

COMPOSITE OUTLINE FOR ASCO® 7000 SERIES (7ATS, 7ACTS, 7ADTS) 1000-2000 AMPERE FRONT/CONNECTED TRANSFER SWITCHING EQUIPMENT

GENERAL NOTES

- TYPE 1 ENCLOSURE, FREE STANDING, FLOOR MOUNTED, 12 GAUGE FORMED FRAME CONSTRUCTION.
- NEC STANDARD GAUGE PAN TYPE DOOR WITH LOCKABLE HANDLE.
- FINISH: ASA 61 GRAY, POLYESTER POWDER STANDARD. OTHER ANSI COLORS AVAILABLE CONSULT FACTORY UL RECOGNIZED.
- CONSTRUCTION IS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF IEC 60529, IP20. UL LISTED TYPE 1.
- RECOMMENDED CLEARANCES:
FRONT: 914mm [36.00"] INCHES
- A 20% RATED GROUND BUS IS PROVIDED.
- UNIT IS DESIGNED FOR COMBINATION TOP AND BOTTOM CABLE ENTRY. THE STANDARD SWITCH CONFIGURATION IS FOR TOP ENTRY EMERGENCY & LOAD AND BOTTOM ENTRY NORMAL. OPTIONALLY, THE SWITCH MAY BE SUPPLIED WITH REVERSE SOURCES AND/OR BOTTOM ENTRY LOAD.
(REFER TO THE WIRING DIAGRAM FURNISHED WITH EACH TRANSFER SWITCH TO DETERMINE TERMINATION POSITIONS).
- IMPORTANT NOTE:
UNDER NO CIRCUMSTANCES SHOULD POWER CABLES BE ROUTED ALONG THE SIDES OF THE TRANSFER SWITCH. AN OPTIONAL CABLE PULL BOX WHICH MOUNTS ON THE LEFT SIDE OF THE ENCLOSURE IS AVAILABLE WHEN CONDITIONS EXIST FOR WHICH CABLES MUST RUN BETWEEN THE TOP AND BOTTOM OF THE UNIT. GROUND CONDUCTORS ONLY MAY BE RUN ALONG THE LEFT SIDEWALL OF THE ENCLOSURE.
- A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS AS SPECIFIED BY THE CATALOG NO. NEUTRAL TYPE:
A. SOLID (COPPER BUS) NEUTRAL
B. SWITCHED NEUTRAL POLE
C. OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON 7ADTB UNITS)
- NO KNOCKOUTS ARE PROVIDED.
CONTACT FACTORY FOR DETAILS SHIPPED SEPARATELY
- CG CENTER OF GRAVITY
- 2000 AMP TRANSFER SWITCHING EQUIPMENT ONLY.
- (OPTIONAL) LEFT SIDE PULL BOX AVAILABLE FOR TOP AND BOTTOM CABLE ACCESS WHEN REQUIRED.
CONTACT FACTORY FOR DETAILS ON OTHER AVAILABLE SIZES (IF NOT LISTED IN TABLE "A"). PULL BOXES ARE SHIPPED SEPARATELY UNLESS SPECIFIED OTHER WISE.
A. TO ATTACH PULL BOX TO THE LEFT SIDE OF THE ENCLOSURE. REMOVE CONDUIT SIDE COVERS FROM ENCLOSURE. MOVE PULL-BOX INTO POSITION. USE HARDWARE FROM CONDUIT SIDE COVERS TO ATTACH THE PULL-BOX TO ENCLOSURE.

CABLING NOTES

- ALL SIZES SUPPLIED STANDARD WITH MECHANICAL (SCREW TYPE) LUGS. (SEE AMP SIZE BELOW)
A. LUG MATERIAL: ALUMINUM ALLOY 6061-T6 WITH ELECTRO TIN PLATED FINISH.
B. SCREW MATERIAL: ALUMINUM ALLOY 6262-T9 WITH ELECTRO TIN PLATED FINISH.
C. LUG SCREW TIGHTENING TORQUE: 25.76 Nm. (19 FT-LBS.)
- SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
- OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. (SEE AMP SIZE BELOW)
A. LUG MATERIAL: HIGH CONDUCTIVITY WROUGHT COPPER FINISH, ELECTRO TIN PLATED.
B. LUG MOUNTING HARDWARE TIGHTENING TORQUE: (REFER TO WITHSTAND CURRENT RATING LABEL PROVIDED ON EACH TRANSFER SWITCH).
- SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
- CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.
- GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS. (SEE AMP SIZE BELOW)

NOTES 1000-1200 AMPS

- SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF FOUR (4) 50-300mm² [1/0 - 750MCM] CU/AL CABLE (SEE NOTE "E" BELOW).
E. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO FOUR (4) 300mm² [600MCM] CABLES PER TERMINAL.
- OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO FOUR (4) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 300mm² [600MCM]. (REFER TO CRIMP LUG INSTALLATION DATA PROVIDED WITH UNIT FOR FULL INSTALLATION DETAILS).
- SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO FOUR (4) 300mm² [600MCM] CABLES PER TERMINAL.
- GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS;
(12) 50-300mm² [1/0 - 750MCM] CU/AL CABLE

NOTES 1600-2000 AMPS

- SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF SIX (6) 50-300mm² [1/0 - 750MCM] CU/AL CABLE (SEE NOTE "E" BELOW).
E. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO SIX (6) 300mm² [600MCM] CABLES PER TERMINAL.
- OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO SIX (6) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 300mm² [600MCM]. (REFER TO CRIMP LUG INSTALLATION DATA PROVIDED WITH UNIT FOR FULL INSTALLATION DETAILS).
- SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO SIX (6) 300mm² [600MCM] CABLES PER TERMINAL.
- GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS;
(12) 50-300mm² [1/0 - 750MCM] CU/AL CABLE

POWER CONNECTIONS

RANGE OF Al-Cu CONDUCTOR SIZES
ISO CROSS SECTION (mm²)
(USE STRANDED TYPE CONDUCTORS)

SWITCH RATING (AMPS)	CONDUCTOR SIZE RANGE	RECOMMENDED TIGHTENING TORQUE
1000-1200	FOUR 50-300	42,4 Nm
1600-2000	SIX 50-300	42,4 Nm

TABLE "A"

OPTIONAL LEFT SIDE PULL BOX	
PULL BOX DIMENSIONS (H x W x D)	CONDUIT AREA TOP & BOTTOM (W) x (D)
2210mm x 203mm x 584mm [87.00" x 8.00" x 23.00"]	83mm x 457mm [3.25" x 18.00"]
2210mm x 305mm x 584mm [87.00" x 12.00" x 23.00"]	184mm x 457mm [7.25" x 18.00"]
2210mm x 508mm x 584mm [87.00" x 20.00" x 23.00"]	286mm x 457mm [11.25" x 18.00"]
2210mm x 610mm x 584mm [87.00" x 24.00" x 23.00"]	387mm x 457mm [15.25" x 18.00"]

SEE NOTE #12

TRANSFER SWITCHING EQUIPMENT
(IEC/CE) RATED UP TO 480 VAC MAX.

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE				
OUTLINE		MOUNTING								
7000 SERIES TS, 2210mm x 965mm x 584mm										
1000-2000 AMP (F/C ONLY), (90.00" x 48.00" x 23.00")										
DRAWN BY	DJB	DATE	09/08/04	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	BK	DATE	09/08/04	PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	NONE	SIZE	DS	
PROJECT APPROVAL	WK	DATE	09/08/04			DWG. NO.	619586-A			
FINAL APPROVAL		DATE				DRAWING F	ECN NO.	284160	SHEET	1 OF 1

ASCO®

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FLORHAM PARK, NEW JERSEY 07932 U.S.A.

TOP VIEW
CONDUIT AREA
SEE TABLE "A"

TOP VIEW
CONDUIT AREA
813mm x 457mm
[32.00"] x [18.00"]

"TOP VIEW"

VENTS REQUIRED FOR 2000 AMP TRANSFER SWITCH.
SEE GENERAL NOTE 11.

CONTROLLER
USER
INTERFACE

FIELD CONNECTIONS
TERMINAL BLOCK (TB)

CONTINUOUS HINGE

PULL BOX
OPTIONAL

"FRONT VIEW"

"FRONT VIEW"
WITH DOOR REMOVED

"RIGHT SIDE VIEW"

"SECTION A-A"

BOTTOM VIEW
CONDUIT AREA
SEE TABLE "A"

BOTTOM VIEW
CONDUIT AREA
812mm x 457mm
[32.00"] x [18.00"]

"BOTTOM VIEW"

"FRONT VIEW"

"RIGHT SIDE VIEW"