

# ED900 SINGLE DOOR: ES96 ELECTRIC STRIKE 24VDC (FAIL SECURE) M9080 MORTISE LOCKSET x CARD READER x HARD WIRED ACTUATORS

**OPERATION:** M9080 Mortise Lockset is locked with key, exterior WS-1 Wall Actuator is disabled. Entrance by presenting valid card at Card Reader which energizes ES96 Electric Strike to unlock and enables exterior WS-1 Wall Actuator. Pedestrian then has the option of power assisted entrance by depressing exterior WS-1 Wall Actuator which triggers the ED900 Low Energy Operator to open the door or manual entrance by lever of M9080 Mortise Lockset. Authorized entrance also possible by key retracting latch bolt of M9080 Mortise Lockset by-passing ES96 Electric Strike.

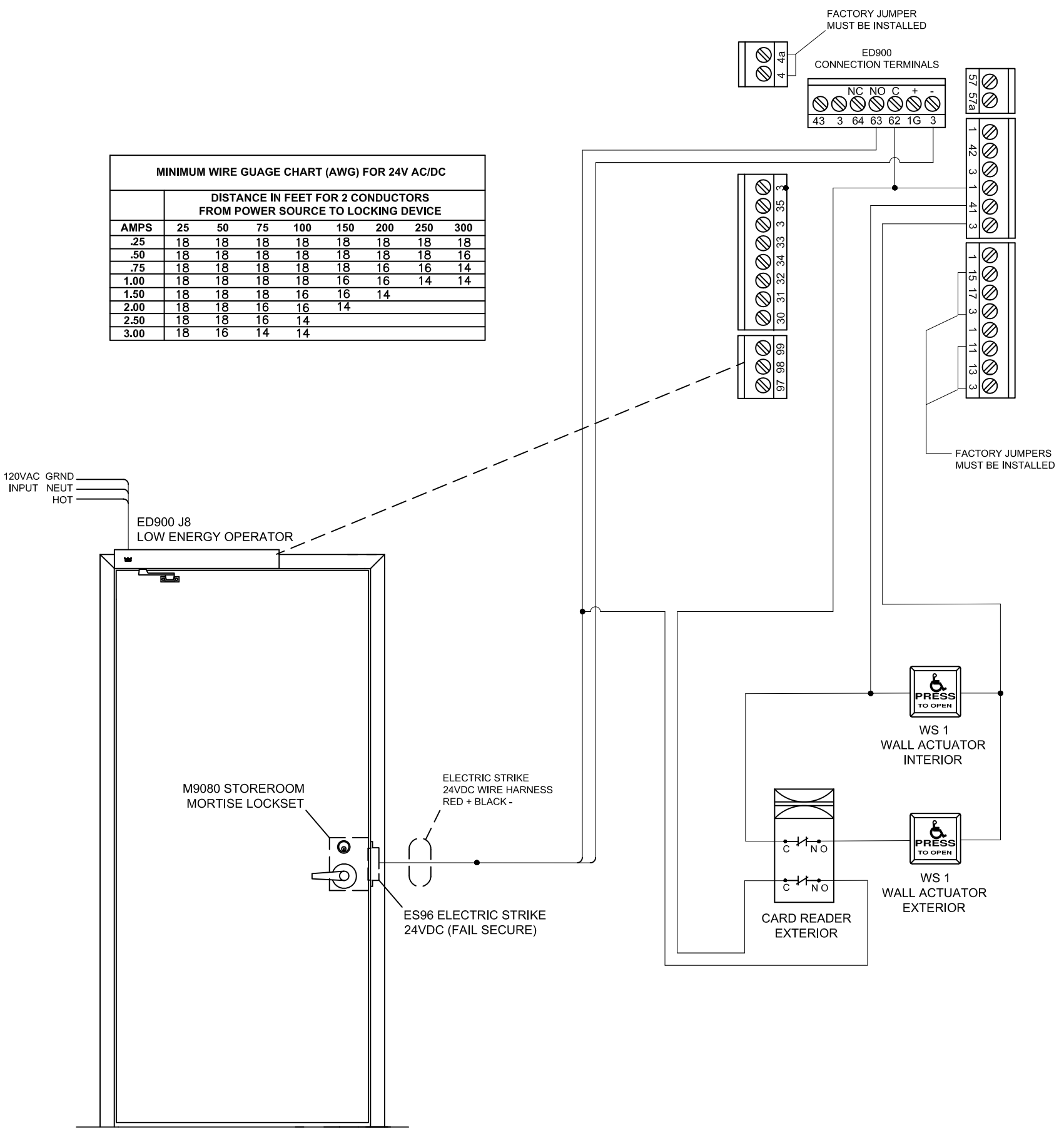
Power assisted egress by depressing interior WS-1 Wall Actuator which signals the ED900 Low Energy Operator to energize ES84 Electric Strike to unlock. After delay time (field set on ED900) the ED900 Low Energy Operator opens the door. Manual egress by depressing lever of M9080 Mortise Lockset.

**LOSS OF POWER CONDITION:** ED900 Low Energy Operator is disabled allowing door to close and ES96 Electric Strike is de-energized and locked (FAIL SECURE) securing door when closed. Authorized entrance by key retracting latch bolt of M9080 Mortise Lockset by-passing Electric Strike. Egress by depressing lever of M9080 Mortise Lockset.

**NOTES:** 1) All wiring and interface between EAC components and ED900 to be determined and supplied by others.  
2) All settings for ED900 Low Energy Operator to be determined and set in field by others.

**PARTS LIST:**

- |   |                                    |
|---|------------------------------------|
| 1 EA. - ED900 J8 Low Energy Operator, 115 V AC +/- 10% 50/60 Hz, 6.6 A max. (DORMA) | 2 EA. - WS-1 Wall Actuator (DORMA) |
| 1 EA. - ES96 Electric Strike .19 A @ 24VDC (FAIL SECURE) (DORMA)                    | 1 EA. - Card Reader (BY OTHERS)    |
| 1 EA. - M9080 Storeroom Mortise Lockset (DORMA)                                     |                                    |



REV A	6-6-16	BLW	UPDATED ED900 RELAY AND ES96 POWER WIRING
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NOTE: This wiring diagram is provided to assist in interfacing DORMA USA products into the system described above. Compatibility and functionality of components not supplied by DORMA are not guaranteed. Component failure resulting from improper wiring is not covered by warranty. Refer to individual device product information sheets and installation instructions for wire gauge sizes and additional information.

**DORMA USA**  
REAMSTOWN, PENNSYLVANIA 17567  
DIAGRAM No. 900-WD018

