

Data sheet

Sheet No.: TP 1.01 Rev. 0

Date: October 2023

TorqPlus

Performance Data

Open/Close and Modulating Configurations

Available Torques, Operating Speeds, Motor Duty Cycles, Motor Voltages and Locked Rotor Amp Draws.

Torque Expression: Inch-Pounds (in-lb) and Newton Meters (Nm).

Speed Expression: Seconds per 90° output rotation.

Model Series	Rated Motor Current (FLA/LRA)						Torque		Operating Speed 90° (seconds)	Duty Cycle	
	Single Phase, 50/60 Hz				Three Phase, 60 Hz						
	115 V AC	220 V AC	12 V DC	24 V DC	230 V AC	460 V AC	in-lb	Nm		AC	DC
EM-1XX	0.94/1.30	-	-	-	-	-	100	11	2	30%	--
	0.60/0.70	-	-	-	-	-	250	28	10	30%	--
	0.60/0.70	-	-	-	-	-	350	39	13	30%	--
EM-300	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	150	17	4	30%	100%
	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	300	34	10	30%	100%
	0.70/0.72	0.32/0.33	10.1/19.2	4.6/8.8	-	-	400	45	15	30%	100%
	0.70/0.72	0.32/0.33	10.1/19.2	4.6/8.8	-	-	600	68	30	30%	100%
EM-310	0.57/0.66	-	-	-	-	-	150	17	4	75%	--
	0.57/0.66	-	-	-	-	-	300	34	10	75%	--
	0.57/0.66	-	-	-	-	-	400	45	15	75%	--
	0.57/0.66	-	-	-	-	-	600	68	30	75%	--
EM-320	0.57/0.66	-	-	-	-	-	150	17	4	100%	--
	0.57/0.66	-	-	-	-	-	300	34	10	100%	--
	0.57/0.66	-	-	-	-	-	400	45	15	100%	--
	0.57/0.66	-	-	-	-	-	600	68	30	100%	--
EM-500	0.53/0.85	0.30/0.44	4.9/8.4	4.1/7.3	-	-	350	39	5	100%	100%
	0.53/0.85	0.30/0.44	4.9/8.4	4.1/7.3	-	-	700	79	10	100%	100%
	0.53/0.85	0.30/0.44	4.9/8.4	4.1/7.3	-	-	1,000	113	15	100%	100%
	0.53/0.850	0.30/0.440	4.9/8.4	4.1/7.3	-	-	1,600	181	30	100%	100%
EM-510	0.86/1.73	0.47/0.88	-	8.85/18.4	-	-	325	36	2	100%	100%
	0.86/1.73	0.47/0.88	-	8.85/18.4	-	-	600	68	5	100%	100%
	0.86/1.73	0.47/0.88	-	8.85/18.4	-	-	1,000	113	7	100%	100%

NOTE:

FLA = Full Load Amperage; LRA = Locked Rotor Amperage

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Data sheet

Sheet No.: TP 1.02 Rev. 0

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TorqPlus

Model Series	Rated Motor Current (FLA/LRA)						Torque		Operating Speed 90° (seconds)	Duty Cycle	
	Single Phase, 50/60 Hz				Three Phase, 60 Hz						
	115 V AC	220 V AC	12 V DC	24 V DC	230 V AC	460 V AC	(in-lb)	(Nm)		AC	DC
EM-520	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	180	20	5	30%	100%
	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	450	51	10	30%	100%
	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	600	68	15	30%	100%
	0.72/0.73	0.37/0.37	10.1/19.2	4.6/8.8	-	-	1,000	113	30	30%	100%
EM-810	1.51/3.31	0.72/1.38	-	-	CF	CF	2,000	226	12	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	2,500	282	18	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	3,500	395	30	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	4,000	452	60	100%	-
EM-820	1.51/3.31	0.72/1.38	-	-	CF	CF	3,000	339	12	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	4,000	452	18	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	6,000	678	30	100%	-
	1.51/3.31	0.72/1.38	-	-	CF	CF	7,000	791	60	100%	-
EM-830	2.33/6.13	1.08/2.89	-	-	-	-	5,000	565	12	100%	-
	2.33/6.13	1.08/2.89	-	-	-	-	7,000	791	18	100%	-
	2.33/6.13	1.08/2.89	-	-	-	-	10,000	1130	30	100%	-
	2.33/6.13	1.08/2.89	-	-	-	-	10,000	1130	60	100%	-
EM-840	2.33/6.13	1.08/2.89	-	-	-	-	15,000	1695	48	100%	-
	2.33/6.13	1.08/2.89	-	-	-	-	20,000	2260	72	100%	-
SR5-10	0.53/0.85	0.30/0.44	-	-	-	-	300	34	10	100%	-
SR5-15	0.53/0.85	0.30/0.44	-	-	-	-	400	45	15	100%	-
SR5-30	0.53/0.85	0.30/0.44	-	-	-	-	600	68	30	100%	-
SR5-90	0.53/0.85	0.30/0.44	-	-	-	-	1,400	181	90	100%	-

NOTE:

FLA = Full Load Amperage; LRA = Locked Rotor Amperage

The above actuators may be provided with the following controls and options:

- Potentiometer 1 kΩ — 1/2%.
- Servo Motor Controller (not available for model series EM-1XX). It is offered in 115 V AC.
Note: This optional controller enables modular operation; requires the use of a control signal (either 0 to 12 V DC or 4 to 20 mA).
- Heater and Thermostat (optional for model series EM-1XX). Standard for all other model series.
- Electro-mechanical brake (standard for model series EM-1XX). Optional for all other model series.
- Control Relays/Auxiliary contacts rated 120 V AC, 15 A.
- Operating speed is nominal at rated torques. Final operating speed may vary depending on actual service.
- CF – Consult Factory.

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