

# ASCO 185 SERIES SERVICE EQUIPMENT POWER TRANSFER SWITCH RATED 100, 200 AMPS, 240V SINGLE PHASE, 3 WIRE

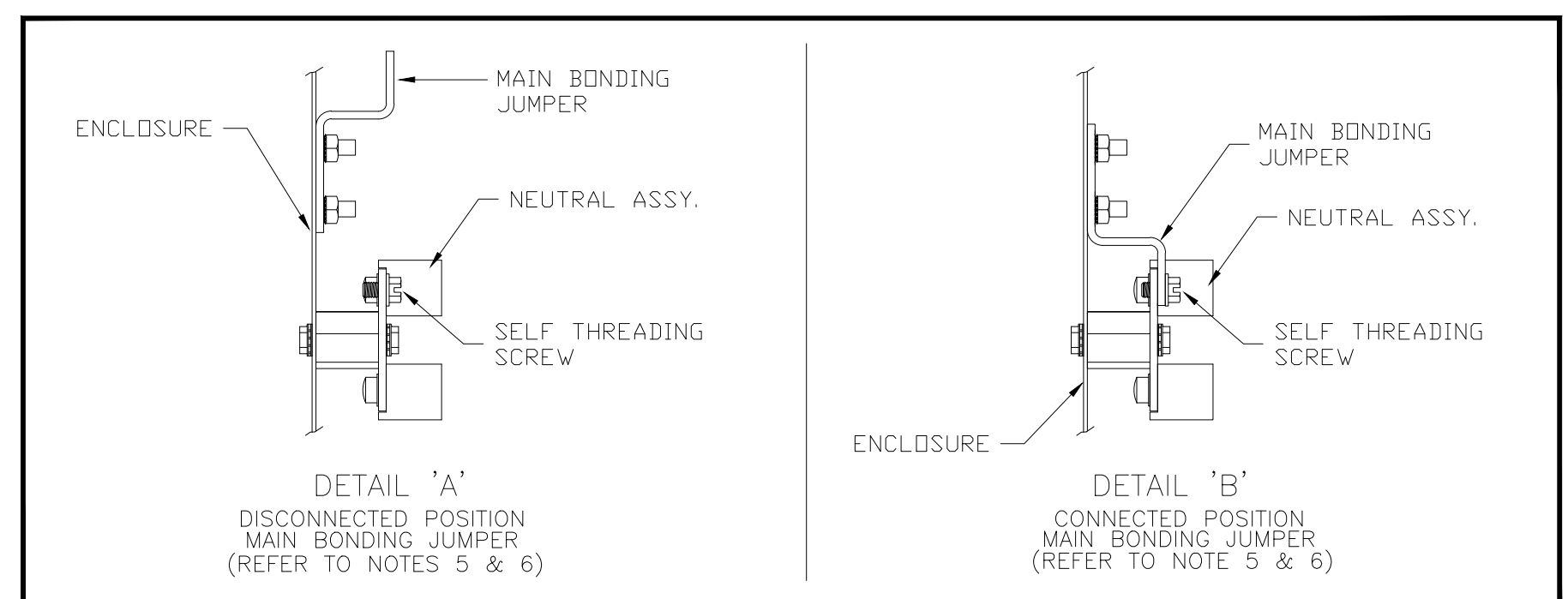
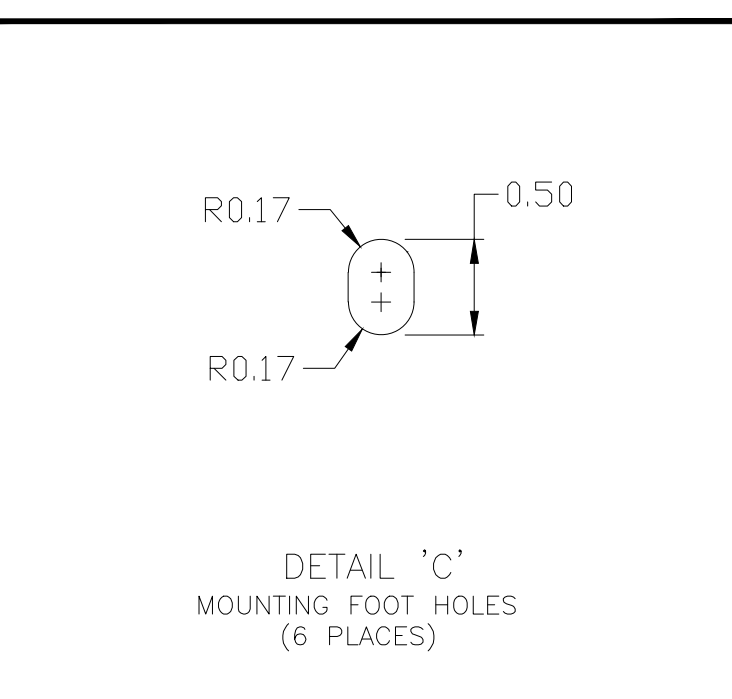
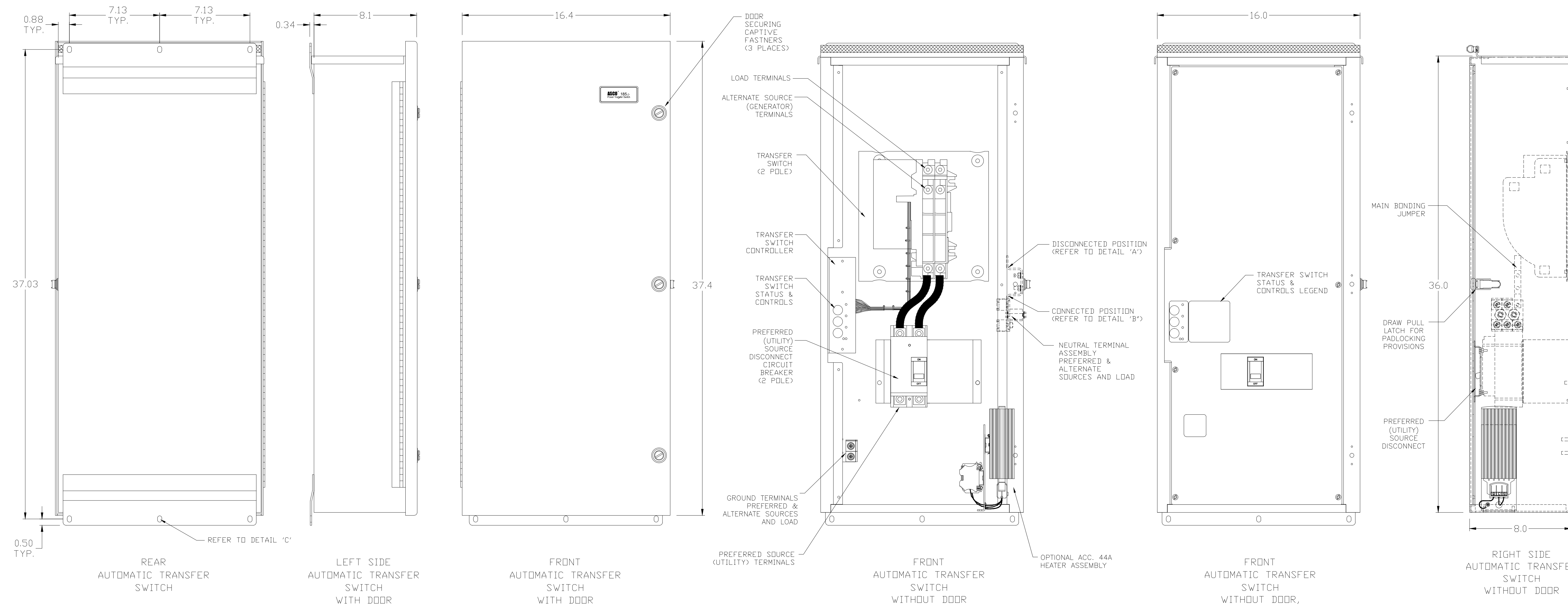
NOTES:

- Service Equipment Automatic Power Transfer Switch:  
ASCO D01AUS, 2 pole, 100 & 200 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 D185, 2 pole, 100 & 200 amp, 240 vac. UL Listed to UL 1008 Standard for Transfer Switching Equipment.  
  
Transfer Controller – ASCO Group 4 Automatic Transfer Switch 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/fixed  
Engine-Generator Unloaded Running (Cooldown) Period – Factory set at 2 minutes

- Control Signals  
Engine-Generator Automatic Starting Controls – (1) form C contact  
Load Disconnect Feature – (1) form C contact. Refer to Operator's Manual for detailed explanation of operation.
- 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
- Enclosure: Listed to UL 50 Standard for Enclosures for Electrical Equipment, Type 3R Outdoor. Constructed of 0.10 thick Aluminium Alloy (5052-H32). Finish – RAL 7035 Light Gray Polyester Powder Coating.
  - Neutral & Equipment Ground Terminations – Provide for Preferred (Utility) & Alternate (Generator) Sources and Load.

- Conductor Sizes – 100 amps: (1) #14 AWG to 4/0 AWG Al OR Cu, Alternate (Generator) Source and Load  
200 amps: (1) #14 AWG to 4/0 AWG Cu ONLY, Alternate (Generator) Source and Load  
  
(1) #4 AWG to 300 MCM, Preferred (Utility) Source
- Main Bonding Jumper factory installed in the Disconnected position.
- 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.
- Short Circuit Rating:  
(Main): 10kA at 240 vac (Preferred (Utility) Source Disconnect Circuit Breaker), Square-D Cat. No. QBL22100, 2 pole, 100 amp or Square-D Cat. No. QBL22200, 2 pole, 200 amp.



PROJECT NAME:	OUTLINE & INSTALLATION	REV. TO SHEET	ECN NO.	BY	APP.	DATE
SERIES 185 (100 & 200 AMPERES), TYPE 3R, D01AUS, GRP 4 CONTROLS		SUITABLE FOR SERVICE EQUIPMENT – NORMAL SOURCE ONLY		COMPUTER GENERATED DRAWING		
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055.	ASSEM. REF. NO.	SCALE	SIZE	DS
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		851743-001		
PROJECT APPROVAL		ASCO® ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		REV. J	ECN NO.	263816
FINAL APPROVAL	JPB 11/12/08					1 OF 1