	0.0053	18	10
90S	1.1	1400	2.4	5.0	2.5	2.3	2.50	81.4	81.4	78.0	0.80	0.72	0.56	0.009	18	10
90L	1.5	1405	3.2	5.0	2.6	2.4	2.75	82.8	82.8	80.0	0.80	0.72	0.56	0.012	18	10
100L	2.2	1415	4.5	6.0	3.0	2.8	3.30	84.3	84.3	82.0	0.80	0.74	0.64	0.016	18	10
112M	3.7	1430	7.3	6.0	2.5	2.3	2.75	86.3	86.3	84.0	0.82	0.76	0.64	0.037	18	10
132S	5.5	1440	10.6	6.5	2.3	2.1	2.60	87.7	87.7	85.0	0.82	0.76	0.66	0.089	18	10
132M	7.5	1450	14.0	6.5	2.5	2.3	3.00	88.7	88.7	86.0	0.84	0.76	0.66	0.116	18	10
160M	9.3	1452	17.2	6.5	2.4	2.2	3.00	89.3	89.3	86.0	0.84	0.82	0.72	0.27	18	10
160M	11	1454	20.3	6.5	2.4	2.2	3.00	89.8	89.8	87.0	0.84	0.82	0.74	0.27	18	10
160L	15	1455	27.1	7.0	2.2	2.0	2.80	90.6	90.6	88.0	0.85	0.82	0.74	0.33	18	10
180M	18.5	1472	33	7.0	2.4	2.2	3.00	91.2	91.2	89.0	0.85	0.82	0.75	0.62	20	15
180L	22	1472	38	6.5	2.2	2.0	2.75	91.6	91.6	89.0	0.87	0.82	0.75	0.72	20	15
200L	30	1475	50	6.5	2.2	2.0	2.8	92.3	92.3	90.0	0.90	0.88	0.80	1.7	20	15
225S	37	1474	62	6.5	2.5	2.3	2.7	92.7	92.7	90.0	0.90	0.88	0.80	2.3	25	20
225M	45	1474	75	6.5	2.5	2.3	2.7	93.1	93.1	91.0	0.90	0.88	0.80	2.5	25	20
250M	55	1480	94	7.0	2.3	2.1	2.8	93.5	93.5	91.0	0.87	0.84	0.80	4.4	40	25
280S	75	1482	128	7.0	2.0	1.8	3.0	94.0	94.0	92.0	0.87	0.84	0.80	7.8	50	25
280M	90	1483	153	7.0	2.2	2.0	3.0	94.2	94.2	92.0	0.87	0.84	0.80	9.5	50	25
315S	110	1482	186	7.0	2.2	2.0	3.0	94.5	94.5	91.2	0.87	0.84	0.76	13.0	60	30
315M	125	1483	211	7.0	2.0	1.6	2.5	94.6	94.6	91.2	0.87	0.85	0.80	14.0	60	30
315M	132	1483	220	7.0	2.3	2.1	3.0	94.7	94.7	91.2	0.88	0.86	0.80	14.5	60	30
315L	160	1483	267	7.0	2.5	2.3	3.0	94.9	94.9	91.2	0.88	0.86	0.81	16.5	60	30

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 tolerance.

PREPARED :PREPARED : AAH	CHECKED : KSR	APPROVED : RNV	KHD- 50-106 R1
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KECL-UNIT-II	IE2 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>6 POLE</u>	DATE	11-Nov-15
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Supply : 3 Ph, 415 V +/- 10%, 50Hz +/- 5%, Combined Variation +/- 10%
Ambient : 50°C, Temperature Rise 70°C [Standard (RC), 'n' type (nRC)]
Ambient : 40°C, Temperature Rise 70°C ['e' type (eRC)]
Enclosure : IP 55 / IC 411

FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME	
								F.L.	3/4	1/2	F.L.	3/4	1/2		(kg-m ²)	Cold
80	0.37	915	1.1	5.0	2.2	2.0	2.4	69.0	69.0	65.0	0.65	0.56	0.46	0.0070	20	12
80	0.55	915	1.5	5.0	2.2	2.0	2.4	72.9	72.9	68.0	0.70	0.58	0.46	0.0099	20	12
90S	0.75	915	1.9	5.0	2.2	2.0	2.4	75.9	75.9	70.0	0.74	0.66	0.54	0.0165	20	12
90L	1.1	920	2.6	5.0	2.2	2.0	2.3	78.1	78.1	72.0	0.75	0.66	0.56	0.018	20	12
100L	1.5	935	3.5	5.0	2.0	1.6	2.3	79.8	79.8	74.0	0.75	0.66	0.56	0.036	20	12
112M	2.2	940	4.9	5.5	2.3	2.1	2.3	81.8	81.8	78.0	0.76	0.68	0.56	0.061	20	12
132S	3.7	950	7.6	5.5	2.3	2.1	2.5	84.3	84.3	80.0	0.80	0.72	0.60	0.116	20	12
132M	5.5	954	11.1	6.0	2.4	2.2	2.6	86.0	86.0	83.0	0.80	0.74	0.60	0.158	20	12
160M	7.5	965	14.4	6.0	2.4	2.2	2.6	87.2	87.2	85.0	0.83	0.76	0.65	0.39	20	12
160L	9.3	965	17.7	6.0	2.2	2.0	2.5	88.1	88.1	85.0	0.83	0.76	0.65	0.50	20	12
160L	11.0	965	20.5	6.0	2.2	2.0	2.5	88.7	88.7	86.0	0.84	0.78	0.65	0.50	20	12
180L	15.0	970	28.4	6.0	1.8	1.6	2.2	89.7	89.7	87.0	0.82	0.77	0.73	0.75	20	15
200L	18.5	971	34	6.0	2.2	2.0	2.4	90.4	90.4	88.0	0.84	0.80	0.72	1.50	20	15
200L	22	970	41	6.0	2.0	1.8	2.5	90.9	90.9	88.0	0.83	0.80	0.72	1.75	20	15
225M	30	974	54	6.0	2.0	1.8	2.2	91.7	91.7	90.0	0.84	0.82	0.76	2.5	20	15
250M	37	983	65	6.5	1.8	1.6	2.5	92.2	92.2	90.0	0.86	0.82	0.76	5.1	50	30
280S	45	985	79	6.5	2.4	2.2	2.8	92.7	92.7	90.0	0.86	0.82	0.76	8.0	60	35
280M	55	985	96	6.0	2.2	2.0	2.5	93.1	93.1	91.0	0.86	0.82	0.76	9.3	60	35
315S	75	986	129	7.0	2.4	2.2	2.8	93.7	93.7	89.7	0.86	0.82	0.74	15.5	60	35
315M	90	987	155	7.0	2.4	2.2	2.7	94.0	94.0	90.7	0.86	0.82	0.74	17.5	60	35
315M	110	987	189	7.0	2.4	2.2	2.7	94.3	94.3	91.2	0.86	0.82	0.74	20.0	60	35
315L	125	987	214	7.0	2.4	2.2	2.7	94.4	94.4	91.2	0.86	0.82	0.74	22.0	60	35
315L	132	987	226	7.0	2.4	2.2	2.7	94.6	94.6	91.2	0.86	0.82	0.74	23.5	60	35

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 tolerance.

PREPARED : AAH	CHECKED : KSR	APPROVED : RNV	KHD- 50-106 R1
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