Wiring Specifications

Refer to the following steps for details on power and accessory wiring for the operator.

AC Power Wiring

A WARNING A

ALL AC ELECTRICAL CONNECTIONS TO THE POWER SOURCE AND THE OPERATOR MUST BE MADE BY A LICENSED ELECTRICIAN AND MUST OBSERVE ALL NATIONAL AND LOCAL ELECTRICAL CODES.

1. Find the listing on this page corresponding to the model, voltage

USE COPPER WIRE ONLY!

and horsepower rating of your operator.

- 2. The distance shown in the table is measured in feet from the operator to the power source. DO NOT EXCEED THE MAXIMUM DISTANCE. These calculations have been based on standard 115 V and 230 V supplies with a 10% drop allowable. If your supply is under the standard rating, the runs listed may be longer than what your application will handle, and you should not run wire too near the maximum distance for the gauge of wire you are using.
- 3. When large-gauge wire is used, a separate junction box (not supplied) may be needed for the operator power connection.
- 4. Wire length calculations are based on the National Electrical Code, Article 430 and have been carefully determined based on motor inrush, brake solenoids, and operator requirements.
- 5. Connect power in accordance with local codes. The green ground wire must be properly connected.
- 6. Wire insulation must be suitable to the application.
- 7. Electrical outlets are supplied in all 115 VAC models for convenience with occasional use or low power consumption devices only. If you choose to run dedicated equipment from these devices, it will decrease the distance for maximum length and the charts will no longer be accurate.

DC Control and Accessory Wiring

- 1. All control devices are now 24 VDC, which can be run up to 2000 feet with 14 AWG wire.
- 2. Control wiring must be run in a separate conduit from power wiring. Running them together may cause interference and faulty signals in some accessories.
- 3. A three-wire shielded conductor cable is required to connect two operators together for dual operation. You must use Belden 8760 Twisted Pair Shielded Cable (or equivalent) only P/N 2500-1982, per foot). See Page 23 for details of this connection. **Note: The shield wire should be connected in both the operators.**

MODEL SWR POWER WIRING						
VOLTS & HP	MAXIMUM DISTANCE (FEET)		WIRE GAUGE			
	SINGLE	DUAL	WINE GAUGE			
115 VOLTS 1/2-HP	316	158	12			
	502	251	10			
	800	400	8			
	1272	636	6			
	2022	1011	4			
230 VOLTS 1/2-HP	764	382	12			
	1218	609	10			
	1936	968	8			
	3076	1538	6			
	4896	2448	4			

MODEL SWC POWER WIRING						
	MAXIMUM DISTANCE (FEET)					
VOLTS & HP	SINGLE	DUAL	─ WIRE GAUGE			
115 VOLTS 1/2-HP	222	111	12			
	354	177	10			
	566	283	8			
	900	450	6			
	1430	715	4			
115 VOLTS	178	89	12			
	282	141	10			
	450	255	8			
3/4-HP	716	358	6			
	1140	570	4			
	160	80	12			
115 VOLTO	254	127	10			
115 VOLTS	406	203	8			
1-HP	646	323	6			
	1026	513	4			
	760	380	12			
000 1/01 TO	1200	600	10			
208 VOLTS	1924	962	8			
1/2-HP	3060	1830	6			
	4864	2432	4			
	604	302	12			
000 1/01 TO	958	478	10			
208 VOLTS	1526	763	8			
3/4-HP	2424	1212	6			
	3856	1928	4			
	544	272	12			
000 VOLTO	864	432	10			
208 VOLTS	1374	686	8			
1-HP	2184	1092	6			
	3476	1738	4			
	894	447	12			
000110170	1422	711	10			
230 VOLTS	2264	1132	8			
1/2-HP	3600	1800	6			
	5724	2862	4			
	710	355	12			
230 VOLTS 3/4-HP	1128	564	10			
	1796	898	8			
	2852	1426	6			
	4538	2269	4			
	640	320	12			
230 VOLTS 1-HP	1016	508	10			
	1616	808	8			
	2570	1285	6			
	4090	2045	4			
	1300	1 20 10	'			

MODEL SWD POWER WIRING					
VOLTS & HP	MAXIMUM DISTANCE (FEET)		WIRE GAUGE		
VULIS & IIP	SINGLE	DUAL	WINE GAUGE		
115 VOLTS 1/2-HP	970	485	12		
	1542	771	10		
	2452	1226	8		
	3898	1949	6		
	6200	3100	4		