

ASCO 185 SERIES SERVICE EQUIPMENT POWER TRANSFER SWITCH RATED 400 AMPS, 240V SINGLE PHASE, 3 WIRE

NOTES:

1) Service Equipment Automatic Power Transfer Switch:
ASCO E01AUS, 2 pole, 400 amperes, 240 vac. Listed to UL 1008, Standard for Transfer Switching Equipment. For use on Optional Standby Systems as defined by NFPA 70 (National Electrical Code (NEC), Article 702).

* Suitable for use as service equipment—Normal Source Only.
An additional disconnect must be readily accessible for the alternate source, unless the alternate source is an accessible generator and can be readily shutdown.

Automatic Power Transfer Switch: ASCO E185, 2 pole, 400 amp, 240 vac. UL Listed to UL 1008 Standard for Transfer Switching Equipment.

Transfer Controller - ASCO Group 4 Automatic Transfer Controller including: (Refer to 185 Series Operator's Manual, PN 381333-319, supplied with the transfer switch for detailed information)

User Controls & Status Indication

Load on Preferred Source (Utility) LED indicator - green
Load on Alternate Source (Generator) LED indicator - red
Preferred Source (Utility) Acceptable LED indicator - green
Alternate Source (Generator) Acceptable LED indicator - red
Automatic Engine-Generator Exerciser (Setting & Engine Running) LED indicator
Transfer Test membrane pushbutton
Bypass Time Delay (active time delay or engine-generator exercise period) membrane pushbutton
Set Engine Exerciser membrane pushbutton

Time Delays

Override Momentary Preferred Source (Utility) Outages - Factory set at 3 seconds
Transfer to Alternate Source (Generator) - Factory set at 10 seconds
Override Momentary Alternate Source (Generator) Outages - Factory set at 4 seconds
Retransfer to Preferred Source (Utility) - 5 minutes/fix
Engine-Generator Unloaded Running (Cooldown) Period - Factory set at 5 minutes

Control Signals

Engine-Generator Automatic Starting Controls - (1) form C contact

Remote Controls (Using Customer Supplied Contacts)

Remote Test Feature
Remote Test with Automatic Retransfer to Preferred Source (Utility) Feature
Bypass Time Delay on Retransfer to Preferred Source (Utility) Feature

2) Enclosure: Listed to UL 50 Standard for Enclosures for Electrical Equipment, Type 3R Outdoor. Constructed of 0.122 thick Aluminum Alloy (5052-H32). Finish - RAL 7035 Light Gray Polyester Powder Coating.

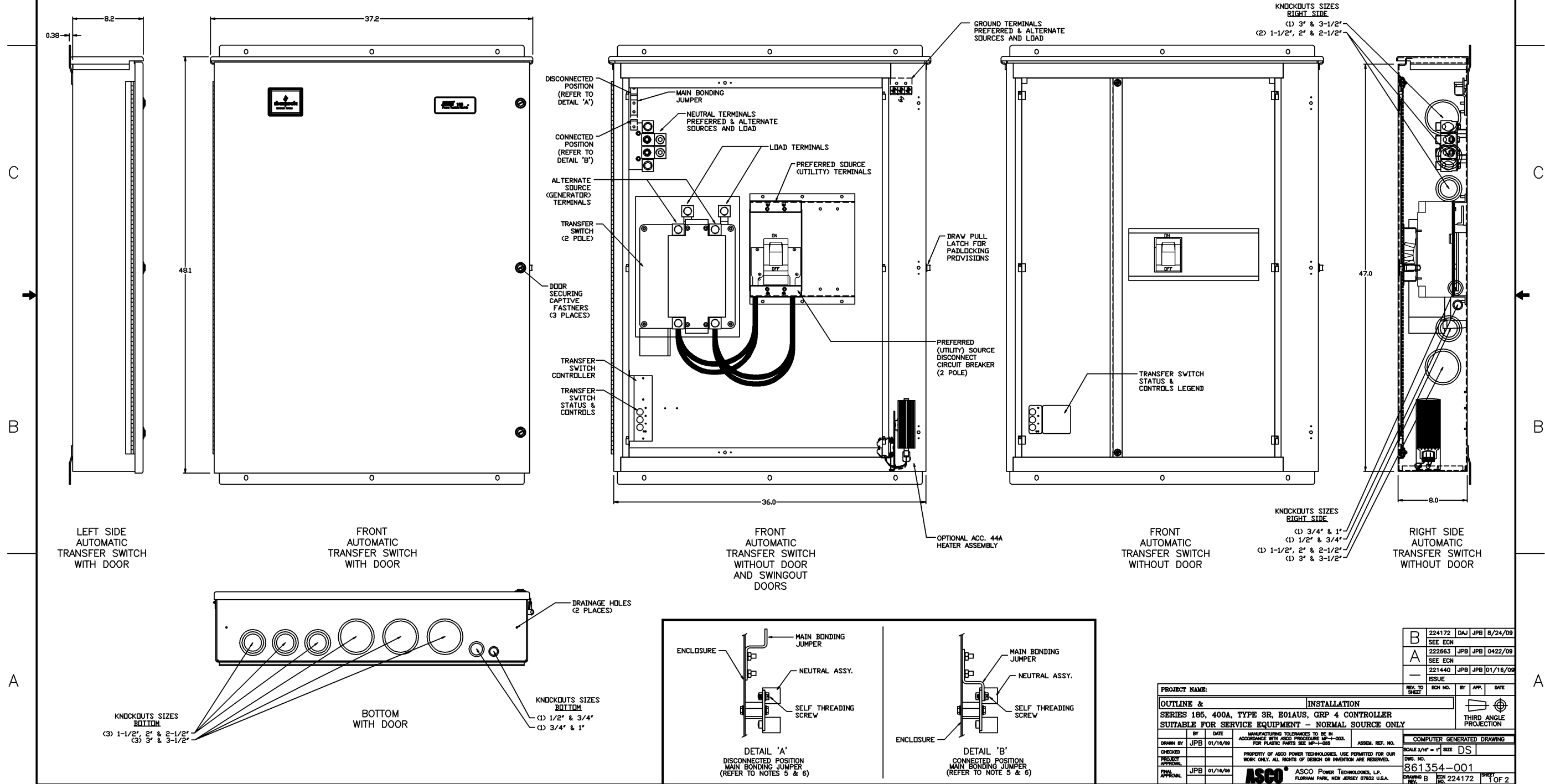
3) Neutral & Equipment Ground Terminations - Provide for Preferred (Utility) & Alternate (Generator) Sources and Load.

4) Conductor Sizes - 400 amps: Alternate (Generator) Source and Load
(1) 400 MCM - 600 MCM
(2) 1/0 AWG - 250 MCM
Preferred (Utility) Source
(1) #1 AWG - 600 MCM
(2) #1 AWG - 250 MCM

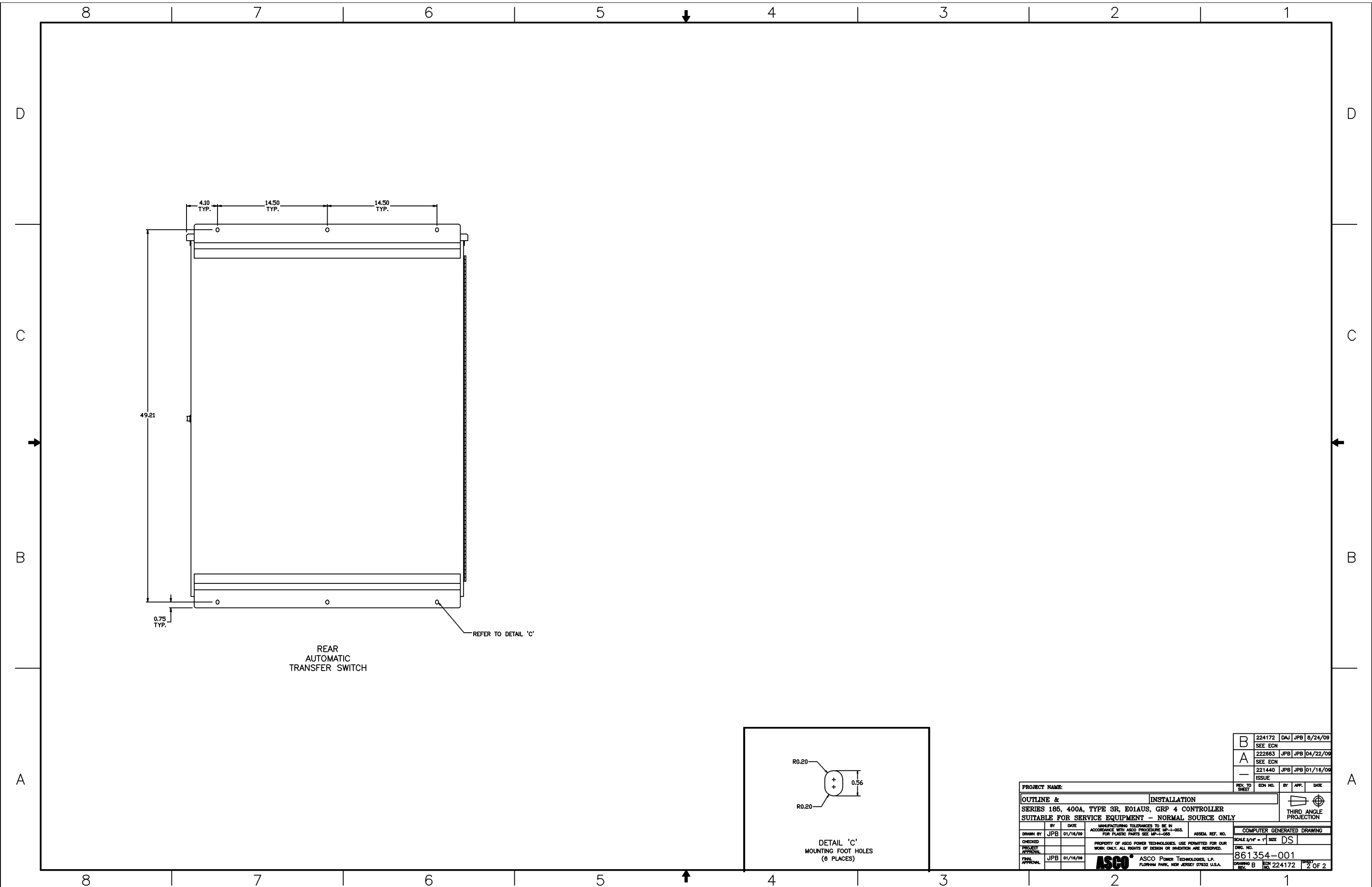
5) Main Bonding Jumper factory installed in the Disconnected position.

6) When used for Service Entrance the Main Bonding Jumper is to be removed from the Disconnected position and re-installed in the Connected position, with the existing hardware and one (1) additional 1/4-20 thread forming screw, which connects the Main Bonding Jumper to the Neutral Terminal Assembly.

7) Short Circuit Rating:
(Main): 42kA at 240 vac (Preferred (Utility) Source Disconnect Circuit Breaker), Square-D Cat. No. LAL26400, 2 pole, 400 amp.

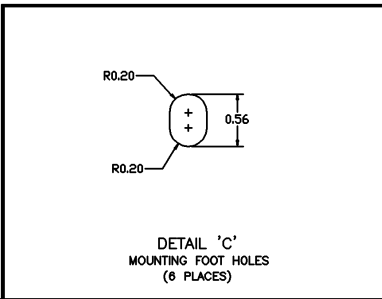


PROJECT NAME:		REV. TO SHEET	REV. NO.	BY	APP.	DATE
OUTLINE & INSTALLATION		B	224172	DAJ	JPB	8/24/09
SERIES 185, 400A, TYPE 3R, E01AUS, GRP 4 CONTROLLER		A	222663	JPB	JPB	04/22/09
SUITABLE FOR SERVICE EQUIPMENT - NORMAL SOURCE ONLY		-	221440	JPB	JPB	01/16/09
MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.		COMPUTER GENERATED DRAWING				
DRAWN BY	DATE	SCALE	3/16" = 1" SIZE	DS		
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	DWG. NO.	861354-001		
APPROVAL	DATE	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.	DRAWING REV.	B	REV.	224172
						1 OF 2



REAR
AUTOMATIC
TRANSFER SWITCH

REFER TO DETAIL 'C'



B	224172	DAJ	JPB	8/24/09
SEE ECD				
A	222663	JPB	JPB	04/22/09
SEE ECD				
-	221440	JPB	JPB	01/16/09
ISSUE				

PROJECT NAME:		INSTALLATION		REV. TO SHEET	ECN NO.	BY	APP.	DATE
OUTLINE & SERIES 186, 400A, TYPE 3R, E01AUS, GRP 4 CONTROLLER		SUITABLE FOR SERVICE EQUIPMENT - NORMAL SOURCE ONLY		THIRD ANGLE PROJECTION		COMPUTER GENERATED DRAWING		
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.		ASSEMB. REF. NO.		SCALE 3/16" = 1" SIZE DS		
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO.		861354-001		
PROJECT APPROVAL		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING B		ECN NO.		224172
FINAL APPROVAL	JPB 01/16/09	ASCO		REV.		REV.		2 OF 2