WIRING DETAIL FOR THE 91105-100 (3 PHASE) MAT MOVER

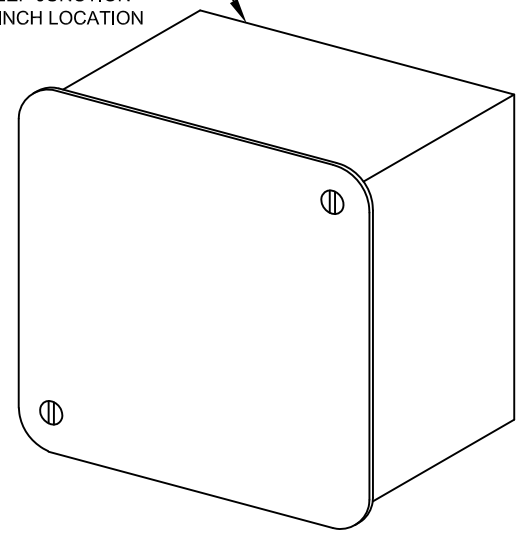
ELECTRIC WINCH FIELD WIRING DETAILS & REQUIREMENTS

ELECTRICAL CONTRACTOR TO MOUNT 4" SQUARE x 2 1/2" DEEP JUNCTION BOX WITHIN 3'-0" OF WINCH LOCATION

** The minimum wire size is dependent on the motor voltage, motor full-load amperage rating, and the total distance from the circuit breaker panel to the junction box. Consult *VOLTAGE DROP CALCULATION TABLES* to determine the minimum wire size.

MOTOR SPECIFICATIONS

1½ H.P.
THREE PHASE
1725 RPM
5.3 AMP @ 208V
5.0 AMP @ 220V
2.5 AMP @ 460V



** THREE PHASE 60 HERTZ POWER SOURCE

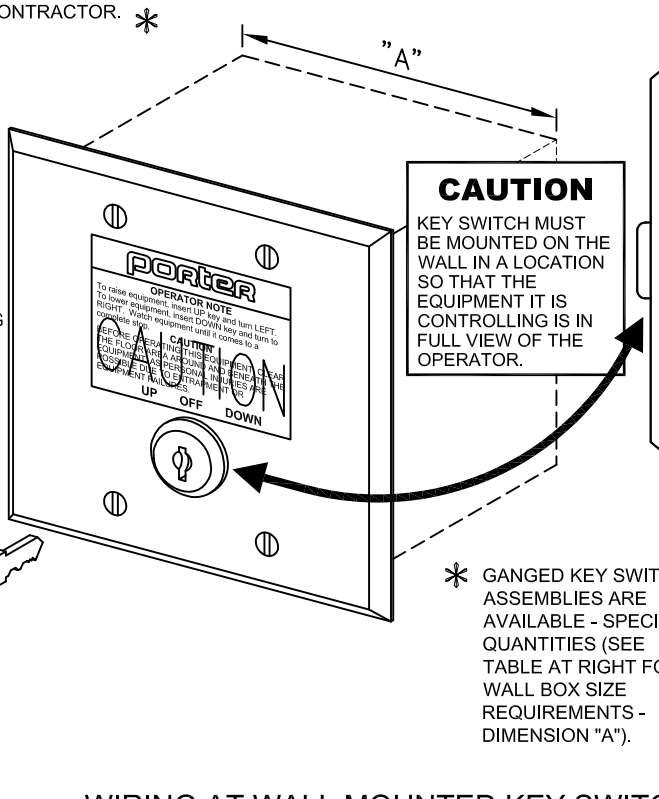
THREE-PHASE POWER TO JUNCTION BOX - (4 WIRES)
- L1A (POWER)
- L2A (POWER)
- L3A (POWER)
- GROUND

CONTROL WIRES TO JUNCTION BOX - (3 WIRES)
- 4 UP (KEYSWITCH)
- 8 DOWN (KEYSWITCH)
- 3 COMMON (KEYSWITCH)

JUNCTION BOX 3'-0" FROM WINCH LOCATION (BY OTHERS)

INDIVIDUAL KEY SWITCH MOUNTED IN A STANDARD 4½" SQUARE FLUSH-MOUNTED STAINLESS STEEL COVER PLATE FOR MOUNTING IN A 4" SQUARE x 3½" DEEP MASONRY BOX (RACO No. 696 OR EQUAL) BY ELECTRICAL CONTRACTOR. *

MOMENTARY KEY SWITCH FURNISHED WITH TWO KEYS (UP AND DOWN) TO PREVENT THE POSSIBILITY OF INSTANTANEOUS REVERSING OF THE WINCH, WHICH COULD RESULT IN OVERRIDING THE LIMIT SWITCHES, OR PLACING UNDUE STRESS ON HOIST SYSTEM. DO NOT SEPARATE KEYS FROM EACH OTHER.



CAUTION
KEY SWITCH MUST BE MOUNTED ON THE WALL IN A LOCATION SO THAT THE EQUIPMENT IT IS CONTROLLING IS IN FULL VIEW OF THE OPERATOR.

TOP VIEW OF KEY SWITCH

TERMINALS: ¼" QUICK CONNECT TYPE. MATING TERMINALS PROVIDED BY ELECTRICAL CONTRACTOR.

* GANGED KEY SWITCH ASSEMBLIES ARE AVAILABLE - SPECIFY QUANTITIES (SEE TABLE AT RIGHT FOR WALL BOX SIZE REQUIREMENTS - DIMENSION "A").

KEY SWITCH QTY.	"A" BOX WIDTH	RACO MASONRY BOX No. (Or Equal)	RACO GANGABLE BOX No. (Or Equal)
1	3¾"	696	592 Qty. 2
2	7⅜"	698	592 Qty. 4
3	11"	965	592 Qty. 6
4	14⅝"	N/A	592 Qty. 8
5	18¼"	N/A	592 Qty. 10
6	21⅞"	N/A	592 Qty. 12

WIRING AT WALL MOUNTED KEY SWITCH

IMPORTANT NOTE - PERFORMANCE OF THIS WINCH IS BASED ON _ _ _ VOLTS AT MOTOR TERMINALS. VOLTAGES LESS THAN _ _ _ VOLTS WILL AFFECT HOISTING CAPACITY AND RESULT IN DAMAGE TO MOTOR, THUS VOIDING WARRANTY. ***SUBSTITUTION*** OF THIS KEY SWITCH WILL VOID ALL WARRANTIES AND WILL RENDER THE OPERATION OF MAT MOVERS UNSAFE.

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