

KECL-UNIT-II	IE3 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>2 POLE</u> STANDARD (RC), 'n' TYPE (nRC), 'e' TYPE (eRC)	DATE	20-May-16
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 (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	2800	0.8	5.0	3.5	3.2	3.7	75.5	75.5	69.3	0.82	0.76	0.60	0.0026	15	10
71	0.55	2800	1.2	5.0	2.5	2.3	2.7	78.1	78.1	70.0	0.82	0.76	0.60	0.0026	15	10
80	0.75	2815	1.5	6.0	3.0	2.8	3.5	80.7	80.7	75.3	0.84	0.76	0.60	0.0027	15	10
80	1.1	2820	2.2	6.0	3.0	2.8	3.5	82.7	82.7	77.1	0.84	0.78	0.68	0.0036	15	10
90S	1.5	2840	2.8	6.0	2.8	2.5	3.0	84.2	84.2	79.0	0.87	0.78	0.70	0.0052	18	12
90L	2.2	2842	4.1	6.0	3.0	2.8	3.3	85.9	85.9	82.5	0.87	0.78	0.70	0.0068	18	12
100L	3.7	2850	6.7	7.0	3.2	3.0	3.5	87.8	87.8	84.0	0.87	0.84	0.76	0.010	18	12
132S	5.5	2900	9.5	7.7	2.8	2.5	3.5	89.2	89.2	86.5	0.90	0.88	0.84	0.043	18	12
132S	7.5	2910	12.9	7.7	2.5	2.3	2.7	90.1	90.1	88.0	0.90	0.88	0.84	0.052	18	12
160M	9.3	2942	15.9	7.7	2.6	2.4	3.5	90.7	90.7	88.5	0.90	0.88	0.84	0.18	18	12
160M	11	2942	18.6	7.7	2.6	2.4	3.5	91.2	91.2	89.0	0.90	0.88	0.84	0.18	18	12
160M	15	2942	25.2	7.7	2.8	2.5	3.5	91.9	91.9	89.6	0.90	0.88	0.84	0.23	18	12
160L	18.5	2945	31	7.7	3.0	2.6	3.5	92.4	92.4	90.1	0.90	0.88	0.84	0.26	18	12
180M	22	2945	37	7.7	2.3	2.0	3.3	92.7	92.7	90.5	0.90	0.88	0.84	0.40	20	15
200L	30	2950	50	7.7	2.7	2.4	3.5	93.3	93.3	91.0	0.90	0.88	0.84	0.75	20	15
200L	37	2952	61	7.7	2.7	2.4	3.5	93.7	93.7	91.3	0.90	0.88	0.82	0.85	20	15
225M	45	2955	74	7.7	2.5	2.2	3.5	94.0	94.0	92.0	0.90	0.88	0.82	2.3	25	20
250M	55	2960	90	7.7	2.5	2.2	3.5	94.3	94.3	92.2	0.90	0.88	0.82	3.3	30	20
280S	75	2960	122	7.7	2.0	1.8	3.0	94.7	94.7	92.3	0.90	0.88	0.82	6.0	40	25
280M	90	2962	146	7.7	2.0	1.8	3.5	95.0	95.0	92.5	0.90	0.88	0.82	7.0	40	25
315S	110	2962	179	7.7	2.0	1.8	3.5	95.2	95.2	92.7	0.90	0.88	0.82	8.0	40	25
315M	125	2968	203	7.7	2.0	1.8	3.5	95.3	95.3	92.8	0.90	0.88	0.82	8.8	40	25
315M	132	2968	214	7.7	2.0	1.8	3.5	95.4	95.4	93.0	0.90	0.88	0.82	8.8	40	25
315L	160	2968	259	7.7	2.0	1.8	3.5	95.6	95.6	93.2	0.90	0.88	0.82	10.0	40	25

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

PREPARED : AAH

CHECKED : RNV

APPROVED : RNV

KHD- 50-112

KECL-UNIT-II	IE3 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>4 POLE</u> STANDARD (RC), 'n' TYPE (nRC), 'e' TYPE (eRC)	DATE	20-May-16
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	1395	1.0	5.0	2.6	0.5	2.75	73.0	73.0	69.0	0.74	0.64	0.51	0.0026	18	10
80	0.55	1395	1.3	5.0	2.6	2.4	2.75	78.0	78.0	73.0	0.75	0.68	0.54	0.0039	18	10
80	0.75	1395	1.7	5.0	2.6	2.4	2.75	82.5	82.5	76.0	0.75	0.68	0.54	0.0053	18	10
90S	1.1	1405	2.3	5.0	2.5	2.3	2.70	84.1	84.1	80.0	0.80	0.72	0.56	0.009	18	10
90L	1.5	1410	3.1	5.0	2.8	2.5	2.75	85.3	85.3	82.0	0.80	0.72	0.56	0.012	18	10
100L	2.2	1425	4.4	6.0	3.2	3.0	3.50	86.7	86.7	84.4	0.80	0.73	0.60	0.016	18	10
112M	3.7	1435	7.1	6.0	2.7	2.5	2.90	88.4	88.4	86.0	0.82	0.76	0.64	0.037	18	10
132S	5.5	1450	10.4	7.5	2.8	2.6	3.30	89.6	89.6	86.2	0.82	0.74	0.63	0.089	18	10
132M	7.5	1452	13.9	7.5	2.8	2.6	3.30	90.4	90.4	87.7	0.83	0.76	0.64	0.116	18	10
160M	9.3	1454	16.9	7.0	2.5	2.3	3.00	90.9	90.9	88.5	0.84	0.82	0.72	0.27	18	10
160M	11	1456	19.9	7.0	2.5	2.3	3.00	91.4	91.4	89.0	0.84	0.82	0.72	0.27	18	10
160L	15	1458	26.7	7.0	2.3	2.1	3.00	92.1	92.1	89.5	0.85	0.82	0.74	0.33	18	10
180M	18.5	1475	33	7.0	2.5	2.3	3.30	92.6	92.6	90.3	0.85	0.80	0.70	0.62	20	15
180L	22	1476	38	7.0	2.5	2.3	3.20	93.0	93.0	90.7	0.86	0.81	0.71	0.72	20	15
200L	30	1476	50	7.5	2.7	2.5	3.30	93.6	93.6	91.3	0.89	0.85	0.77	1.7	20	15
225S	37	1479	62	7.7	3.0	2.8	3.50	93.9	93.9	91.5	0.89	0.86	0.77	2.8	25	20
225M	45	1479	74	7.7	3.0	2.8	3.30	94.2	94.2	92.0	0.90	0.88	0.77	3.2	25	20
250M	55	1481	93	7.7	2.3	2.1	3.30	94.6	94.6	92.5	0.87	0.84	0.77	4.5	40	25
280S	75	1483	125	7.7	2.5	2.3	3.30	95.0	95.0	92.5	0.88	0.84	0.76	8.0	40	25
280M	90	1484	149	7.7	2.2	2.0	3.30	95.2	95.2	92.8	0.88	0.85	0.77	10.0	40	25
315S	110	1484	182	7.5	2.5	2.3	3.30	95.4	95.4	92.8	0.88	0.85	0.77	14.0	40	25
315M	125	1484	207	7.0	2.5	2.3	3.00	95.5	95.5	93.0	0.88	0.85	0.77	16.0	40	25
315M	132	1484	218	7.0	2.6	2.4	3.00	95.6	95.6	93.2	0.88	0.85	0.77	16.0	40	25
315L	160	1485	264	7.0	2.7	2.5	3.20	95.8	95.8	93.2	0.88	0.85	0.77	18.0	40	25

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

PREPARED :PREPARED : AAH

CHECKED : RNV

APPROVED : RNV

KHD- 50-112

KECL-UNIT-II	IE3 - PERFORMANCE FIGURES FOR RAVI SERIES MOTORS - <u>6 POLE</u> STANDARD (RC), 'n' TYPE (nRC), 'e' TYPE (eRC)	DATE	20-May-16
ENGINEERING		PAGE	03 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
80	0.37	915	1.1	5.0	2.4	2.2	2.5	71.9	71.9	67.0	0.65	0.56	0.46	0.0070	20	12
80	0.55	915	1.4	5.0	2.2	2.0	2.4	75.9	75.9	69.0	0.70	0.58	0.46	0.0099	20	12
90S	0.75	915	1.8	5.0	2.2	2.0	2.5	78.9	78.9	73.0	0.74	0.66	0.54	0.0165	20	12
90L	1.1	920	2.5	5.0	2.2	2.0	2.3	81.0	81.0	75.2	0.75	0.66	0.56	0.018	20	12
100L	1.5	935	3.4	5.0	2.3	2.1	2.3	82.5	82.5	76.7	0.75	0.66	0.56	0.036	20	12
112M	2.2	940	4.8	5.5	2.3	2.1	2.3	84.3	84.3	78.0	0.76	0.68	0.56	0.061	20	12
132S	3.7	950	7.4	5.5	2.3	2.1	2.5	86.5	86.5	81.2	0.80	0.72	0.60	0.116	20	12
132M	5.5	954	10.9	6.0	2.5	2.3	2.7	88.0	88.0	84.0	0.80	0.74	0.60	0.158	20	12
160M	7.5	965	14.1	6.0	2.5	2.3	2.7	89.1	89.1	86.1	0.83	0.76	0.65	0.39	20	12
160L	9.3	965	17.4	6.0	2.4	2.2	2.5	89.7	89.7	86.5	0.83	0.76	0.65	0.50	20	12
160L	11	965	20.2	6.0	2.4	2.2	2.5	90.3	90.3	87.6	0.84	0.78	0.65	0.50	20	12
180L	15	971	27.9	6.0	2.0	1.8	2.3	91.2	91.2	88.5	0.82	0.77	0.73	0.75	20	15
200L	18.5	972	33	6.0	2.5	2.3	2.5	91.7	91.7	89.3	0.84	0.80	0.72	1.50	20	15
200L	22	971	40	6.0	2.5	2.3	2.5	92.2	92.2	89.5	0.83	0.80	0.72	1.75	20	15
225M	30	975	53	6.0	2.2	2.0	2.2	92.9	92.9	91.0	0.84	0.80	0.72	2.5	20	15
250M	37	984	64	6.5	1.8	1.6	2.8	93.3	93.3	91.2	0.86	0.82	0.76	5.1	50	30
280S	45	985	78	6.5	2.6	2.4	3.1	93.7	93.7	91.5	0.86	0.82	0.76	8.0	60	35
280M	55	985	95	6.0	2.3	2.1	2.8	94.1	94.1	91.0	0.86	0.82	0.76	9.3	60	35
315S	75	986	128	7.0	2.5	2.3	3.0	94.6	94.6	89.7	0.86	0.82	0.74	15.5	60	35
315M	90	988	153	7.0	2.5	2.3	3.0	94.9	94.9	90.7	0.86	0.82	0.74	17.5	60	35
315M	110	988	187	7.0	2.5	2.3	3.0	95.1	95.1	91.2	0.86	0.82	0.74	20.0	60	35
315M	125	987	212	7.0	2.5	2.3	3.0	95.2	95.2	91.2	0.86	0.82	0.74	22.0	60	35
315L	132	988	224	7.0	2.5	2.3	3.0	95.4	95.4	91.2	0.86	0.82	0.74	23.5	60	35

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

PREPARED : AAH	CHECKED : RNV	APPROVED : RNV	KHD- 50-112
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