

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

NOTES:

1) 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 amps, 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/fix
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 this section in 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

2) Enclosure: Listed to UL 50 Standard for Enclosures for Electrical Equipment, Type 1 Indoor. Constructed of 14 gauge steel. Finish – RAL 7035 Light Gray Polyester Powder Coating.

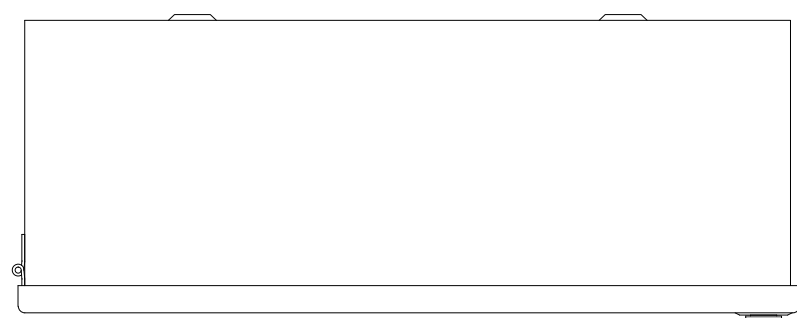
3) Neutral & Equipment Ground Terminations – Provide for Preferred (Utility) & Alternate (Generator) Sources and Load.

4) Conductor Sizes – 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

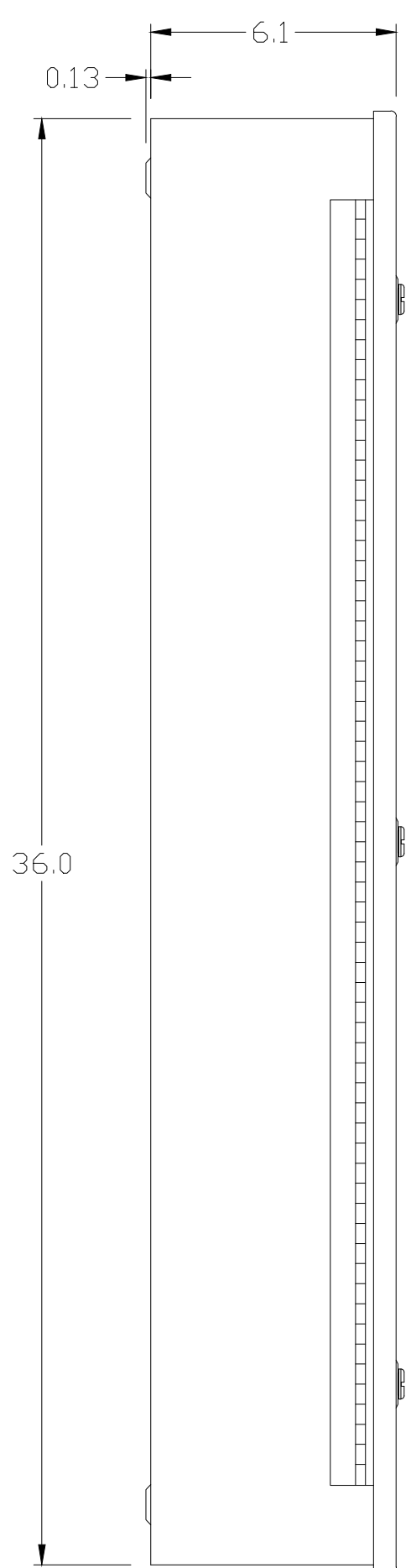
(1) #4 AWG to 300 MCM, Preferred (Utility) Source

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.

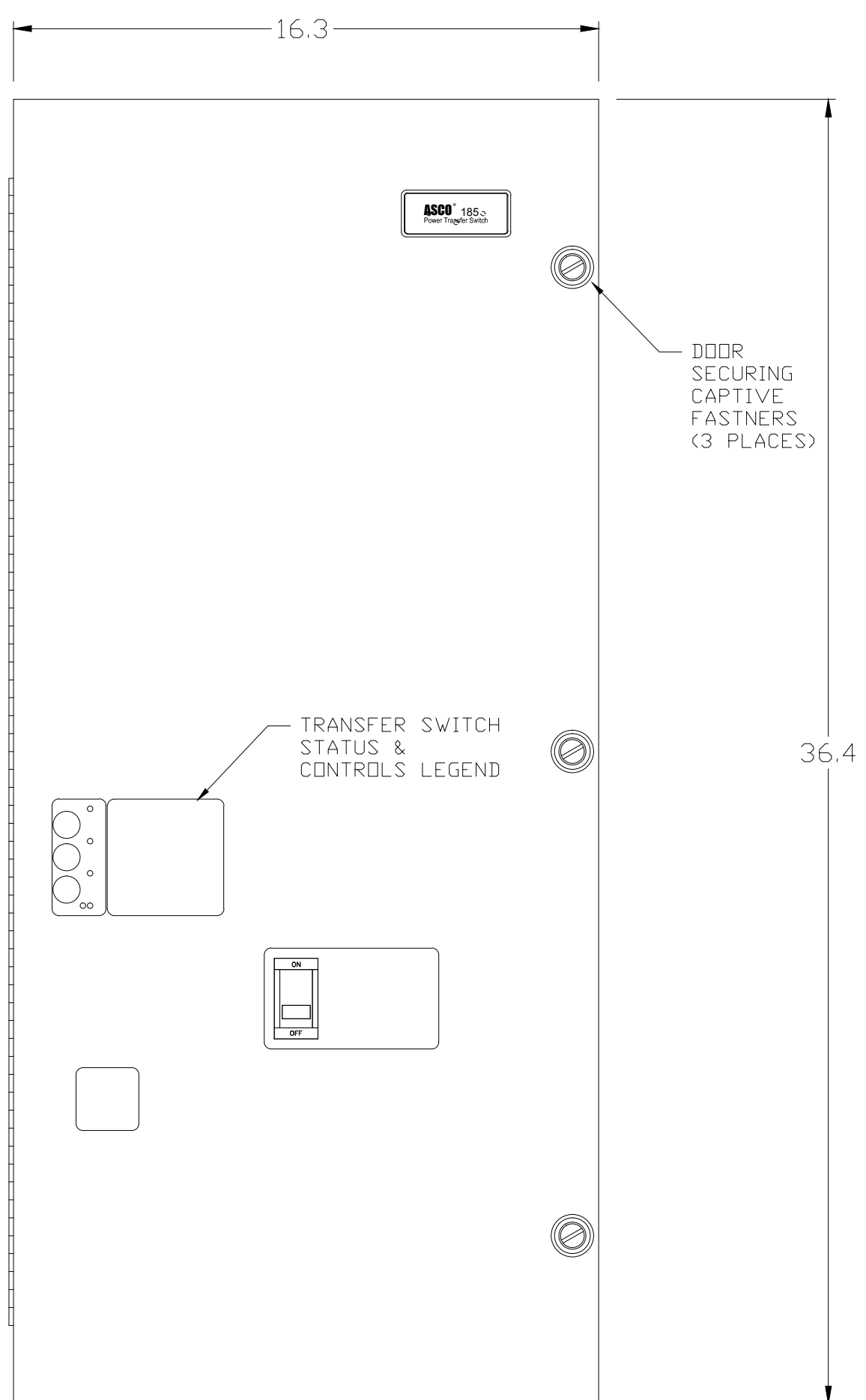
7) Short Circuit Rating:
(Main): 10kA at 240 vac (Preferred (Utility) Source Disconnect Circuit Breaker), Square-D Cat. No. QBL22100, 2 pole, 100 amp or Square-D Cat. No. QBL22200, 2 pole, 200 amp.



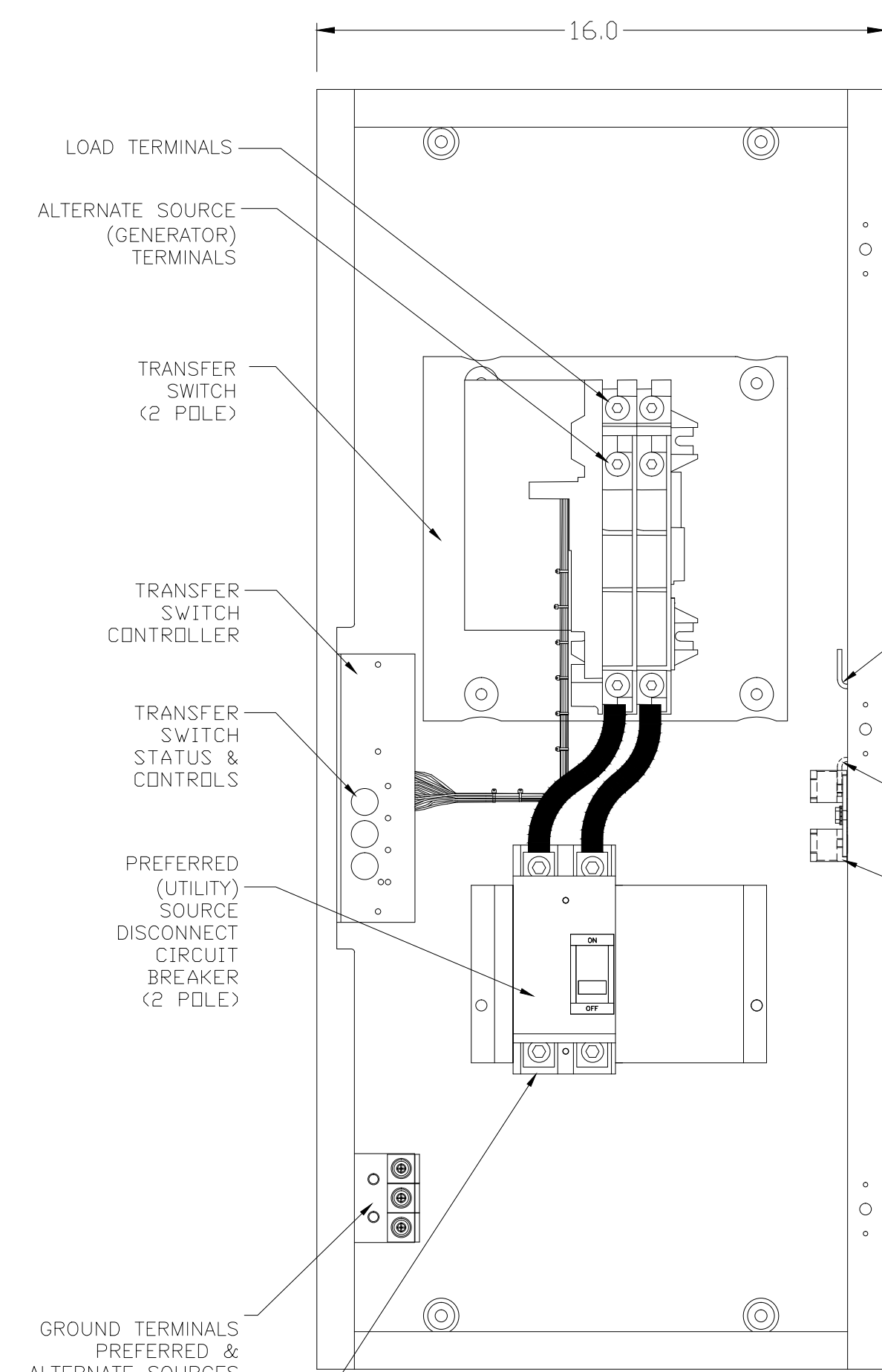
TOP WITH DOOR



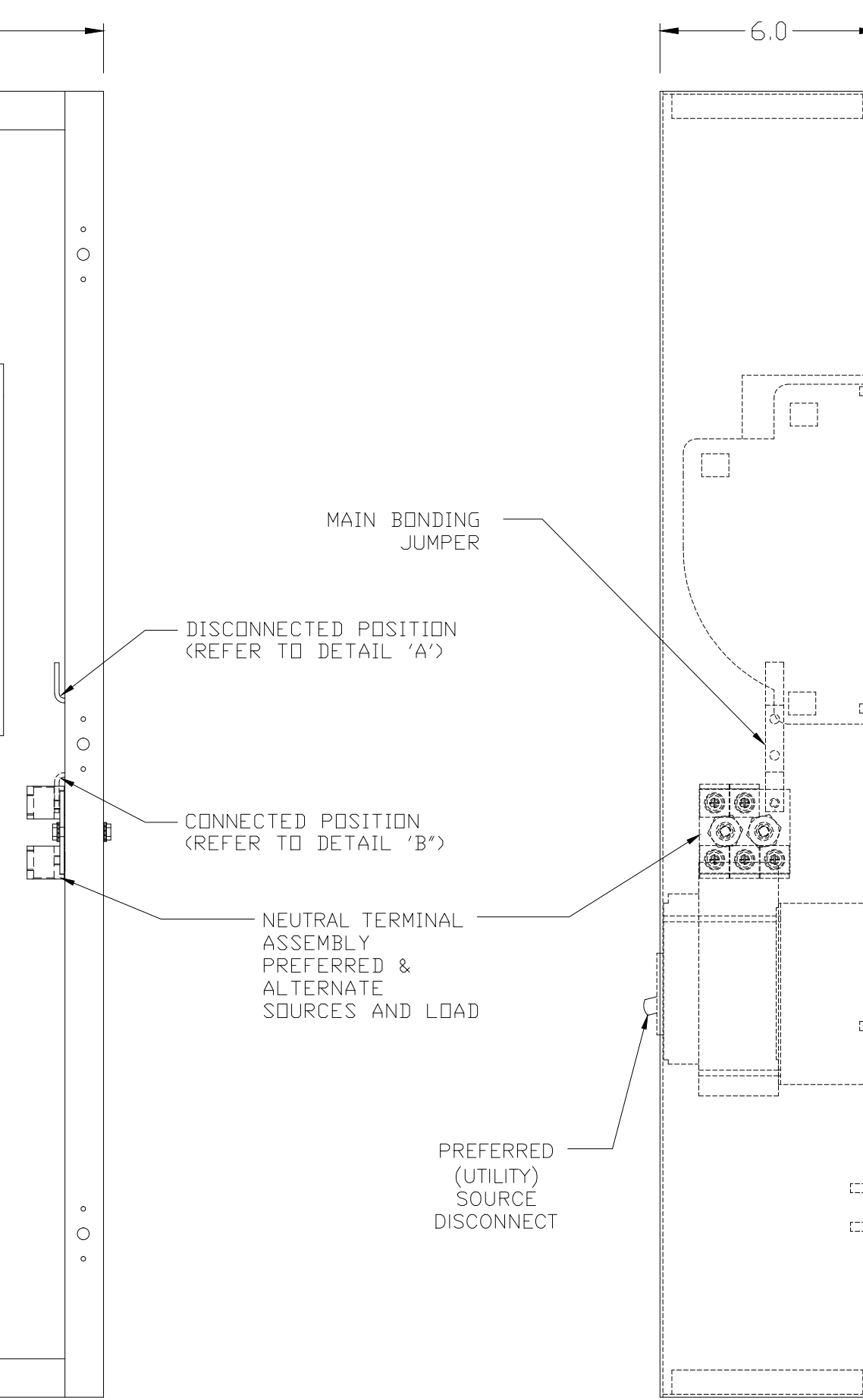
LEFT SIDE AUTOMATIC TRANSFER SWITCH WITH DOOR



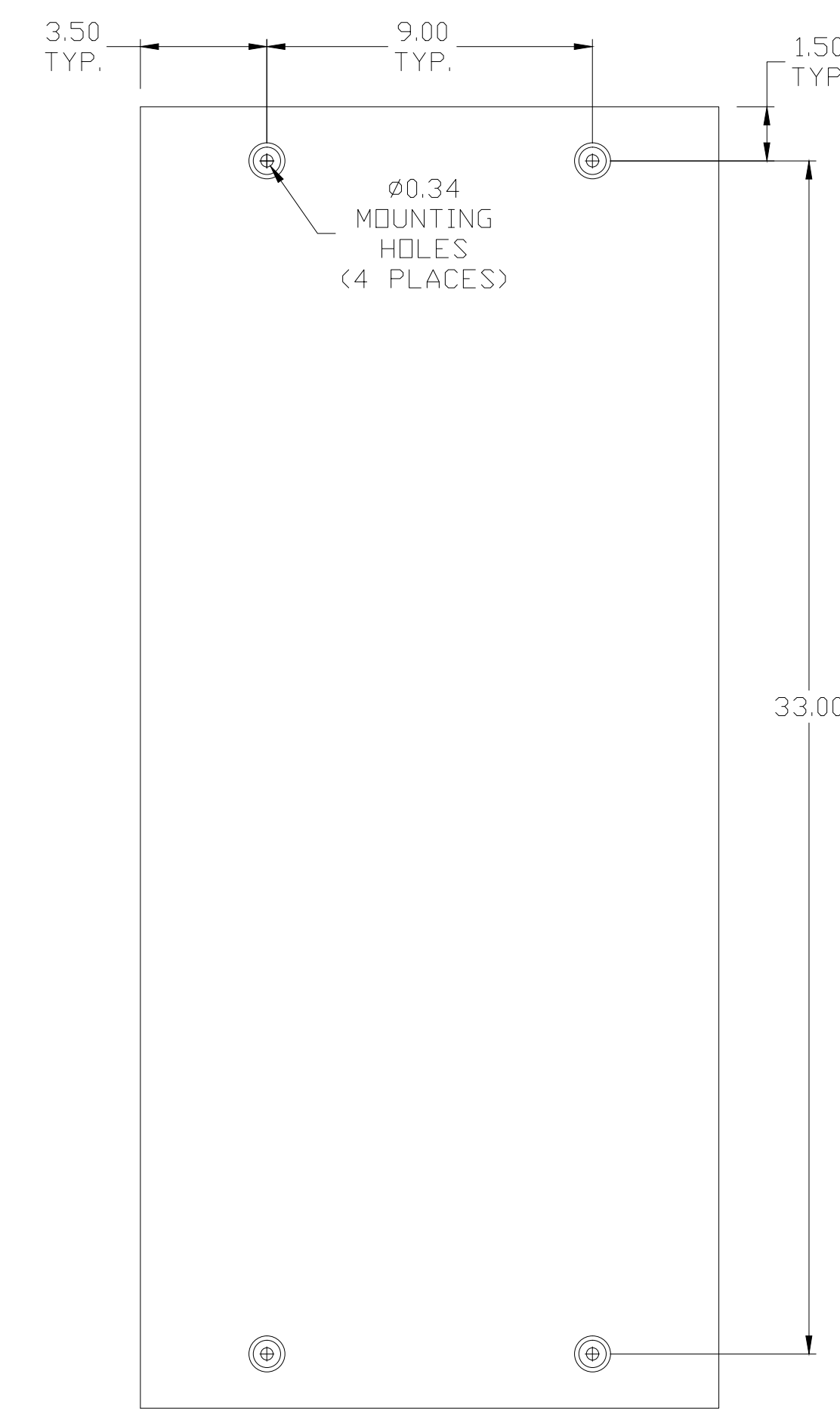
FRONT AUTOMATIC TRANSFER SWITCH WITH DOOR



FRONT AUTOMATIC TRANSFER SWITCH WITHOUT DOOR



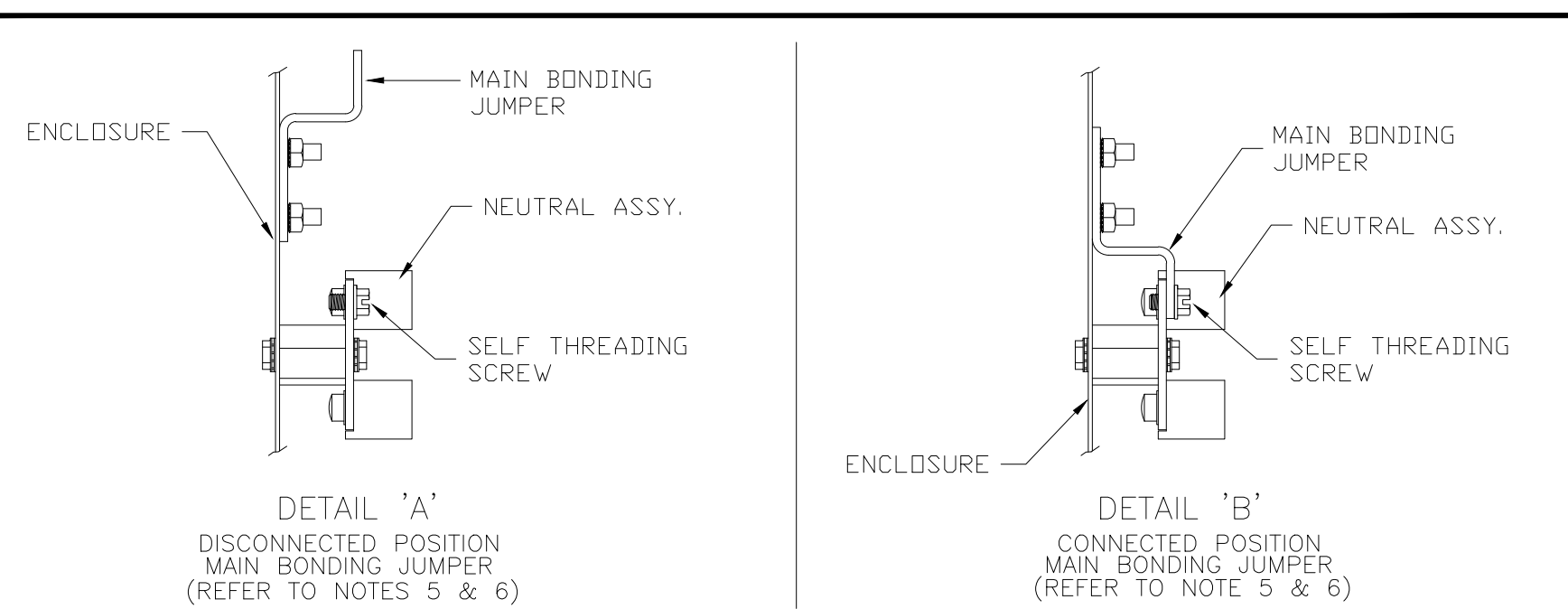
RIGHT SIDE AUTOMATIC TRANSFER SWITCH WITHOUT DOOR



REAR AUTOMATIC TRANSFER SWITCH



BOTTOM WITH DOOR



DETAIL 'A' DISCONNECTED POSITION MAIN BONDING JUMPER (REFER TO NOTES 5 & 6)

DETAIL 'B' CONNECTED POSITION MAIN BONDING JUMPER (REFER TO NOTE 5 & 6)

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
OUTLINE & INSTALLATION						
SERIES 185 (100 & 200 AMPERES), TYPE 1, D01AUS, GRP 4 CONTROLS SUITABLE FOR SERVICE EQUIPMENT – NORMAL SOURCE ONLY						
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005		ASSEM. REF. NO.	COMPUTER GENERATED DRAWING	
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			SCALE	SIZE
PROJECT APPROVAL					DWG. NO.	DS
FINAL APPROVAL	JPB 08/15/08				851743	
		ASCO® ASCO POWER TECHNOLOGIES, L.P. FLOHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING K		SHEET 1 OF 1