

The "EB" Series is a compact powerful solution for critical applications. With its own built in power supply the "EB" Series couples the reliability of our electric actuators with the added security of a fail-safe battery backup system. Equipped with an internal battery, this unit is field adjustable to fail closed, fail open, or continue standard operations. The "EB" Series leaves you in control during sudden loss of utility power or control signal. The "EB" Series is available in a NEMA4 version (standard) or an optional NEMA 7 version.



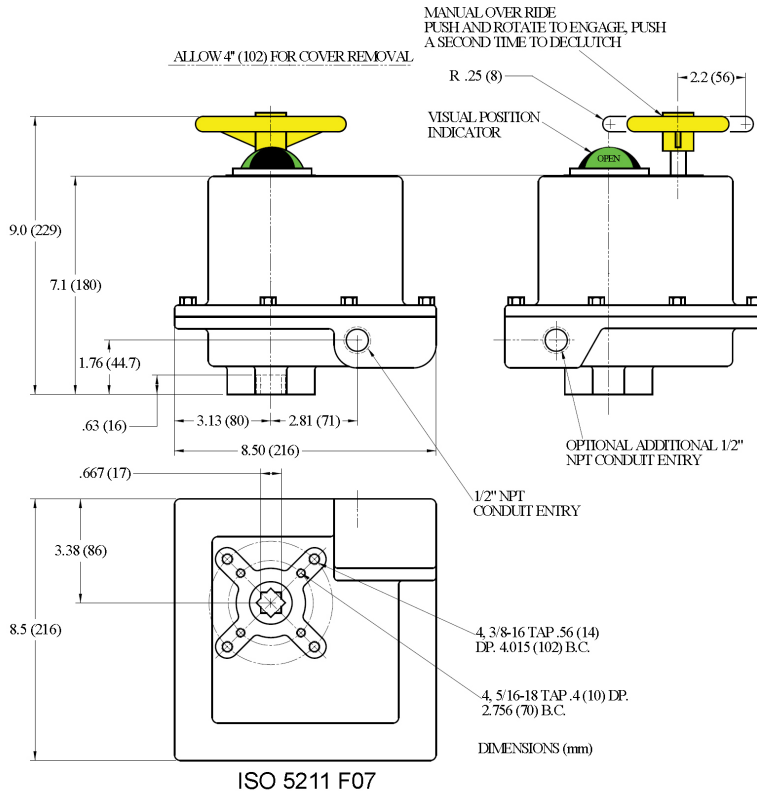
"EB" SERIES SPECIFICATIONS

"EB" SERIES MODEL	TORQUE		CYCLE TIME
	in-lbs	Nm	
EB-100	100	11.3	6 SEC. / 90°
EB-200	200	22.6	6 SEC. / 90°
EB-300	300	33.9	6 SEC. / 90°
EB-400	400	45.2	10 SEC. / 90°
EB-675	675	76.3	15 SEC. / 90°
EB-1000	1000	113.0	20 SEC. / 90°
EB-1500	1500	169.5	30 SEC. / 90°

"EB" SERIES DESIGN FEATURES

DUTY CYCLE: 75% (Standard)	INSTALLATION: Universal
POSITION INDICATOR: Visual Indicator Wired for light indication	TEMPERATURE RANGE: -40° F to 150° F Heater & Thermostat required 0° F & below
SWITCHES: SPDT snap action 15 Amps @ 250 VAC	ENCLOSURE: NEMA 4 (Standard) NEMA 7 (Optional)
LUBRICATION: Permanent	OPTIONAL OVERRIDE: Manual, Declutchable

FIELD WIRING THE "EB" SERIES

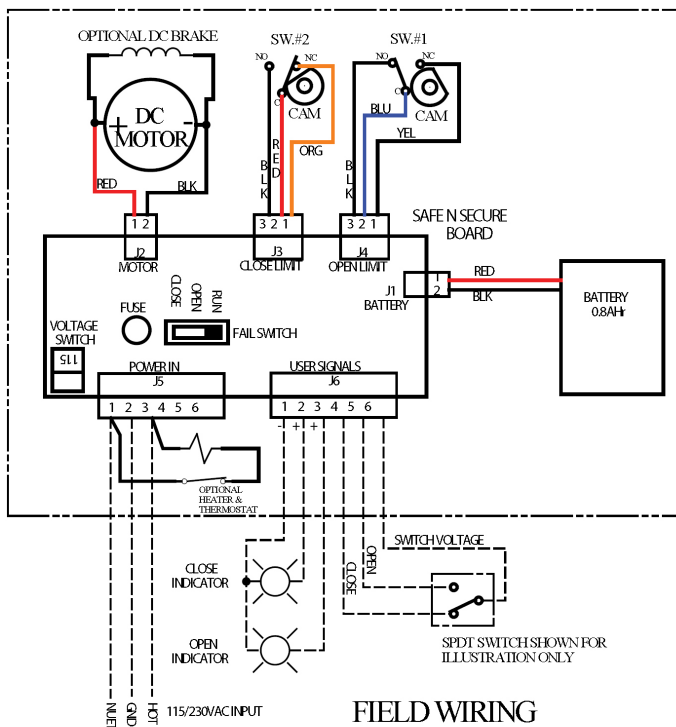


MOUNTING PAD
ISO 5211 F03 Star drive
ISO 5211 F04 Star drive
ISO 5211 F07 Star drive
ISO 5211 F10 Star drive

MOTOR SPECIFICATIONS
Brushless 12 VDC (all voltages)
with thermal overload protection

"EB" SERIES MODEL	12 VDC	
	FL	LR
EB-100	1.34	2.38
EB-200	1.34	2.38
EB-300	1.34	2.38
EB-400	1.65	2.38
EB-675	1.50	2.38
EB-1000	2.20	2.38
EB-1500	2.30	2.38

FL = Full Load, LR = Lock Rotor



SW.#1 SWITCH #1 OPEN SWITCH
SW.#2 SWITCH #2 CLOSE SWITCH

ACTUATOR SHOWN IN OPEN POSITION

NOTES:

- CONTROL CAN OPERATE WITH 115 or 230 VAC INPUT. VOLTAGE INPUT SWITCH NEEDS TO BE MOVED TO POSITION THAT MATCHES THE POWER INPUT VOLTAGE. INPUT POWER SOURCE TO BE @ 0.5A MINIMUM.
- FUSE IS PICO STYLE, 250mA, 250VAC.
- UNIT IS SHIPPED WITHOUT THE BATTERY PLUGGED IN. AFTER INSTALLING UNIT AND CONNECTING INCOMING POWER, PLUG BATTERY CONNECTOR INTO THE SAFE N SECURE BOARD, J1.
- CAMS FOR LIMIT SWITCHES ARE PRESET AT THE FACTORY. TO INCREASE OR DECREASE VALVE MOTION, THE CAMS CAN BE ADJUSTED SLIGHTLY.
- THE FAIL SWITCH NEEDS TO BE SET IN THE "RUN", "OPEN" OR "CLOSE" POSITION PRIOR TO INSTALLING THE COVER. WHEN INCOMING POWER FAILS:
"RUN" = ACTUATOR WILL CONTINUE TO RUN WITH USER COMMAND SIGNAL UNTIL BATTERY DIES.
"OPEN" = ACTUATOR WILL MOVE TO THE OPEN POSITION.
"CLOSE" = ACTUATOR WILL MOVE TO THE CLOSE POSITION.
- INDICATOR LAMPS NEED TO BE +12VDC ONLY. NEGATIVE OF LAMP IS CONNECTED TO PIN 1 OF J6.
- COMMAND SIGNAL USES A SINGLE POLE, DOUBLE THROW CONTACT (RELAY OR SWITCH) RATED FOR 3AMPS OR MORE.
- WHEN INCOMING POWER IS PRESENT, BLUE LED WILL BE LIT AND ACTUATOR RUNS OFF OF INCOMING POWER. WHEN INCOMING POWER FAILS, BLUE LED WILL TURN OFF AND THE GREEN BATTERY LED WILL LIGHT - ACTUATOR WILL NOW RUN OFF OF BATTERY POWER UNTIL INCOMING POWER IS RESTORED.
- RED LED WILL LIGHT WHEN BATTERY VOLTAGE GETS TOO LOW.