

# TECHNICAL - DATA I

FRAME NO:	ESM60	ESM80	ESM80	ESM80	ESM80	ESM125	ESM125	ESM125	ESM125	ESM125	ESM125	ESM145	ESM145	ESM145	ESM145	ESM190	ESM190	ESM190	ESM190	ESM190
	A	A	B	C	D	A	B	C	D	E	F	A	B	C	D	A	B	C	D	E
<b>RATED POWER (KW)</b>	0.4	0.4	0.6	0.75	1.0	0.75	1	1.5	2.2	3	4	3	4	5.6	7.5	4.5	6	7.5	11	15
<b>RATED TORQUE (NM)</b>	1.274	1.9	2.64	3.53	4.8	3.6	4.8	7.2	10.5	14.3	19	14.3	19	26.7	35.8	29	39	48	71.5	95
<b>PEAK TORQUE (NM)</b>	3.822	5.7	8.52	10.6	14.4	10.8	14.4	21.6	31.5	42.9	57	42.9	57	80.1	103.2	87	117	144	214.5	285
<b>RATED SPEED (RPM)</b>	3000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1500	1500	1500	1500	1500
<b>MAX SPEED (RPM)</b>	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
<b>RATED CURRENT (A)</b>	2.4	2.5	3.2	4	5.2	3.2	5	7.2	10.6	14.5	19.5	15	19.5	25.6	34.4	29.5	35	48	66	80
<b>PEAK CURRENT (A)</b>	7.2	7.5	9	12	15.6	9.6	15	21.6	31.5	43.5	58.5	45	58.5	80.1	107.4	88.2	106	144	198	240
<b>Kt (NM/A)</b>	0.53	0.76	0.89	0.88	0.92	1.13	0.96	1	0.99	0.986	0.974	0.953	0.97	1.04	1.04	0.98	1.11	1.0	1.08	1.19
<b>Ke Vrms /1000RPM</b>	32	45	44	48	48	60	60	60	60	60	60	60	60	60	60	62	61	60	60	57
<b>WINDING RESISTANT (Ω)</b>	5.15	5.4	3.58	2.5	1.8	6.6	3.5	2	1.2	0.9	0.73	0.5	0.3	0.26	0.2	0.2	0.13	0.5	0.09	0.1
<b>WINDING INDUCTANCE (mH)</b>	17.5	10	7.6	5.8	4.3	18.5	11.2	6.8	4.8	4.3	2.6	2.9	2.1	1.4	1.1	0.96	0.66	0.1	0.46	0.58
<b>POLE</b>	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<b>ROTOR INERTIA J (Kg-cm<sup>2</sup>)</b>	0.4	2.44	3.34	4.2	5.1	6.66	10.1	14.4	20.35	27.25	35.9	51.06	66.48	91.15	120.45	87	102.7	139.8	177.4	214.5
<b>INSULATION</b>	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>COOLING</b>	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 0041	IC 416	IC 416	IC 416	IC 416	IC 416
<b>PROTECTION</b>	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
<b>FEEDBACK SYSTEM ENCODER</b>	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR	2500 PPR
<b>OVER TEMPERATURE PROTECTION</b>	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW	TH-SW
<b>WEIGHT (Kg)</b>	2	3	4	5	6	5.3	6.36	8.7	12	15	19	17.7	22	28.5	36.7	28	33	42	50	65