

Electric Actuators

DUNGS®

DUNGS actuators are designed to operate dampers, butterfly valves and similar devices. Models are available for a variety of torques from 16 in. lb. to 450 in. lb. and control methods including two-position, position proportioning with slide-wire feedback, potentiometer proportioning and current-to-position proportioning.

All models are UL listed and CSA approved.



EMA-4..

EMA-...

- Two position, spring return.

90° & 180° Clockwise rotation when power is applied, actuator returns counter-clockwise to 0° on power interruption.



EMP-4..-1

EMP-...

- -1: Position Proportioning 100 Ohm Slidewire Feedback.

90° (180° optional with 180° slidewire kit) Rotation when power is applied.



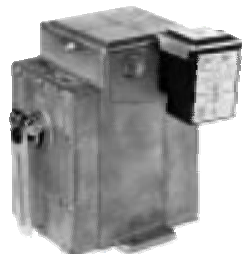
EMP-4..-2

- -2: Potentiometer Slaved Proportioning, 100-1000 Ohm, Slidewire Feedback

90° (180° optional with 180° slidewire kit) Rotation when power is applied.

- -5: Proportioning, 4-20 mA Input; NEMA Type 4

90° (180° optional with 180° slidewire kit) Clockwise rotation (reversible) when power is applied.



EMP-4..-5

- -9...: Position Proportioning 100 Ohm Slidewire Feedback.

90° (180° optional with 180° slidewire kit) Rotation when power is applied. Optional 4-20 mA Input with CP 8391-703 (part # 43118-4)



EMP-9...

Model	Part Number	Stroke	Timing (seconds)	Torque	Electrical	Includes		Ambient Temp (F)	
					Amps	Aux. Switch (3)	Crank Arm	Min.	Max.
Two Position									
EMA-405-0-0-1	43117	180	20	16	0.40	No	Yes	-40	+135
EMA-405-1-0-1	43117-1	90	10	16	0.40	No	Yes	-40	+135
EMA-418	43119	180	20	60	0.90	No	Yes	-40	+135
EMA-418-2	43119-1	90	10	60	0.90	No	Yes	-40	+135
Position proportioning with 100 Ohm slidewire feedback									
EMP-423-1 (1)	43158	90	12	60	0.65	Yes	Yes	-40	+135
EMP-424-1 (1)	43032	90	12 (2)	60	0.65	Yes	Yes	-40	+135
EMP-453-1 (1)	43033	90	40	220	0.65	Yes	Yes	-40	+135
EMP-454-1 (1)	43087	90	40 (2)	220	0.65	Yes	Yes	-40	+135
EMP-9430	43211	90	20	550	1.80	Yes	No (4)	-40	+130
EMP-9630	43215	90	33	1100	1.80	Yes	No (4)	-40	+130
EMP-9830	43201	90	57	1300	1.80	Yes	No (4)	-40	+130
Potentiometer slaved proportioning with 100-1000 Ohm slidewire feedback									
EMP-423-2	43158-2	90	12	60	0.65	Yes	Yes	+30	+135
EMP-424-2	43032-2	90	12 (2)	60	0.65	Yes	Yes	+30	+135
EMP-453-2	43033-2	90	40	220	0.65	Yes	Yes	+30	+135
EMP-454-2	43087-2	90	40 (2)	220	0.65	Yes	Yes	+30	+135
Proportioning, 4-20 mA input									
EMP-423-5	43158-6	90	12	60	0.65	Yes	Yes	-40	+135
EMP-424-5	43032-6	90	12 (2)	60	0.65	Yes	Yes	-40	+135
EMP-453-5	43033-6	90	40	220	0.65	Yes	Yes	-40	+135
EMP-454-5	43087-6	90	40 (2)	220	0.65	Yes	Yes	-40	+135

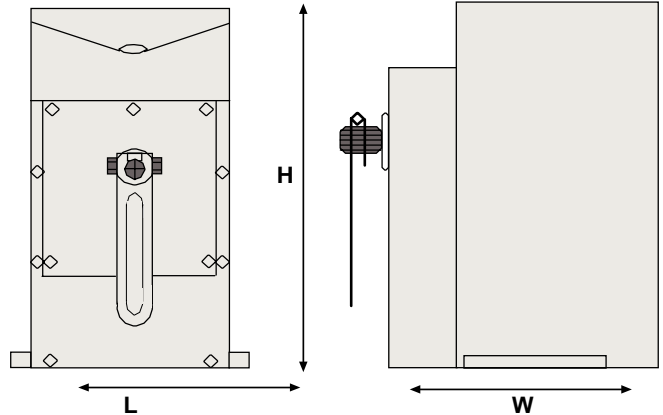
(1) Can be used as two position if internal slidewire is not connected.

(2) Timing can be increased (slower rotation) up to approximately ten times this rating by turning a slotted adjustment screw located on the outside of the case.

(3) SPDT switch may be set to operate at any point in the stroke (Ratings 120 Vac, 5.8A inductive, 12A non-inductive.)

(4) Requires 3/4 crank arm (Part# 43202)

Model	Dimension in Inches				Shipping Weight
	L	W	H	Shaft Dia.	
EMA-405-0-0-1 EMA-405-1-0-1 EMA-418 EMA-418-2	5-3/8	6-9/16	5-3/4	1/2	8 .lbs
EMP-423-1 EMP-424-1 EMP-453-1 EMP-454-1	5-3/8	5-3/8	7	1/2	8 .lbs
EMP-423-2 EMP-424-2 EMP-453-2 EMP-454-2	6-5/8	5-3/8	7	1/2	11 .lbs
EMP-423-5 EMP-424-5 EMP-453-5 EMP-454-5	7-1/2	5-3/8	7	1/2	12 .lbs
EMP-9430 EMP-9630 EMP-9830	9-1/2	10-1/2	9-9/16	3/4	30 .lbs



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