

# Data sheet

Sheet No.: 5.102 Rev. B

Date: February 2012

## ELECTRIC ACTUATOR - TECHNICAL DATA

		ELS-18	ELS-25	EL-35	EL-55	EL-100	EL-150	EL-200	EL-350	EL-500	EL-800	EL-1200	EL-1600	EL-2500
Torque (Nm)	<b>break</b>	18	25	35	55	100	150	200	350	500	800	1200	1600	2500
	<b>run</b>	14	20	12.2	20	35	53	70	123	175	280	420	560	875
Torque (in.lb)	<b>break</b>	160	221	310	487	885	1.328	1.77	3.098	4.425	7.081	10.621	14.16	22.125
	<b>run</b>	124	177	108	177	310	465	620	1.084	1.548	2.478	3.717	4.956	7.744
Op. Time (S)	<b>50 Hz</b>	6.5	9.5	6	6	7.5	9	13.5	22	25.5	25.5	25.5	25.5	28
	<b>60 Hz</b>	5.5	7.5	5	5	6	7.5	11.5	18	21.5	21.5	21.5	21.5	22.5
	<b>24VDC</b>	-	-	-	5	6.5	8	12	20	23	-	-	-	-
Current (A) 120/1/60	<b>break</b>	0.55	0.6	1.1	-	2.9	2.9	2.9	2.9	2.9	4.5	14	14	38
	<b>run</b>	0.45	0.5	0.6	-	2.1	2.1	2.1	2.1	2.1	2.8	5.8	5.8	10.5
220/1/50	<b>break</b>	0.1	0.3	-	0.6	1.7	1.7	1.7	1.7	1.7	2.3	6	6	17
	<b>run</b>	0.1	0.27	-	0.5	1.1	1.1	1.1	1.1	1.1	1.8	2.5	2.5	5.8
380/3/50	<b>break</b>	-	-	-	0.4	0.7	0.7	0.7	0.7	0.7	0.9	2.8	2.8	5.5
	<b>run</b>	-	-	-	0.2	0.4	0.4	0.4	0.4	0.4	0.54	0.9	0.9	1.2
460/3/60	<b>break</b>	-	-	-	0.37	0.63	0.63	0.63	0.63	0.63	0.87	1.1	1.1	2
	<b>run</b>	-	-	-	0.18	0.45	0.45	0.45	0.45	0.45	0.57	0.72	0.72	1.6
24 VDC	<b>break</b>	0.8	0.51	-	5	8	8	8	8	8	-	-	-	-
	<b>run</b>	0.15	0.1	-	1.9	4.9	4.9	4.9	4.9	4.9	-	-	-	-
Power consump. (W)	<b>120/1/60</b>	45	25	100	-	225	225	225	225	225	315	535	535	720
	<b>220/1/50</b>	40	65	-	72	200	200	200	200	200	305	450	450	792
	<b>380/3/50</b>	-	-	-	80	145	145	145	145	145	165	220	220	560
	<b>460/3/60</b>	-	-	-	77	180	180	180	180	180	200	266	266	600
	<b>24VDC</b>	4.8	2.4	-	45	118	118	118	118	118	-	-	-	-
Power factor (cos Phi)	<b>120/1/60</b>	-	-	0.87	0.87	0.98	0.98	0.98	0.98	0.98	0.93	0.83	0.83	0.74
	<b>220/1/50</b>	0.82	0.82	-	0.91	0.82	0.82	0.82	0.82	0.82	0.77	0.92	0.92	0.5
	<b>380/3/50</b>	-	-	-	0.54	0.51	0.51	0.51	0.51	0.51	0.47	0.55	0.55	0.67
	<b>460/3/60</b>	-	-	-	0.54	0.5	0.5	0.5	0.5	0.5	0.44	0.53	0.53	0.6
Motor speed (RPM)	<b>50 Hz</b>	1878	1620	1450	1450	1425	1425	1425	1425	1425	1450	1450	1450	1450
	<b>60 Hz</b>	2328	2040	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
	<b>24VDC/AC</b>	3230	4210	-	1600	1600	1600	1600	1600	1600	-	-	-	-
Overall gear ratio		849/1	1070/1	1250/1	1250/1	700/1	840/1	1316/1	2106/1	2480/1	2480/1	3100/1	3100/1	2600/1
Capacitor (µF/V)	<b>120/1/60</b>	6.8/250	6.8/250	25/250	25/250	36/250	36/250	36/250	36/250	36/250	50/250	100/250	100/250	400/250
	<b>220/1/50</b>	1.5/400	2/400	-	8/450	10/450	10/450	10/450	10/450	10/450	16/450	30/450	30/450	100/450
Weight (Kg)	<b>W-proof</b>	2.2	2.8	6	6	11	11	16.5	17	25.5	26.4	37	37	75
	<b>Ex-proof</b>	-	-	8	8	13	13	18.5	20	28.5	30	37	37	75
Weight (Lbs)	<b>W-proof</b>	4.3	5.5	13	13	24	24	36	37.5	56	57	81.5	81.5	165
	<b>Ex-proof</b>	-	-	17.5	17.5	28.5	28.5	40.5	44	62.5	66	81.5	81.5	165



www.El-O-matic.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice.

Updated data sheets can be obtained from our website [www.El-O-matic.com](http://www.El-O-matic.com) or from your nearest Valve Automation Center **USA: +1 813 319 0266 Europe: +31 74 256 10 10 Asia-Pacific: +65 6501 4600**



**EMERSON**  
Process Management