

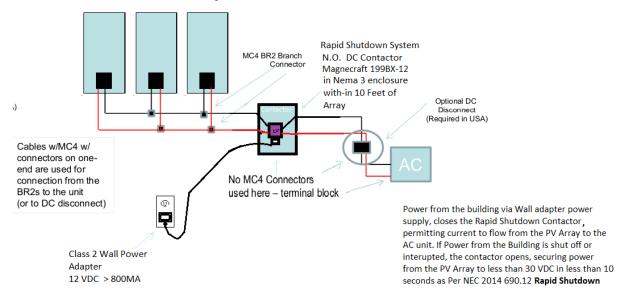
## ACDC12

# Solar Air Conditioner

### **Rapid Shutdown**

### Per 2014 NEC 690.12

**3-Panel Cable Layout** 



### 2014 NEC

#### 690.12 Rapid Shutdown Of PV Systems On Buildings.

PV system circuits installed on or in buildings shall include a rapid shutdown function that controls specific conductors in accordance with 690.12 (1–5) as follows:

1.) Requirements for controlled conductors shall apply only to PV system conductors of more than 1.5 m (5 ft.) in length inside a building, or more than 3 m (10 ft.) from a PV array.

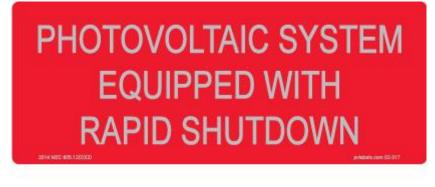
2.) Controlled conductors shall be limited to not more than 30 volts and 240 volt-amperes within 10 seconds of rapid shutdown initiation.

3.) Voltage and power shall be measured between any two conductors and between any conductor and ground.

4.) The rapid shutdown initiation methods shall be labeled in accordance with 690.56(C).

5.) Equipment that performs the rapid shutdown shall be listed and identified.





5 <sup>3</sup>⁄<sub>4</sub>" x 2 <sup>1</sup>⁄<sub>4</sub>"

The PV system with rapid shutdown ability shall be properly labeled according to NEC 690.56 (C). The sign/label should be right at the service entrance and match the sample above (text and color scheme)

# System operation

Power from the building energizes a class 2 wall power adapter. This produces 12 vdc at a current lever sufficient to operate the coil on the Rapid Shutdown contactor. With the coil energized, the contactor closes (switches on) providing a path for current flow between the Photovoltaic Array and the Air Conditioning unit. In the event of a fire or other emergency, Emergency Responders shut down power to the building. When this occurs, power is lost to the wall power adapter and contactor coil. With the contactor opens (switches off), PV power is disconnect from the Air Conditioning unit. In order to be in compliance with NEC 2014 Art 960.12 (1) *Requirements for controlled conductors shall apply only to PV system conductors of more than 1.5 m (5 ft.) in length inside a building, or more than 3 m (10 ft.) from a PV array.* So the Rapid Shutdown unit must be no more than 10 ft from the array if installed on the roof of the building.

Once power is restored to the building, the system continues as before.



### Rev 9/2/2015

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COURS COUSS CONSTRUCTION OF COUSSES	ы вс 60947-1	DPDT	SPDT	SPST-DM		
PART NUMBERS		199AX, 199X, 199AMX1, 199MX1, 199ABX2, <mark>199BX2</mark>	199ADX, 199DX, 199ADYX, 199DYX, 199ADBX², 199DBX²	199P <sup>2+</sup> , 199AP <sup>3+</sup>	199ADE, 199DE, 199ADBE <sup>2</sup> , 199DBE <sup>2</sup>	
CONTACT CHARACTERIS	STICS					
Number and type of contacts Contact material		SPST, SPDT, DPST, DPDT AgSnO	SPST-DM, SPST-DB	DPDT, SPDT	SPST-DM	
Thermal (carrying) current rating		40 A		50 A		
Maximum switching voltage Rated Switching current at voltage	Resistive Motor	600 V(ms)           40 A at 300 VAC;           5 A at 480 VAC;           5 A at 480 VAC;           40 A at 28 VDC           2 HP at 120 to 600 VAC	40 A at 300 VAC; 12 A at 480 VAC; 10 A at 600 VAC; 40 A at 28 VDC	50 A at 300 VAC; 5 A at 480 VAC; 5 A at 600 VAC; 50 A at 28 VDC	50 A at 300 VAC; 12 A at 480 VAC; 10 A at 600 VAC; 50 A at 28 VDC	
	Tungsten Pilot duty	15 A at 120 VAC A600				
Minimum switching requirement		1 A at 5 VAC/VDC				
COIL CHARACTERISTICS Voltage range	5	6 to 600 VAC; 6 to 250 VDC				
Derating range (% of Nomina)	avimum)	85% to 110% (AC); 80% to 110	% (DC)*			
Average power consumption (Ma Drop-out voltage threshold	asintuntij	10 VA; 4 W 10% (AC/DC)				
PERFORMANCE CHARA( Electrical life (IEC 60947-1)	Rated resistive load	Please refer to Table 3				
Operating time (response time)		30 ms				
Dielectric strength	Between coil and contact	2200 V	2200 V	2200 V	2200 V	
	Between poles Between open contacts	2200 V 1600 V	N/A 2200 V	2200 V 1600 V	N/A 2200 V	
	Between open contacts		2200 V	1800 V	2200 V	
Product certifications Ambient temperature range (aro	und the desires	UL, CSA, CE, RoHS				
	una lite aevice)	-55 to +55 °C (Operation)				
Termination <sup>a</sup>		10 (5.3) AWG (mm²)				
		11 to 15 in -lb (1.2 to 1.7 Nm)				
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Erminal tightening torque Weight is a clear senior rating, pleas refer to a clear senior rating, pleas refer to is a clear senior rating positions: here is a clear senior rating positions: here	Sector 102         Sector 102           Image: Sector 102         10 A           Image: Sector 102         10 A           So 60 Hz         10 A           So 60 Hz         0.25 HP           Image: Sector 102         0.20 HP	227 to 312 g (8 to 11 cc)           Table 2: Addi           RELAY VOLTA           10 VDC           220 VDC           220 VDC           220 VDC           220 VDC           3000 VDC           3000 (per IEC 60947-1, 609           FREQUENCY         LOAD TYPE           50/60 Hz         Resistive           Motor         Tungsten            Pikk Duty           DC         Resistive	GE RATING W/ELC 80 A 8 A 4 A 2 A 47-4-1) ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL 25.000 cycles 50:000 cycles 50:000 cycles 100,000 cycles 100,000 cycles 100,000 cycles 100,000 cycles 100,000 cycles	SEE NOTE(5)         Note           1.4         2.4           2.4         3.4           4         3.4           4         6.5           4         7.8           4         7.8           4         7.8           5         7.9           6         7.7           7.8         7.8           6         7.7           7.9         7.9           2.9         2.4	Similar der to modes with pressure in the control of the pressure in the second of t	
Imminal tightening torque Weight is an any existent atings, please refer to a conserve an any existent atings, please refer to a conserved at the second at the second at the second leconmended meuning positions: here and leconmended meuning positions: here any lecond at the second at the second at the second lecond at the second at the second at the second lecond at the second at the second at the second lecond at the second at the second at the second lecond at the second at the second at the second lecond at the second at the second at the second at the second lecond at the second at the second at the second at the second lecond at the second at the	Sector 102         Sector 102           Image: Sector 102         10 A           Image: Sector 102         10 A           So 60 Hz         10 A           So 60 Hz         0.25 HP           Image: Sector 102         0.20 HP	227 to 312 g (8 to 11 cc)           Table 2: Addi           RELAY VOLTA           10 VDC           220 VDC           220 VDC           220 VDC           220 VDC           3000 VDC           3000 (per IEC 60947-1, 609           FREQUENCY         LOAD TYPE           50/60 Hz         Resistive           Motor         Tungsten            Pikk Duty           DC         Resistive	GE RATING W/ELC 80 A 8 A 4 A 2 A 47-4-1) ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL ESTIMATED ELECTRICAL 25.000 cycles 50:000 cycles 50:000 cycles 100,000 cycles 100,000 cycles 100,000 cycles 100,000 cycles 100,000 cycles	SEE NOTE(5)         Note           1.4         2.4           2.4         3.4           4         3.4           4         6.5           4         7.8           4         7.8           4         7.8           5         7.9           6         7.7           7.8         7.8           6         7.7           7.9         7.9           2.9         2.4	Similar der to modes with pressure in the control of the pressure in the second of t	