

EJM Series Enclosed Manual Motor Controllers

EJM30BSx, EJM60Bxx, EJM80BPx

Document no. 34EJM30-80-A

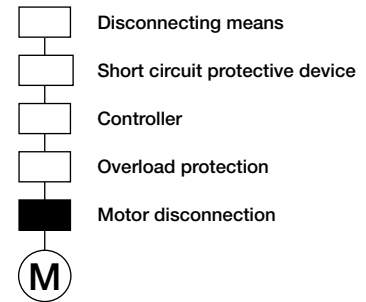
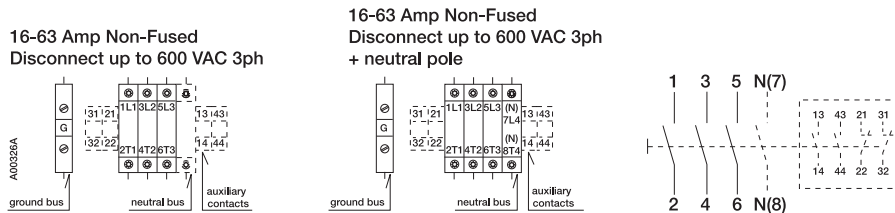
Installation instructions

Applications

The EJM series of enclosed manual motor controllers are rotary operated, 3 or 4 pole, up to 600V HP rated switches, housed in thermoplastic enclosures suitable for humid and corrosive environments. Rated NEMA 4X may be used for both indoor and outdoor applications. Products are properly installed on the load side of a branch circuit protective device and are suitable for use as motor disconnects.

WARNING

To avoid hazard of electric shock, turn off and lock out all power sources before installing or performing maintenance on this equipment.



Ratings

P/N	AMPS	Enclosure size	VAC	200V	208V	240V	480V	600V
EJM30BSx	40A	Size 1	HP	10	10	10	20	25
EJM60Bxx	60A	Size 2	HP	15	15	15	30	30
EJM80BPx	80A	Size 3	HP	20	20	20	40	40

Wire connections

EJM30BSx:

Switch wire range: #18-8 AWG, 60-75 °C, Cu only, solid or stranded
Torque: 7 lb.in, use Pozi-drive #2 or flat blade screwdriver

EJM60-80BSx:

Switch wire range: #14-4 AWG, 60-75 °C, Cu only, solid or stranded
Torque: 18 lb.in, use Pozi-drive #2 or flat blade screwdriver

Auxiliary contacts, 10A, 600V, A600-R300

Switch wire range: #18-14 AWG, 60-75 °C, Cu only, solid or stranded
Torque: 7 lb.in, use Pozi-drive #2 or flat blade screwdriver

Optional Power Poles

EJM30BSx:

4P40

4th pole

NP40

Solid neutral pole

EJM60-80Sx:

4P80

4th pole

NP80

Solid neutral pole

Optional Auxiliary contacts

OA1G10 (1 N.O.) Install on right side of switch. Max. 2 pcs on 3-pole switch, 1 pcs on 4-pole switch (EJM30BSx).

OA1G01 (1 N.C.) Install on left side of switch. Max. 2 pcs.

OA2G11 (1 N.O. + 1 N.C.) Install on right side of switch.



Installation

Operate switch to the OFF position and loosen the cover screws, remove the cover.

EJM30BSx

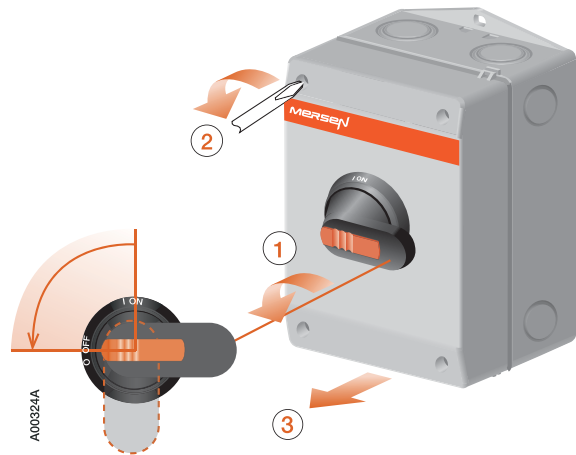
Two concentric 1/2" & 3/4" K.O.s are provided in the top and bottom of the enclosure (size 1).

EJM60Bxx

Two concentric 3/4" & 1" K.O.s are provided in the top and bottom of the enclosure (size 2).

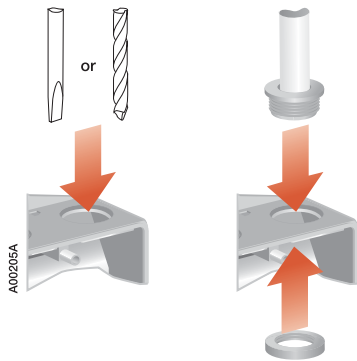
EJM80BPx

Two concentric 1" & 1 1/4" K.O.s are provided in the top and bottom of the enclosure (size 3).



An internal metallic plate bonds together all conduit hubs installed, without the need for additional bonding jumpers.

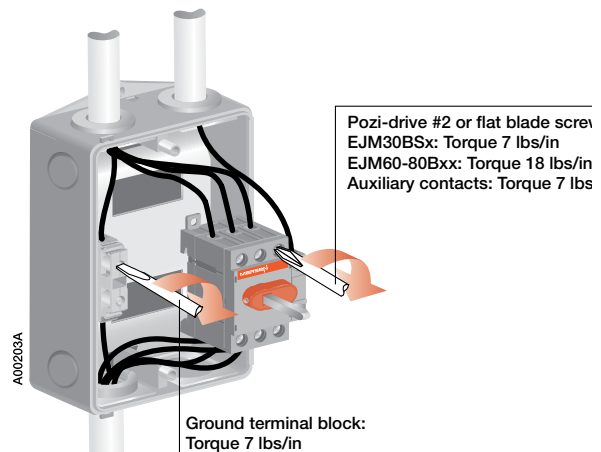
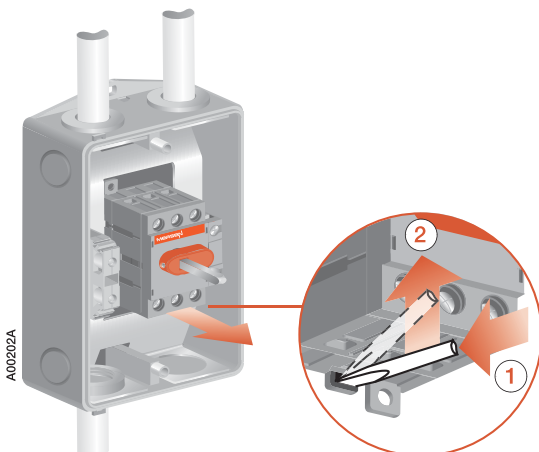
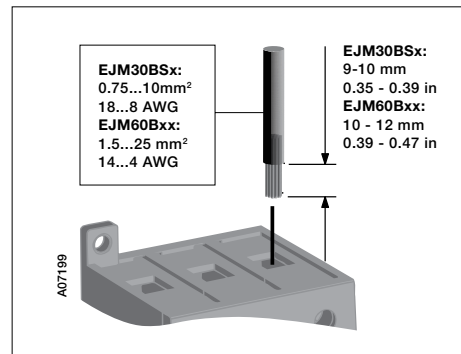
- Drill proper holes for conduit hubs or use K.O.s
- Install conduit hubs
- Install enclosure size 1 and 2 using (2) #8 or M4 screws
- Install enclosure size 3 using (4) 1/4" or M6 screws

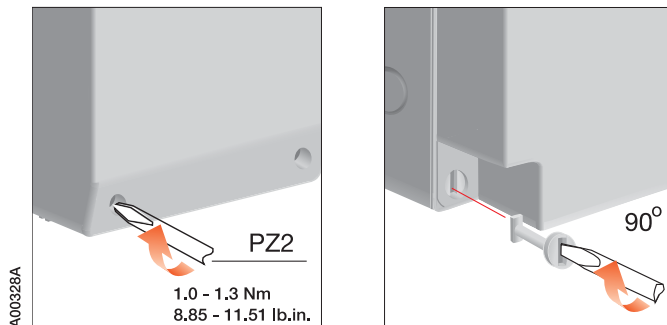
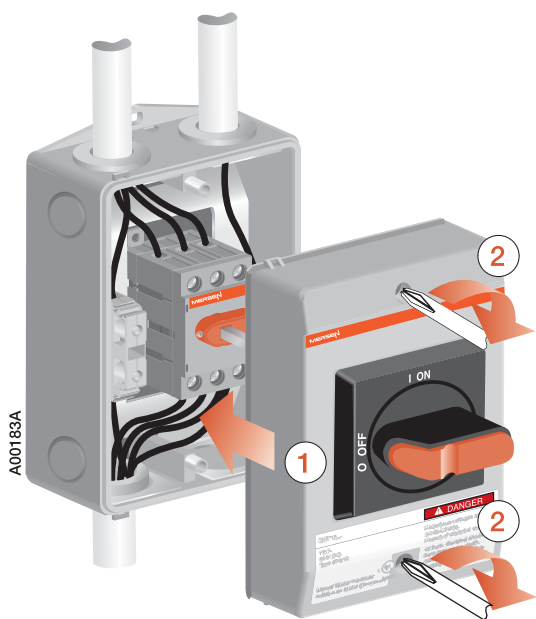


Wiring

For ease of wiring, it is recommended to remove the switch from the enclosure before pulling the wire. A small flat blade screwdriver may be used to release the DIN rail clip at the bottom of the switch, allowing it to be removed.

Connect power wires to switch terminal and attach ground wire to the ground terminal block inside the enclosure. Reinstall the switch in the enclosure. Reference the National Electric Code and all local codes for appropriate wire size and grounding requirements.

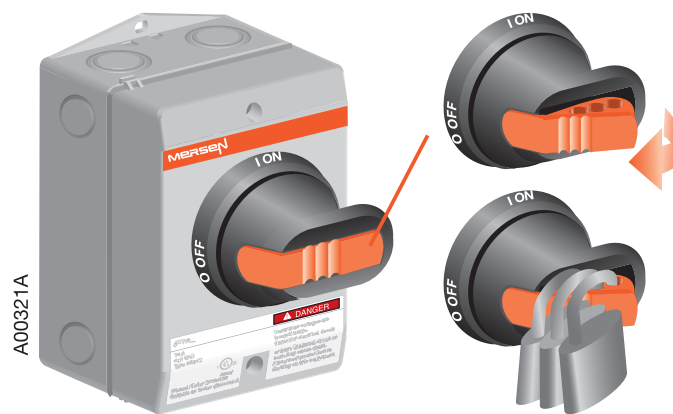
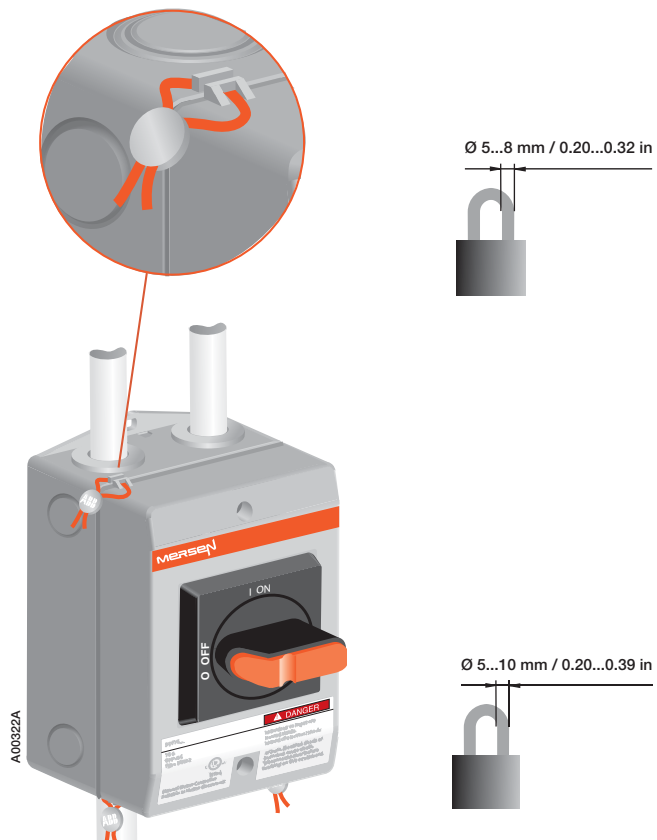




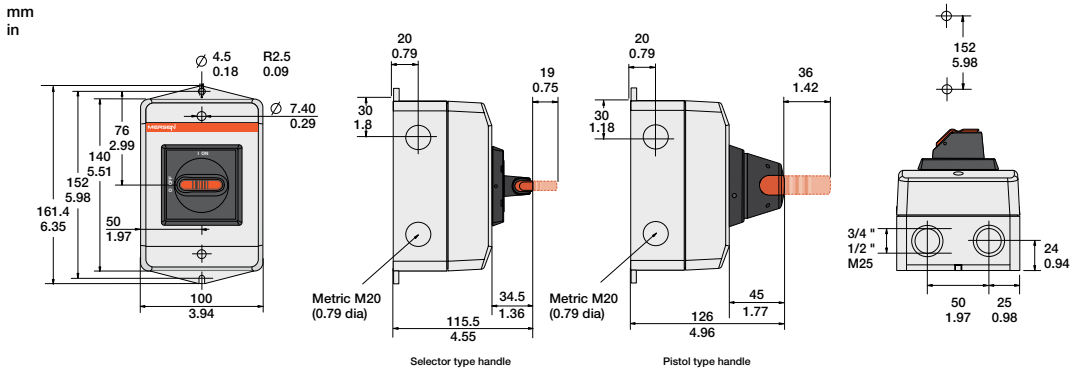
Reinstall enclosure cover, note that both the switch and the operating handle on the cover must be in the OFF-position. Tighten the cover screws.

Operating handle

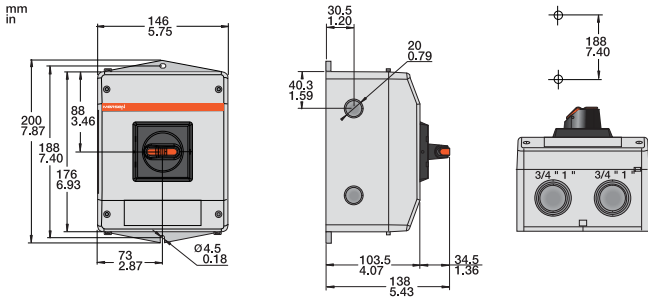
Operating handle may be padlocked in the OFF-position with up to three padlocks. When locked, the enclosure cover is interlocked and can not be removed. All padlocks must be opened to gain entry to the enclosure.



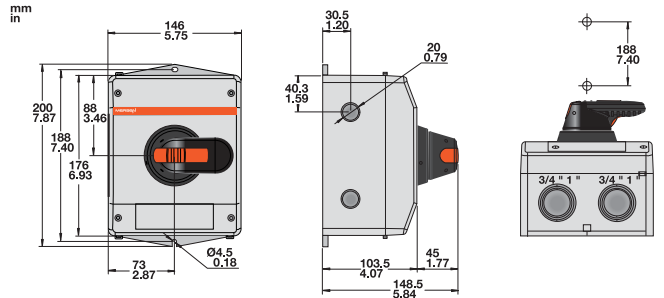
EJM30BSx (enclosure size 1)



EJM60BSx (enclosure size 2)



EJM60BPx (enclosure size 2)



EJM80BPx (enclosure size 3)

