



A. System Specifications and Ratings

Maximum Voltage: 1,000 VoltsMaximum Current: 80 Amps

Allowable Wire: 14 AWG – 6 AWG

 Spacing: Please maintain a spacing of at least ½" between uninsulated live parts and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.

Enclosure Rating: Type 3R
Roof Slope Range: 2.5 – 12:12
Max Side Wall Fitting Size: 1"

Max Floor Pass-Through Fitting Size: 1"

Ambient Operating Conditions: (-35°C) - (+75°C)

Compliance:

- JB-1.2: UL1741

- Approved wire connectors: must conform to UL1741

10-14 awg

- System Marking: Interek Symbol and File #5019942
- Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.

Torque 1 Conductor 2 Conductor Type NM Inch Lbs Voltage Current Sol/Str ABB ZS6 terminal block 10-24 awg 0.5-0.7 6.2-8.85 16-24 awg 600V 30 amp Sol/Str 8.85-14.16 ABB ZS10 terminal block 6-24 awg 12-20 awg 1.0-1.6 600V 40 amp 4-24 awg ABB ZS16 terminal bock 10-20 awg Sol/Str 1.6 - 2.414.6-21.24 600V 60 amp Sol/Str 8.85 600V ABB M6/8 terminal block 8-22 awg .08-150 amp Ideal 452 Red WING-NUT Wire Sol/Str Self Torque | Self Torque 600V 8-18 awg Connector Ideal 451 Yellow WING-NUT 10-18 awg Sol/Str Self Torque Self Torque 600V Wire Connector Ideal, In-Sure Push-In Sol/Str 600V 10-14 awg **Self Torque** Self Torque Connector Part #39 Sol/Str Self Torque WAGO, 2204-1201 10-20 awg 16-24 awg **Self Torque** 600V 30 amp WAGO, 221-612 10-20 awg 10-24 awg Sol/Str **Self Torque** Self Torque 600V 30 amp Dottie DRC75 6-12 awg Sol/Str Snap-In Snap-In Sol/Str 45 4-6 awg ESP NG-53 2000V Sol/Str 35 10-14 awg 4-6 awg Sol/Str 45 **ESP NG-717** 2000V Sol/Str 35 10-14 awg 4-6 awg Sol/Str 45 Brumall 4-5,3 2000V

Table 1: Typical Wire Size, Torque Loads and Ratings

Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (inches)

Sol/Str

Wire size, AWG or		Wires per terminal (pole)				
		1		2	3	4 or More
kcmil	(mm2)	mm	(inch)	mm (inch)	mm (inch)	mm (inch)
14-10	(2.1-5.3)	Not specified		-	-	-
8	(8.4)	38.1	(1-1/2)	-	-	-
6	(13.3)	50.8	(2)	-	-	-