ASCO Power Technologies®

Stock SER ATS SWITCH

SUBMITTAL REVISION 1

Stock SER ATS

Transfer Switch Details

TRANSFER SWITCH DETAILS									
ATS NAME	QTY	AMPS / POLES (VOLTS)	BYPASS	TRANSITION TYPE	CATALOG NUMBER	ACCESSORIES	OUTLINE DRAWING	WIRING DIAGRAM	BOM NUMBER
	2	0800 / 4 (480V)	N/A	OPEN	H03AUSB30800NGXM	11BE,44G	882322-002	1001657	1039950

AIC Rating for Service Entrance Rated Units				
ATS NAME	Catalog Number	ATS Ampacity	Square D Breaker Model (Rating)	Fault Current Rating (480V)
	3AUS	600-800A	MJL(600-800A)	65kA

**For Complete Breaker Details refer to Outline Drawing*

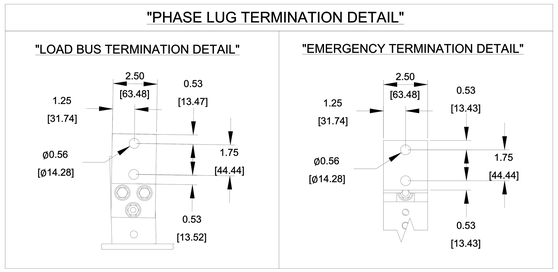
Stock SER ATS

Transfer Switch Details

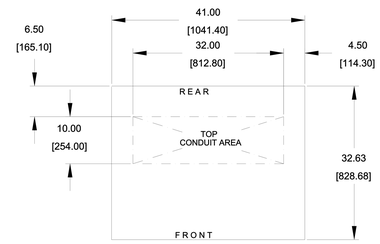
#1	ATS	AMPS: 0800	QTY: 2

Product	:	Series 300	Catalog Number	:	H03AUSB30800NGXM
Service Voltage / Hz	:	480V/60Hz	Optional Accessories	:	11BE,44G
Bypass Isolation	:	Not Applicable	Product Description	:	300 Series, Automatic Service Entrance Transfer Switch
No. of Switched Poles: 4	:	4	Neutral Configuration	:	Switched [B]
Withstand Rating: Frame = H, Switch Rating = 0800, Series = 300	:	See WCR Table Below	No. of Cables & Lug Size	:	See Applicable Outline Drawing
Enclosure	:	3R(M)-UL Type 3R secure double door enclosure (See Disclaimer 3)	Service	:	Three Phase, 4-wire
Extended Warranty	:	Not Included	Markings	:	

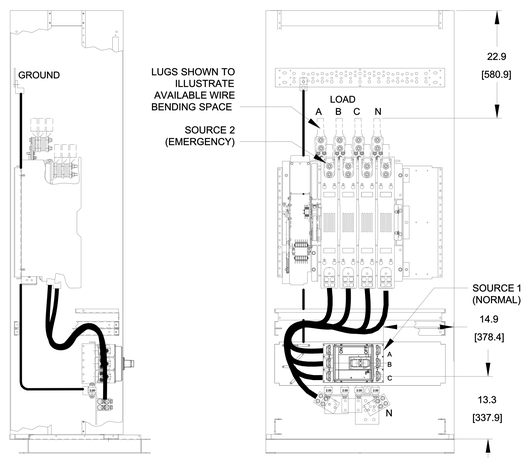
#	ACCESSORY DESCRIPTIONS	
	Accessory Code	Description
1	11BE	Adds the following features to the Group G controller: (1) Serial RS-485 Modbus Communications (2) Multi-Schedule Engine Exerciser (3) a 300 Entry Event Log and (4) a common alarm output function. When applied on 3-phase systems it also enables: (1) 3-Phase Emergency Source VLL sensing (2) Phase Rotation Monitoring (3) Emergency Source VLL Unbalance Monitoring.
2	44G	Strip heater w/ thermostat, wired to load terminals: 208-600 volts



"DETAIL - A"

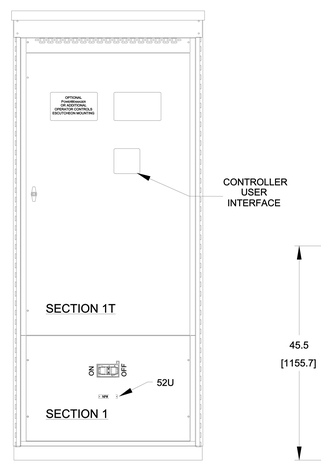


TOP VIEW

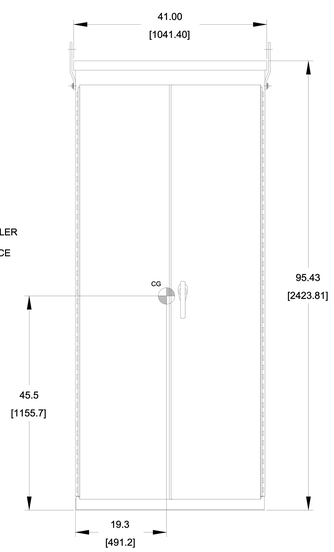


LEFT SIDE VIEW
WITHOUT COVER

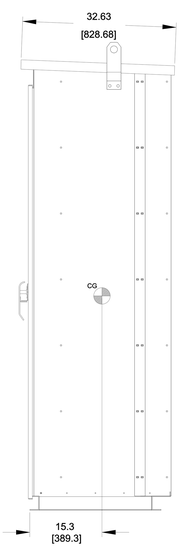
FRONT VIEW
WITHOUT COVER



FRONT VIEW
WITHOUT DOORS

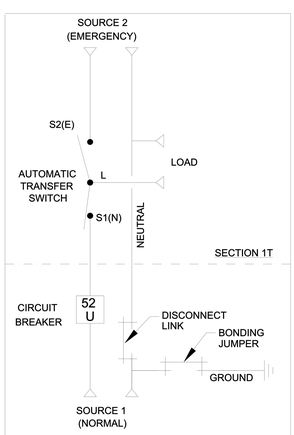


FRONT VIEW

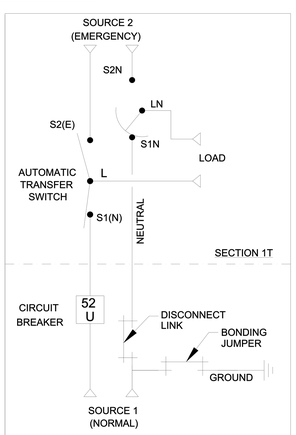


RIGHT SIDE VIEW

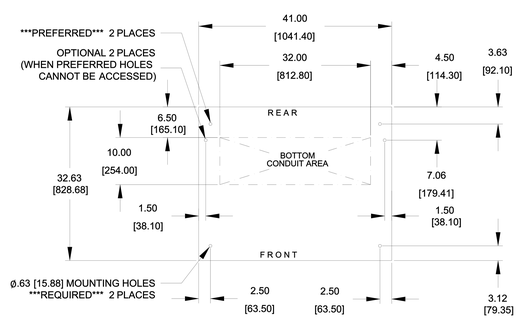
ONE LINE DIAGRAMS



(WITH SOLID NEUTRAL)



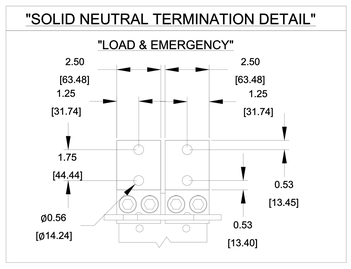
(WITH SWITCHED/OVERLAPPING NEUTRAL)



PLAN VIEW

SEE TABLE 1 FOR METRIC TERMINATIONS

TABLE 1	
14 AWG	2.5mm²
6 AWG	16mm²
4 AWG	25mm²
1/0 AWG	50mm²
2/0 AWG	70mm²
3/0 AWG	95mm²
4/0 AWG	120mm²
250 MCM	120mm²
300 MCM	150mm²
350 MCM	185mm²
400 MCM	240mm²
500 MCM	240mm²
600 MCM	300mm²
750 MCM	400mm²



"DETAIL - B"

GENERAL NOTES

1. FLOOR MOUNTED ENCLOSURE.
   TYPE 3R (M) CONSTRUCTED FROM CODE GAUGE STEEL.
   FINISH: ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
   TYPE 3RX (R) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 304 STAINLESS STEEL.
   TYPE 3RX (S) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 316 STAINLESS STEEL.
2. EXTERIOR DOOR HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 36 [914.4] REAR: NONE.
5. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS [61 N m] BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS [27 N m].
6. SECTION 1 & SECTION 1T SHIP AS 1 UNIT.
7. ● CENTER OF GRAVITY.
8. APPROXIMATE WEIGHT: 1350 LBS [612 KG].

SYSTEM NOTES

1. SYSTEM RATING: 800 AMPS.
   SOURCE 1 (NORMAL) SHORT CIRCUIT RATING: 50,000 RMS SYM @ 240V, 600V.
   65,000 RMS SYM @ 480V.
   SOURCE 2 (EMERGENCY) SHORT CIRCUIT RATING: 50,000 RMS SYM @ 240V, 480V, 600V.
   SOURCE 2 (EMERGENCY) SHORT CIRCUIT RATING MAY BE INCREASED BY UTILIZING A SPECIFIC OVERCURRENT PROTECTIVE DEVICE AS LISTED ON THE TRANSFER SWITCH.
2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
3. GROUND: AS PER NEC.
4. NEUTRAL: 100% RATED.
5. APPLICABLE LABEL(S): U.L. 891, SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

TRANSFER SWITCH

1. H FRAME 7000 SERIES AUTOMATIC/NON-AUTOMATIC TRANSFER SWITCH ONLY.
2. TRANSFER SWITCH RATING: 800 AMPS.
3. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS.
   A. SOLID NEUTRAL (SEE DETAIL B FOR TERMINATION)
   B. SWITCHED NEUTRAL POLE (SEE DETAIL A FOR TERMINATION)
   C. OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON ADTS, ACTS, NDTS & NCTS UNITS) (SEE DETAIL A FOR TERMINATION)
4. UL 1008 OR CSA C22.2 No. 178.1

TERMINATIONS 800A

1. SWITCH SUPPLIED WITHOUT LUGS ON LOAD & SOURCE 2 (EMERGENCY).
   A. SOURCE 2 (EMERGENCY), LOAD AND GROUND LUG KITS ARE ORDERED SEPARATELY.
2. MECHANICAL (SCREW TYPE) LUGS FOR COPPER (CU) OR ALUMINUM (AL) CABLE ON SOURCE 1 (NORMAL).
   SOURCE 1 (NORMAL): (3) 3/0-500MCM PER PHASE & NEUTRAL
   CONTACT THE CIRCUIT BREAKER MANUFACTURER FOR COMPRESSION LUG OPTIONS.
   COMPRESSION LUGS FOR COPPER (CU) OR ALUMINUM (AL) CABLE ON LOAD AND SOURCE 2 (EMERGENCY).
   LUG SIZES ARE BASED ON T & B AND BURNDY ONLY
   LOAD: MAX (3) 600MCM AL OR (4) 600MCM CU PER PHASE & NEUTRAL
   SOURCE 2 (EMERGENCY): MAX (3) 600MCM AL OR (4) 600MCM CU PER PHASE & NEUTRAL
   GROUND: MAX (12) 600MCM
   A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.

CIRCUIT BREAKER: ITEM 52U

1. SQUARE "D" 80% RATED TYPE 'MJL' MOLDED CASE CIRCUIT BREAKER 800AF/800AT. ELECTRONIC TRIP UNIT WITH A FIXED LONG TIME AND AN ADJUSTABLE INSTANTANEOUS SETTING AVAILABLE UPON REQUEST.
2. U.L. 489

WIRING/CABLING

1. USE 90°C MINIMUM CU/AL WIRE FOR POWER CABLES.
2. WIRE SIZE TO BE BASED ON AMPACITY OF 75°C WIRE.
3. USE 60°C MINIMUM CU WIRE FOR CONTROLS.

REV. TO SHEET	ECN NO.	BY	APP.	DATE
G	317803	SV	SV	09-26-25
	SEE ECN			
F	306549	RP	MCH	11/30/23
	SEE ECN			

PROJECT NAME:

OUTLINE | MOUNTING

HAUS 800A, MJL SE BREAKER, PROVISION FOR COMPRESSION LUG
TYPE 3R/3RX 95.5 X 41 X 33, 7000 SERIES TRANSFER SWITCH ONLY

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	SV	09-26-25
CHECKED	JPB	09-26-25
PROJECT APPROVAL		
FINAL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055

ASSEM. REF. NO.

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ASCO® ASCO POWER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.

COMPUTER GENERATED DRAWING

SCALE 1/16" = 1" | SIZE DS

DWG. NO. 882322-002

DRAWING REV. G | ECN NO. 317803 | SHEET 2 OF 3

DIMENSION ARE IN INCHES [MILLIMETERS]

THREE PHASE WIRING FOR ASCO® 300 SERIES TRANSFER SWITCHES TYPES H3ATS & H3NTS RATED 800, 1000 & 1200 AMPERES

GENERAL INFORMATION

THIS WIRING APPLIES TO 300 SERIES TRANSFER SWITCHES THAT UTILIZE THE "H" FRAME POWER TRANSFER SWITCH RATED 800-1200 AMPERES.

THE GROUP G CONTROLLER PROVIDES EITHER AUTOMATIC (D3ATS) OR NON-AUTOMATIC [MANUAL] (H3NTS) OPERATION BASED ON ITS FACTORY SETTING ACCORDING TO THE CUSTOMER ORDER REQUIREMENTS.

THE TYPE OF TRANSFER SWITCH PROVIDED CAN BE DETERMINED FROM THE PRODUCT IDENTIFICATION MARKINGS LOCATED ON BOTH THE POWER TRANSFER SWITCH AND THE COVER OF THE GROUP G CONTROLLER.

ALL OPERATIONAL SETTINGS AND SEQUENCES OF THE GROUP G CONTROLLER AND ITS RELATED OPTIONAL ACCESSORIES (1UP, 18RX, 23G) ARE PROVIDED IN THE USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400.

INFORMATION FOR INSTALLATION AND TESTING OF THE TRANSFER SWITCH IS PROVIDED IN THE INSTALLATION MANUAL, ASCO 3ATS & 3NTS, H-DESIGN 800-1200 A TRANSFER SWITCHES, PART NUMBER 381333-405.

ENGINE CONTROL CONTACTS

FEATURE 7 & FEATURE 8:
ONE SET OF FORM C CONTACTS "NR" (FEAT. 7 N/C, FEAT. 8 N/O) THAT CHANGE POSITION ON EXPIRATION OF THE FEATURE 1C, OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES TIME DELAY, AND RESET ON EXPIRATION OF THE FEATURE 2E ENGINE COOLDOWN TIME DELAY.
AN AUXILIARY CONTACT THAT IS CLOSED WHEN THE TRANSFER SWITCH IS CONNECTED TO THE EMERGENCY SOURCE, IS CONNECTED ACROSS THE N/C CONTACT (FEATURE 7).

AN ADDITIONAL SET OF ENGINE STARTING CONTACTS ARE AVAILABLE ON THE GROUP G CONTROLLER WHEN THE FEATURE SETTING OF THE CONTROLLER OUTPUT CONTACTS "OP1" IS SET TO OPERATE AS "NR2".

ADDITIONAL, OPTIONAL ENGINE STARTING CONTACTS "NR2" ARE AVAILABLE WHEN OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2" AND/OR "OP3" PROVIDE THE ENGINE STARTING FUNCTION WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "NR2".

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

LOAD DISCONNECT FEATURE

FEATURE 31: INCLUDES SUB-FEATURES 31F, 31G, 31M, 31N
A SET OF FORM C CONTACTS ARE PROVIDED ON THE GROUP G CONTROLLER AS "OP1". WHEN THE FEATURE SETTING OF "OP1" IS SET TO OPERATE THE CONTACTS AS "FEATURE 31", THE TIME DELAY SETTINGS OF THE SUB-FEATURES ARE AVAILABLE.

"OP1" CAN BE SET TO OPERATE TO PROVIDE THE FOLLOWING FUNCTIONS USING THE TIME DELAY SETTINGS ASSOCIATED WITH EACH SUB-FEATURE;

31F - NORMAL TO EMERGENCY PRE-TRANSFER SIGNAL
31G - EMERGENCY TO NORMAL PRE-TRANSFER SIGNAL
31M - NORMAL TO EMERGENCY POST-TRANSFER SIGNAL
31N - EMERGENCY TO NORMAL POST TRANSFER SIGNAL

THE "OP1" OUTPUT CONTACTS CHANGE POSITION FOLLOWING EACH OF THE ABOVE TIME DELAYS.

ADDITIONAL LOAD DISCONNECT CONTACTS, "FEATURE 31" ARE AVAILABLE WHEN OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2 AND/OR "OP3" WILL PROVIDE LOAD DISCONNECT FUNCTIONS WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "FEATURE 31".

ALL OUTPUT CONTACTS ("OP1", "OP2", "OP3") SET TO OPERATE AS "FEATURE 31", SHARE THE COMMON TIME DELAY SETTINGS OF SUB-FEATURES 31F, 31G, 31M, AND 31N.

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

INPHASE TRANSFER FEATURE FOR LOAD TRANSFER

INPHASE TRANSFER CONTROL INITIATES AN INPHASE TRANSFER OF LOADS BETWEEN LIVE SOURCES. THIS IS USED TO PREVENT NUISANCE TRIPPING OF DISTRIBUTION CIRCUIT BREAKERS AND POSSIBLE DAMAGE TO MECHANICAL LOADS ASSOCIATED WITH OUT OF PHASE TRANSFER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

SOURCE AVAILABILITY SIGNALS

SIGNALS INDICATING THE AVAILABILITY OF THE NORMAL & EMERGENCY SOURCES IS PROVIDED WHEN OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "RL5" (EMERGENCY SOURCE AVAILABLE) AND "RL6" (NORMAL SOURCE AVAILABLE) CHANGE POSITION WHEN THE SOURCE IS ACCEPTABLE.

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

COMMON ALARM & NOT IN AUTO SIGNALING FEATURES

A SET OF FORM C CONTACTS IS PROVIDED ON THE GROUP G CONTROLLER AS "OP1". THE FEATURE SETTING OF "OP1" CAN BE SET TO OPERATE THE CONTACTS AS A "NOT IN AUTO" SIGNAL.

WHEN "OP1" IS SET FOR "NOT IN AUTO", THE OUTPUT CONTACTS CHANGE POSITION WHEN THE TRANSFER IS BEING INHIBITED FROM TRANSFERRING TO THE EMERGENCY SOURCE (FEATURE 34B) OR THE TRANSFER SWITCH HAS BEEN SET FOR NON-AUTOMATIC (MANUAL) OPERATION.

WHEN OPTIONAL ACCESSORY 11BE "SOFTWARE BUNDLE" IS PART OF THE TRANSFER SWITCH ASSEMBLY, "OP1" MAY ALTERNATIVELY SET FOR A "COMMON ALARM" SIGNAL. THE OUTPUT CONTACTS CHANGE POSITION WHEN A "COMMON ALARM" IS NOT PRESENT AND RESET WHEN A "COMMON ALARM" CONDITION IS PRESENT. THE "COMMON ALARM" SIGNAL CONDITIONS ARE SELECTABLE.

ADDITIONAL "COMMON ALARM" AND "NOT IN AUTO" CONTACTS ARE AVAILABLE WHEN OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2 AND/OR "OP3" WILL PROVIDE SIGNAL FUNCTIONS WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "COMMON ALARM" OR "NOT IN AUTO".

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

EXTERNAL POWER SUPPLY COMPATIBILITY

USE OF AN EXTERNAL POWER SUPPLY IS USEFUL WHEN REQUIRED TO EXTEND THE FOLLOWING CONTROLLER TIME DELAYS BEYOND 6 SECONDS;

FEATURE 1C - OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES
FEATURE 1F - OVERRIDE MOMENTARY EMERGENCY SOURCE OUTAGES

AN EXTERNAL POWER SUPPLY IS ALSO USEFUL WHEN THE TRANSFER SWITCH IS USED WITH COMMUNICATIONS FEATURES BY ENABLING THE CONTROLLER TO CONTINUE COMMUNICATING.

AN EXTERNAL POWER SOURCE MAY BE PROVIDED TO THE CONTROLLER, UNTIL THE NORMAL SOURCE OR EMERGENCY SOURCE IS AVAILABLE, BY USE OF;

- AN EXTERNAL 24 VDC POWER SUPPLY WITH ACCESSORY 18RX (RELAY EXPANSION MODULE)
  OR
- OPTIONAL ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY MODULE)

EXTERNAL 24 VDC POWER SUPPLY "1G":
AN EXTERNAL 24 VDC POWER SUPPLY MAY BE USED TO POWER THE CONTROLLER WHEN ACCESSORY 18RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2" WILL PROVIDE EXTERNAL 24 VDC POWER SUPPLY FUNCTIONALITY WHEN ITS FEATURE SETTING IS SET TO OPERATE AS "1G". ADDITIONALLY, JUMPERS MUST BE RECONFIGURED ON ACCESSORY 18RX (RELAY EXPANSION MODULE) TO ENABLE THIS FUNCTION AS FOLLOWS;

REMOVE JUMPERS "J1" 1-2 & "J1" 3-4
CONNECT JUMPERS "J1" 5-7 & "J1" 6-8

THE OUTPUT CONTACTS CHANGE POSITION WHEN EITHER THE NORMAL SOURCE OR EMERGENCY SOURCE IS AVAILABLE AND RESET WHEN NEITHER SOURCE IS AVAILABLE. THE "OP2" N/C CONTACT SWITCHES CUSTOMER PROVIDED +24 VDC FROM THE EXTERNAL POWER SUPPLY TO THE CONTROLLER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY):
WHEN OPTIONAL ACCESSORY 1UP IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY, THE CONTROLLER IS PROVIDED WITH LIMITED RESERVE POWER (APPROXIMATELY 3 MINUTES).

LOAD CURRENT METERING

WHEN OPTIONAL ACCESSORY 23GB IS PART OF THE TRANSFER SWITCH ASSEMBLY, THREE PHASE CURRENT MEASUREMENTS ARE AVAILABLE FOR DISPLAY ON THE GROUP G CONTROLLER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR INFORMATION ON USE.

ADVANCED-FUNCTION SOFTWARE BUNDLE

WHEN OPTIONAL ACCESSORY 11BE IS PART OF THE TRANSFER SWITCH ASSEMBLY, AN ADVANCED-FUNCTION SOFTWARE BUNDLE IS AVAILABLE TO PERFORM THE FOLLOWING FUNCTIONS;

- SERIAL COMMUNICATIONS (RS-485)
- PROGRAMMABLE ENGINE EXERCISER
- EVENT LOG
- COMMON ALARM SIGNAL CAPABILITY ON GROUP G CONTROLLER "OP1" OUTPUT.

(3 PHASE SENSING ONLY)
- 3 PHASE EMERGENCY SOURCE SENSING.
- PHASE ROTATION SENSING.
- EMERGENCY VOLTAGE UNBALANCE SENSING.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR INFORMATION ON THESE FUNCTIONS.

NON-AUTOMATIC (MANUAL) OPERATION

TRANSFER SWITCH ASSEMBLIES FACTORY SET FOR NON-AUTOMATIC OPERATION PROVIDE USER INITIATED, ELECTRICAL OPERATION OF THE TRANSFER SWITCH TO EITHER AVAILABLE SOURCE. THE TRANSFER SWITCH ASSEMBLY IS PHYSICALLY IDENTICAL TO THAT OF THE AUTOMATIC TYPE.

WHEN THE TRANSFER SWITCH IS SET FOR NON-AUTOMATIC OPERATION, A CUSTOMER PROVIDED SELECTOR SWITCH MAY BE USED TO OPERATE IT FROM A REMOTE LOCATION.

REMOTE CONTROL FEATURES

THE FOLLOWING CONTROL PANEL INPUTS PROVIDE REMOTE CONTROL FUNCTIONS FOR THE TRANSFER SWITCH. EACH FUNCTION CAN BE IMPLEMENTED BY THE CUSTOMER PROVIDING THE FORM OF CONTROL DESCRIBED. EACH CONTROL CONTACT MUST BE SUITABLE FOR A 5 VDC LOW ENERGY CIRCUIT.

EXTERNAL FEATURE 17: REMOTE TRANSFER TO EMERGENCY FEATURE (FOR AUTOMATIC TRANSFER TYPE ONLY) - REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT CAUSES ENGINE START AND TRANSFER TO THE EMERGENCY SOURCE. RE-CLOSURE OF THE CONTACT ACTIVATES THE FEATURE 3A "RETRANSFER TO NORMAL (IF JUST TEST) TIME DELAY PRIOR TO RETRANSFER. IN THE EVENT THAT THE EMERGENCY SOURCE FAILS WHILE THE TRANSFER SWITCH IS CONNECTED TO EMERGENCY AND THE CUSTOMER SUPPLIED CONTACT IS OPEN, THE TRANSFER SWITCH WILL AUTOMATICALLY RETRANSFER TO THE NORMAL SOURCE.

EXTERNAL FEATURE 6B: REMOTE BYPASS OF RETRANSFER TO NORMAL TIME DELAY - REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT BYPASSES FEATURE 3A RETRANSFER TO NORMAL DELAY IF ACTIVE.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

NOTES

1. SWITCH SHOWN DE-ENERGIZED CONNECTED TO NORMAL SOURCE.
2. DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PUB. ICS 1, PART 1-101A.
2. ALL WIRING IS #16 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
3. INDICATES CUSTOMER CONNECTION POINTS.
4. INDICATES FACTORY CONNECTION POINTS.
5. CONNECTION POINTS THAT HAVE BOTH CUSTOMER CONNECTIONS AND FACTORY CONNECTIONS ARE SHOWN OPEN AS CUSTOMER CONNECTION POINTS.
6. THE TRANSFER UNIT IS MOUNTED ON THE BACK INSIDE SURFACE OF THE ENCLOSURE. THE CONTROL PANEL AND ANY OPTIONAL ACCESSORIES ARE MOUNTED ON THE INSIDE SURFACE OF THE DOOR.
7. AN OPERATOR'S MANUAL IS FURNISHED WITH EACH AUTOMATIC TRANSFER SWITCH. REFER TO THIS PUBLICATION PRIOR TO INSTALLATION AND OPERATION OF THE SWITCH.
8. GROUND STRAP ON CONTROL PANEL IS AFFIXED TO CHASSIS (ENCLOSURE) AT LOWER LEFT CONTROL PANEL MOUNTING STUD.

BASE CATALOG NUMBER					CATALOG NUMBER SUFFIXES			
TS FRAME	CATALOG TYPE	NEUTRAL TYPE	PHASE POLES	AMPS	VOLT CODE	CONTROLLER	OPTIONAL ACCESSORY	ENCLOSURE CODE
H	3ATS 3NTS	A B BLANK FOR NONE	3	800 1000 1200	C D E F H J K L M N P Q R	G	X BLANK FOR NONE	C E F G H J K L M N P Q BLANK FOR OPEN TYPE

EXPLANATION OF CATALOG NUMBER CODES

CATALOG TYPE		NEUTRAL TYPE		VOLTAGE CODES 3 PHASE (3 OR 4 WIRE) 50 OR 60 Hz		ENCLOSURE CODES		
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	NOMINAL VOLTAGE	CODE	TYPE	DESCRIPTION
3ATS 3NTS	AUTOMATIC MANUAL	A B	SOLID SWITCHING			BLANK		OPEN TYPE (NO ENCLOSURE)
				C	208	C	1	GENERAL PURPOSE, INDOOR
				D	220	E	2	INDOOR, WATER & DUST RESISTANT
				E	230	F	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT
				F	240	G	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT
						H	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)
						J	4X	TYPE 4 PLUS CORROSION RESISTANCE (FIBERGLASS)
				H	380	K	7	EXPLOSION PROOF
				J	400	L	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT
				K	415			
				L	440			
				M	460			(SECURE ENCLOSURES)
				N	480	M	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT
				P	550	N	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT
				Q	575	P	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)
				R	600	Q	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT

CATALOG NUMBER
ASCO® CERTIFIED TO
S.O.
BY
DATE

FORM REV H

PROJECT NAME:

WIRING DIAGRAM
300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS
"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055

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COMPUTER GENERATED DRAWING

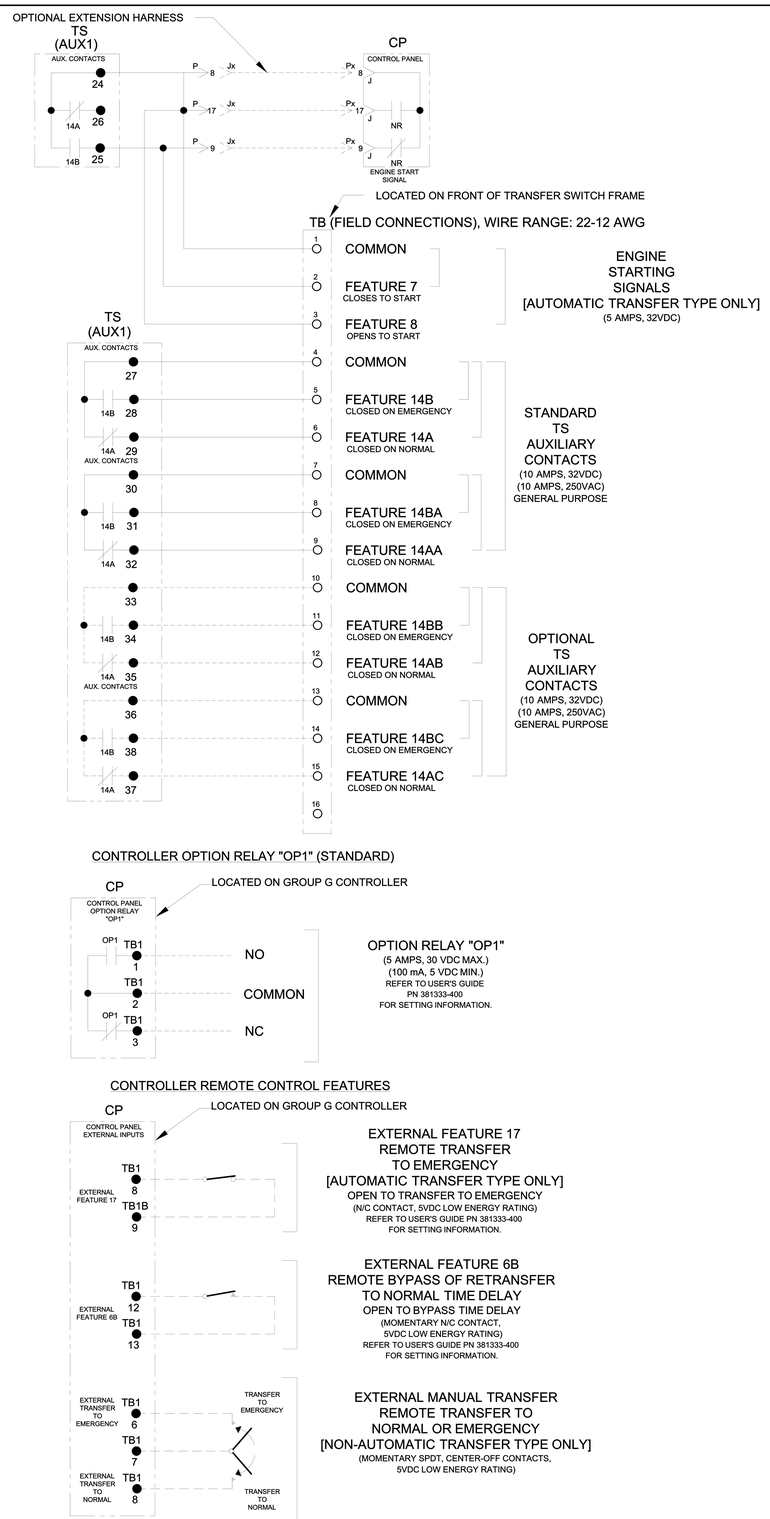
SCALE NONE SIZE DS

DWG. NO.
1001657

DRAWING REV. H ECN NO. 317801 SHEET 1 OF 6

REV. TO SHEET	ECN NO.	BY	APP.	DATE
H	317801	SVM	SVM	09/15/25
	SEE ECN			
G	278250	TR	BK	04/22/19
	SEE ECN			
F	275211	TR	BK	10/15/18
	SEE ECN			
E	255133	TR	BK	6/4/15
	SEE ECN (REMOVED 600A)			
D	248402	AE	BK	
	SEE ECN			
C	247772	SDH	SDH	4/14/14
	SEE ECN			
B	246325	AE	BK	01/16/14
	SEE ECN			
A	245959	BK	BK	12/23/13
	SEE ECN			
-	245204	BK	BK	11/07/13
	ISSUE			

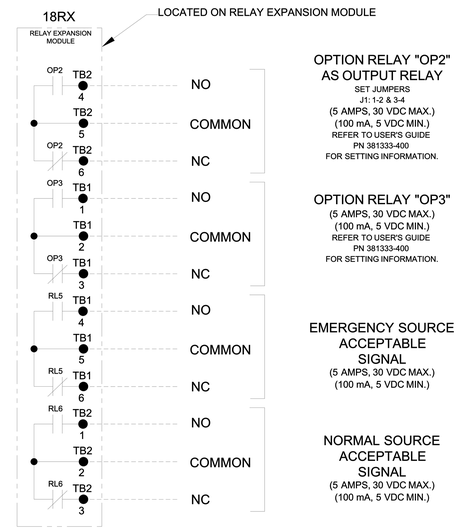
FIELD CONNECTIONS



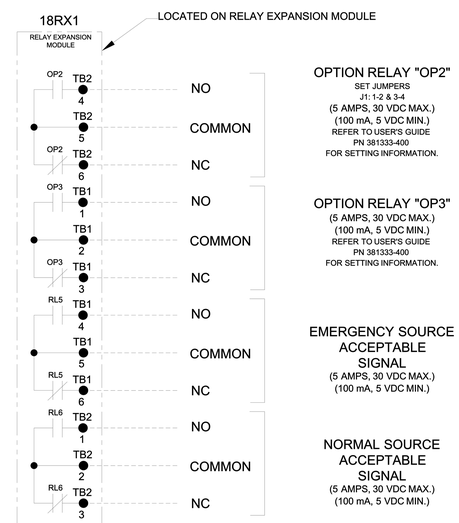
CONTROLLER OPTION RELAY "OP1" (STANDARD)

CONTROLLER REMOTE CONTROL FEATURES

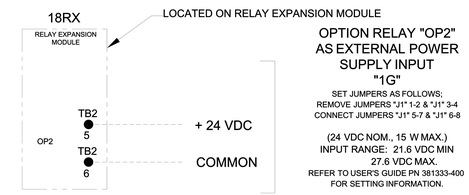
OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE)



OPTIONAL ACCESSORY 18RX1 (SECOND RELAY EXPANSION MODULE)

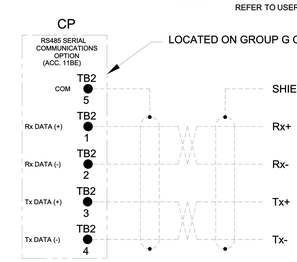


"OP2" OPTIONAL USES



RS485 SERIAL COMMUNICATIONS OPTION

AVAILABLE WITH OPTIONAL ACCESSORY 11BE: ADVANCED-FUNCTION SOFTWARE BUNDLE
REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.



NOTES:
1. EARTH GROUND SHIELD AT HOST DEVICE ONLY.
2. FIELD WIRING: USE UL LISTED, STRANDED, TWISTED PAIRS, OVERALL FOIL SHIELD WITH STRANDED DRAIN WIRE SUITABLE FOR RS422 EQUIVALENT TO:

(STANDARD 80°C) BELDEN 9842 OR 9829 OR ALPHA 6202C OR 6222C

(PLENUM RATED) BELDEN 89729 OR 82729 OR ALPHA 58902

REV. TO SHEET	ECN NO.	BY	APP.	DATE
H	317801 SEE ECN	SVM	SVM	09/15/25
G	278250 SEE ECN	TR	BK	04/22/19
F	275211 SEE ECN	TR	BK	10/15/18
E	255133 SEE ECN (REMOVED 600A)	TR	BK	6/4/15
D	248402 SEE ECN	AE	BK	
C	247772 SEE ECN	SDH	SDH	4/14/14
B	246325 SEE ECN	AE	BK	01/16/14
A	245959 SEE ECN	BK	BK	12/23/13
-	245204 ISSUE	BK	BK	11/07/13

PROJECT NAME:

WIRING DIAGRAM
300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS
"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

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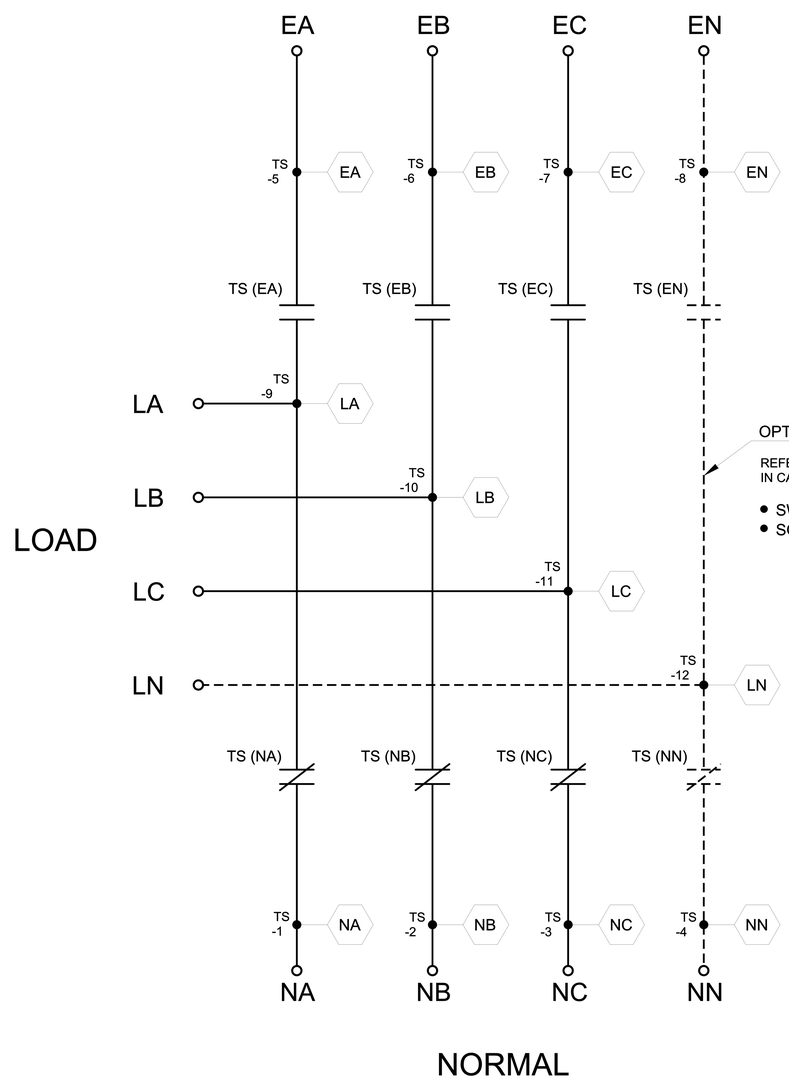
DWG. NO. 1001657

DRAWING REV. H ECN NO. 317801 SHEET 2 OF 6

MAIN POWER POLES



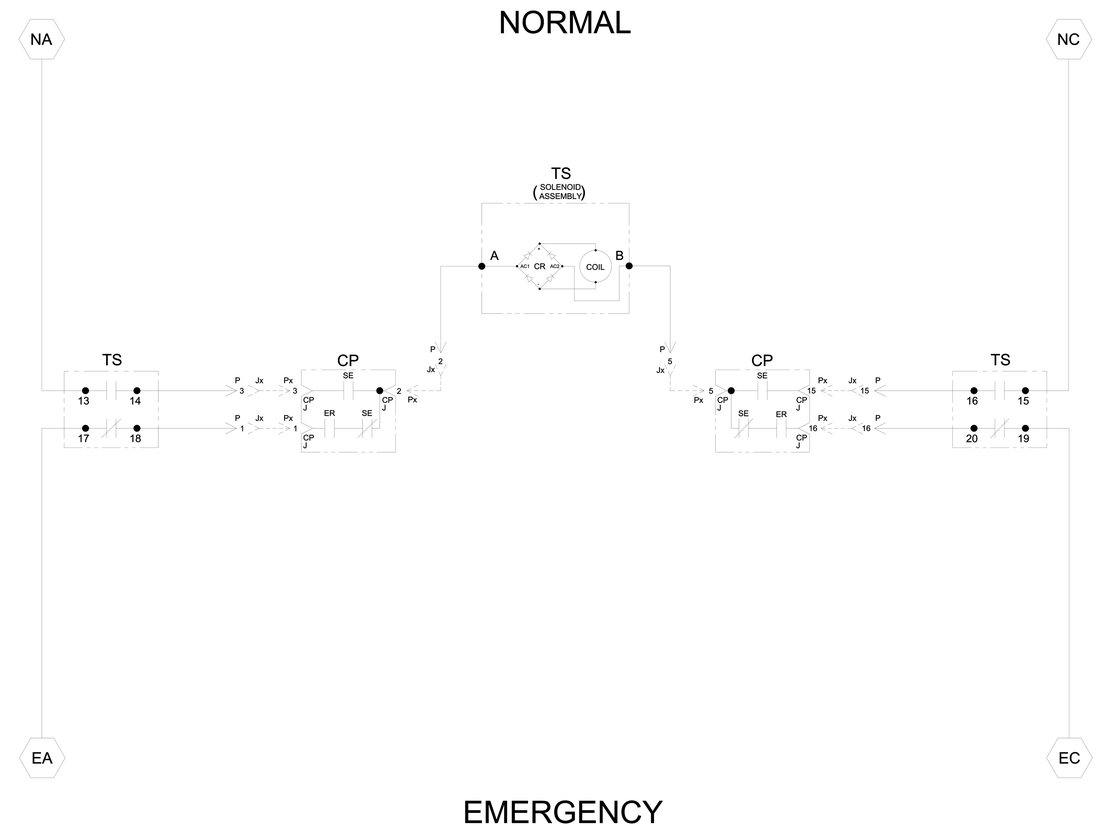
OPTIONAL NEUTRAL TYPES

REFER TO "EXPLANATION OF CATALOG NUMBER CODES" IN CATALOG NUMBER CHART ON SHEET 1.

- SWITCHING CONTACTS
- SOLID BUS PLATE

NOTE:
ATS/NTS SHOWN CLOSED ON NORMAL SOURCE.

TS OPERATOR CIRCUIT



TS CONTROL CONTACTS					
TS	SOLENOID POSITION				
	CLOSED NORMAL	BEFORE TDC▶	>	<	BEFORE ◀TDC	CLOSED EMERG
13-14					
15-16					
17-18					
19-20					

TDC (TOP DEAD CENTER)
TRANSFER SWITCH TEST & ADJUSTMENT PROCEDURE SPECIFIES CONTROL CUT-OFF (CONTACT OPENING) SETTING.

REV. TO SHEET	ECN NO.	BY	APP.	DATE
H	317801 SEE ECN	SVM	SVM	09/15/25
G	278250 SEE ECN	TR	BK	04/22/19
F	275211 SEE ECN	TR	BK	10/15/18
E	255133 SEE ECN	TR	BK	6/4/15 (REMOVED 600A)
D	248402 SEE ECN	AE	BK	
C	247772 SEE ECN	SDH	SDH	4/14/14
B	246325 SEE ECN	AE	BK	01/16/14
A	245959 SEE ECN	BK	BK	12/23/13
-	245204 ISSUE	BK	BK	11/07/13

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS
"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

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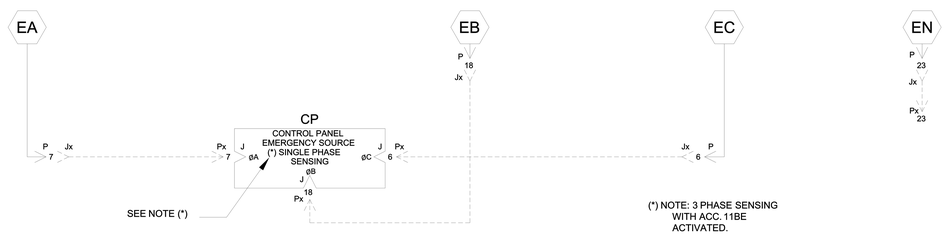
SCALE NONE SIZE DS

DWG. NO. 1001657

DRAWING REV. H ECN NO. 317801 SHEET 3 OF 6

EMERGENCY SOURCE CIRCUITS

EMERGENCY

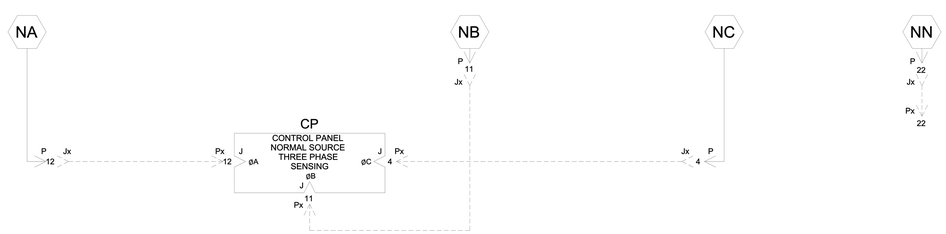


LOAD TERMINAL CIRCUITS

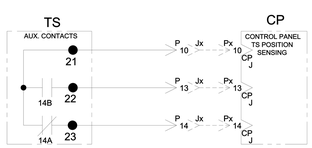
LOAD

NORMAL SOURCE CIRCUITS

NORMAL



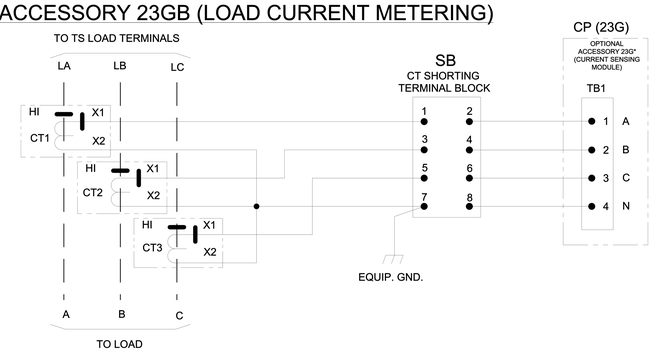
CONTROL CIRCUITS



ADDITIONAL CIRCUITS

OPTIONAL ACCESSORY 23GB (LOAD CURRENT METERING)

CURRENT TRANSFORMER RATIO TABLE	
SWITCH RATING	CT RATIO
800A	800:5A
1000A	1200:5A
1200A	



H	317801	SVM	SVM	09/15/25
	SEE ECN			
G	278250	TR	BK	04/22/19
	SEE ECN			
F	275211	TR	BK	10/15/18
	SEE ECN			
E	255133	TR	BK	6/4/15
	SEE ECN (REMOVED 600A)			
D	248402	AE	BK	
	SEE ECN			
C	247772	SDH	SDH	4/14/14
	SEE ECN			
B	246325	AE	BK	01/16/14
	SEE ECN			
A	245959	BK	BK	12/23/13
	SEE ECN			
-	245204	BK	BK	11/07/13
	ISSUE			

PROJECT NAME:

REV. TO SHEET	ECN NO.	BY	APP.	DATE

WIRING DIAGRAM

300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS

"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

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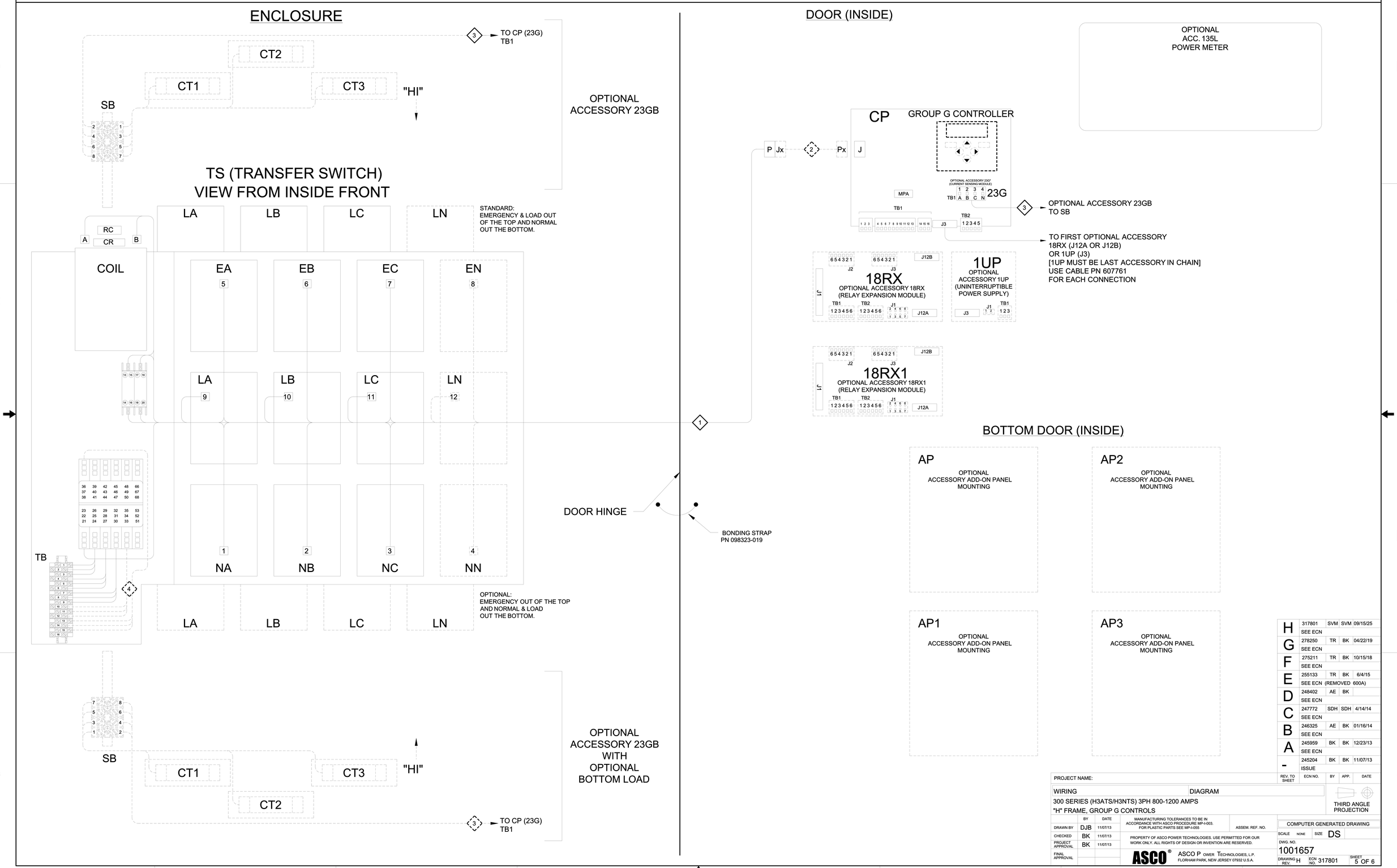
SCALE NONE SIZE DS

DWG. NO. 1001657

DRAWING REV. H ECN NO. 317801 SHEET 4 OF 6

PHYSICAL DIAGRAM



H	317801	SVM	SVM	09/15/25
	SEE ECN			
G	278250	TR	BK	04/22/19
	SEE ECN			
F	275211	TR	BK	10/15/18
	SEE ECN			
E	255133	TR	BK	6/4/15
	SEE ECN (REMOVED 600A)			
D	248402	AE	BK	
	SEE ECN			
C	247772	SDH	SDH	4/14/14
	SEE ECN			
B	246325	AE	BK	01/16/14
	SEE ECN			
A	245959	BK	BK	12/23/13
	SEE ECN			
-	245204	BK	BK	11/07/13
	ISSUE			

REV. TO SHEET | ECN NO. | BY | APP. | DATE

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS

"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

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COMPUTER GENERATED DRAWING

SCALE NONE | SIZE DS

DWG. NO. 1001657

DRAWING REV. H | ECN NO. 317801 | SHEET 5 OF 6

WIRE RUN LISTING

1 HARNESS LOCATOR

BOX CHECKED IF HARNESS IS MODIFIED ☒

WIRE No.	HARNESS 713082 (P) MAIN TS	CLR	AWG
1	P-1,TS-18		16
2	P-2,TS-A		
3	P-3,TS-14		
4	P-4,TS-3		
4	TS-3,TS-15		
5	P-5,TS-B		
6	P-6,TS-7		
6	TS-7,TS-19		
7	P-7,TS-5		
7	TS-5,TS-17		
8	P-8,TS-24		
8	TS-24,TB-1		
9	P-9,TS-25		
9	TS-25,TB-2		
10	P-10,TS-21		
11	P-11,TS-2		
12	P-12,TS-1		
12	TS-1,TS-13		
13	P-13,TS-22		
14	P-14,TS-23		
15	P-15,TS-16		
16	P-16,TS-20		
17	P-17,TB-3		
18	P-18,TS-6		
19	P-19,TS-9		
20	P-20,TS-10		
21	P-21,TS-11		
22	P-22,TS-4		
23	P-23,TS-8		
24	P-24,TS-12		
25	TS-27,TB-4		
26	TS-28,TB-5		
27	TS-29,TB-6		
	ADD WIRES		
31	TS-30,TB-7		
32	TS-31,TB-8		
33	TS-32,TB-9		

2 HARNESS LOCATOR

BOX CHECKED IF HARNESS IS MODIFIED ☐

WIRE No.	HARNESS 309320-005 (Px,Jx OPTIONAL 8" EXTENSION HARNESS	CLR	AWG
1	Px-1,Jx-1		16
2	Px-2,Jx-2		
3	Px-3,Jx-3		
4	Px-4,Jx-4		
5	Px-5,Jx-5		
6	Px-6,Jx-6		
7	Px-7,Jx-7		
8	Px-8,Jx-8		
9	Px-9,Jx-9		
10	Px-10,Jx-10		
11	Px-11,Jx-11		
12	Px-12,Jx-12		
13	Px-13,Jx-13		
14	Px-14,Jx-14		
15	Px-15,Jx-15		
16	Px-16,Jx-16		
17	Px-17,Jx-17		
18	Px-18,Jx-18		
19	Px-19,Jx-19		
20	Px-20,Jx-20		
21	Px-21,Jx-21		
22	Px-22,Jx-22		
23	Px-23,Jx-23		
24	Px-24,Jx-24		
	REMOVE WIRES		
	ADD WIRES		

3 HARNESS LOCATOR

WIRE No.	OPTIONAL ACCESSORY 23GB (CT,SB,CP(23G)-TB1)	CLR	AWG
300	CT1-X1,SB-1		16
301	CT2-X1,SB-3		
302	CT3-X1,SB-5		
300	SB-2,CP(23G)-TB1-1		
301	SB-4,CP(23G)-TB1-2		
302	SB-6,CP(23G)-TB1-3		
303	CT1-X2,CT2-X2	GRN	
303	CT2-X2,CT3-X2	GRN	
303	CT3-X2,SB-7	GRN	
303	SB-7,EQUIP-GND	GRN	
303	SB-8,CP(23G)-TB1-4	GRN	

4 HARNESS LOCATOR

BOX CHECKED IF HARNESS IS MODIFIED ☐

WIRE No.	OPTIONAL AUX. CONTACTS	CLR	AWG
35	TB-10,TS(AUX1)-33		16
36	TB-11,TS(AUX1)-34		
37	TB-12,TS(AUX1)-35		
38	TB-13,TS(AUX1)-36		
39	TB-14,TS(AUX1)-38		
40	TB-15,TS(AUX1)-37		

WIRE No.	ADDITIONAL WIRES	CLR	AWG
			16

H	317801	SVM	SVM	09/15/25
	SEE ECN			
G	278250	TR	BK	04/22/19
	SEE ECN			
F	275211	TR	BK	10/15/18
	SEE ECN			
E	255133	TR	BK	6/4/15
	SEE ECN (REMOVED 600A)			
D	248402	AE	BK	
	SEE ECN			
C	247772	SDH	SDH	4/14/14
	SEE ECN			
B	246325	AE	BK	01/16/14
	SEE ECN			
A	245959	BK	BK	12/23/13
	SEE ECN			
-	245204	BK	BK	11/07/13
	ISSUE			

PROJECT NAME:

REV. TO SHEET	ECN NO.	BY	APP.	DATE

WIRING DIAGRAM

300 SERIES (H3ATS/H3NTS) 3PH 800-1200 AMPS

"H" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DJB	11/07/13
CHECKED	BK	11/07/13
PROJECT APPROVAL	BK	11/07/13
FINAL APPROVAL		

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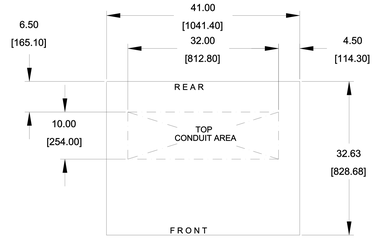
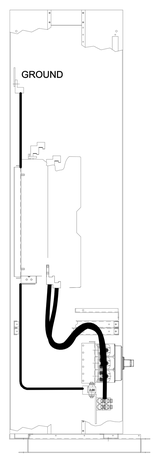
SCALE NONE SIZE DS

DWG. NO. 1001657

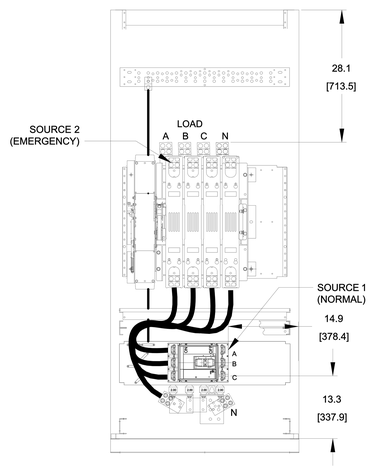
DRAWING REV. H ECN NO. 317801 SHEET 6 OF 6



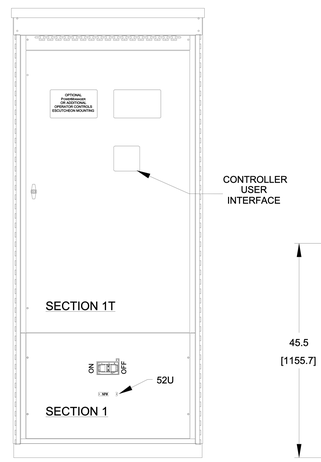
TOP VIEW



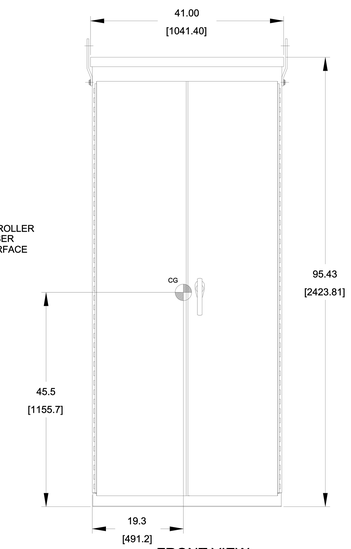
LEFT SIDE VIEW
WITHOUT COVER



FRONT VIEW
WITHOUT COVER



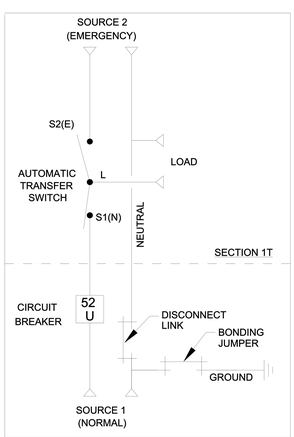
FRONT VIEW
WITHOUT DOORS



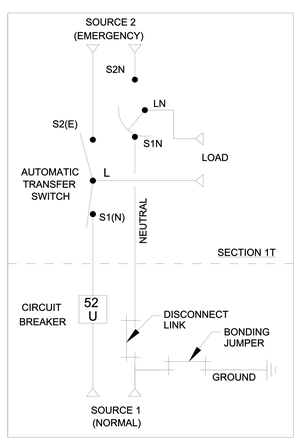
FRONT VIEW

RIGHT SIDE VIEW

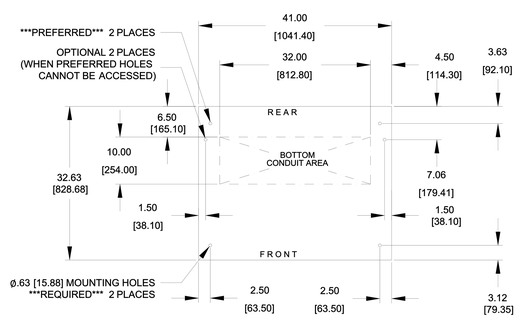
ONE LINE DIAGRAMS



(WITH SOLID NEUTRAL)



(WITH SWITCHED/OVERLAPPING NEUTRAL)



PLAN VIEW

SEE TABLE 1 FOR METRIC TERMINATIONS

TABLE 1	
14 AWG	2.5mm²
6 AWG	16mm²
4 AWG	25mm²
1/0 AWG	50mm²
2/0 AWG	70mm²
3/0 AWG	95mm²
4/0 AWG	120mm²
250 MCM	120mm²
300 MCM	150mm²
350 MCM	185mm²
400 MCM	240mm²
500 MCM	240mm²
600 MCM	300mm²
750 MCM	400mm²

GENERAL NOTES

1. FLOOR MOUNTED ENCLOSURE.
   TYPE 3R (M) CONSTRUCTED FROM CODE GAUGE STEEL.
   FINISH: ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
   TYPE 3RX (R) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 304 STAINLESS STEEL.
   TYPE 3RX (S) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 316 STAINLESS STEEL.
2. EXTERIOR DOOR HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 36 [914.4] REAR: NONE.
5. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS [61 N m] BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS [27 N m].
6. SECTION 1 & SECTION 1T SHIP AS 1 UNIT.
7. ● CENTER OF GRAVITY.
8. APPROXIMATE WEIGHT: 1350 LBS [612 KG].

SYSTEM NOTES

1. SYSTEM RATING: 800 AMPS.
   SOURCE 1 (NORMAL) SHORT CIRCUIT RATING: 50,000 RMS SYM @ 240V, 600V.
   65,000 RMS SYM @ 480V.
   SOURCE 2 (EMERGENCY) SHORT CIRCUIT RATING: 50,000 RMS SYM @ 240V, 480V, 600V.
   SOURCE 2 (EMERGENCY) SHORT CIRCUIT RATING MAY BE INCREASED BY UTILIZING A SPECIFIC OVERCURRENT PROTECTIVE DEVICE AS LISTED ON THE TRANSFER SWITCH.
2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
3. GROUND: AS PER NEC.
4. NEUTRAL: 100% RATED.
5. APPLICABLE LABEL(S): U.L. 891, SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

TRANSFER SWITCH

1. H FRAME AUTOMATIC/NON-AUTOMATIC TRANSFER SWITCH.
2. TRANSFER SWITCH RATING: 800 AMPS.
3. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS.
   A. SOLID NEUTRAL
   B. SWITCHED NEUTRAL POLE
   C. OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON ADTS, ACTS, NDTS & NCTS UNITS)
4. UL 1008 OR CSA C22.2 No. 178.1

TERMINATIONS 800A

1. SWITCH CAN BE SUPPLIED WITHOUT LUGS (SEE SHEET 2).
   A. SOURCE 2 (EMERGENCY), LOAD AND GROUND LUG KITS ARE ORDERED SEPARATELY.
2. MECHANICAL (SCREW TYPE) LUGS FOR COPPER (CU) OR ALUMINUM (AL) CABLE WHEN ORDERED WITH SWITCH.
   SOURCE 1 (NORMAL): (3) 3/0-500MCM PER PHASE & NEUTRAL
   LOAD: (4) 1/0-600MCM PER PHASE & NEUTRAL
   SOURCE 2 (EMERGENCY): (4) 1/0-600MCM PER PHASE & NEUTRAL
   GROUND: (12) 1/0-600MCM
   A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.

CIRCUIT BREAKER: ITEM 52U

1. SQUARE "D" 80% RATED TYPE 'MJL' MOLDED CASE CIRCUIT BREAKER 800AF/800AT. ELECTRONIC TRIP UNIT WITH A FIXED LONG TIME AND AN ADJUSTABLE INSTANTANEOUS SETTING AVAILABLE UPON REQUEST.
2. U.L. 489

WIRING/CABLING

1. USE 90°C MINIMUM CU/AL WIRE FOR POWER CABLES.
2. WIRE SIZE TO BE BASED ON AMPACITY OF 75°C WIRE.
3. USE 60°C MINIMUM CU WIRE FOR CONTROLS.

REV. TO SHEET	ECN NO.	BY	APP.	DATE
G	317803 SEE ECN	SV	SV	09-26-25
F	306549 SEE ECN	RP	MCH	11/30/23

PROJECT NAME:

OUTLINE MOUNTING

HAUS 800A, MJL SERVICE ENTRANCE BREAKER
TYPE 3R/3RX 95.5 X 41 X 33

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	SV	09-26-25
CHECKED	JPB	09-26-25
PROJECT APPROVAL		
FINAL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055

ASSEM. REF. NO.

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

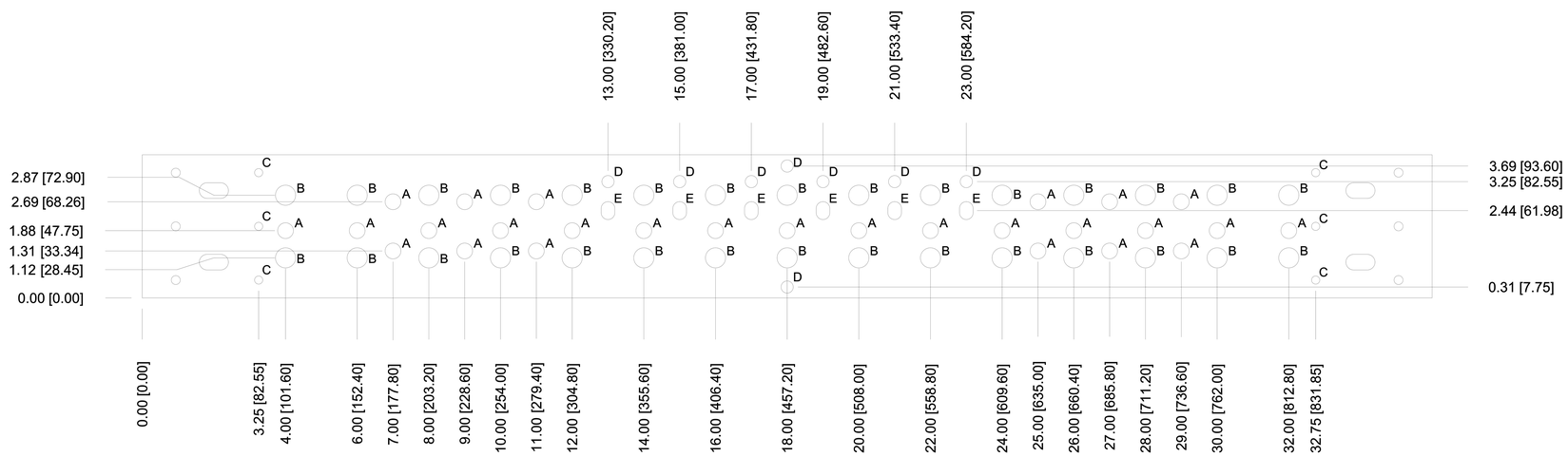
COMPUTER GENERATED DRAWING

SCALE 1/16" = 1" SIZE DS

DWG. NO. 882322-002

DRAWING REV. G ECN NO. 317803 SHEET 1 OF 3

DIMENSION ARE IN INCHES [MILLIMETERS]



REV. TO SHEET	ECN NO.	BY	APP.	DATE
G	317803	SV	SV	09-26-25
	SEE ECN			
F	306549	RP	MCH	11/30/23
	SEE ECN			

HOLE DATA	
E	0.375 [9.525] WIDE X 0.50 [12.70] SLOT
D	0.340 [8.636] DIA.
C	0.228 [5.791] DIA.
B	0.562 [14.275] DIA.
A	0.437 [11.099] DIA.

DIMENSION ARE IN INCHES [MILLIMETERS]

PROJECT NAME:

HAUS 800A

GROUND TERMINATION DETAILS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	SV	09-26-25
CHECKED	JPB	09-26-25
PROJECT APPROVAL		
FINAL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055

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COMPUTER GENERATED DRAWING

SCALE 1/4" = 1" SIZE BS

DWG. NO.
882322-002

DRAWING REV. G ECN NO. 317803 SHEET 3 OF 3

EQUIPMENT STORAGE REQUIREMENTS

Equipment provided by Schneider-Electric and/or ASCO Power Technologies that is stored for a short-term duration (i.e., days to weeks) or long-term duration (i.e., months to years), must be kept in a cool, dry, temperature-controlled environment. Storage of equipment in open warehouses, locations without proper temperature and humidity control, and/or outdoor storage is not acceptable without the utilization of heating elements, thermostats, humidistats, and protection from weather and dirt. Failure to comply may result in moisture ingress and/or condensation to form resulting in rusting and or corrosion, component and/or equipment failure and replacement, and/or nullification of any manufacturer warranty.

For **General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less**, refer to ANSI NEMA PB 2.1-2013

Copies of the following documents should be included on the submittals, depending on the units that are on the proposal:

For ASCO Power Technology's **Switchgear and Switchboards**, refer to Instruction Bulletin **381333-393**.
For Schneider-Electric/Square D's **Power Zone 4 (PZ4) Switchgear**, refer to Instruction Bulletin **80298-002-09**.
For Schneider-Electric/Square D's **Power Zone 4 (PZ4) NEMA 3R Walk-In Switchgear**, refer to Instruction Bulletin **80298-156-02**.
For Schneider-Electric/Square D's **Quality, Efficient, Delivery" (QED2) Switchboard**, refer to Instruction Bulletin **80043-055-14**.
For Schneider-Electric/Square D's **Masterclad Metal-Clad Indoor Switchgear**, refer to Instruction Bulletin **6055-30.**

ASCO Power Technologies™

SERIES 300 Service Entrance Power Transfer Switch

Data Sheet

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the disconnecting, grounding, and bonding required for use as service entrance equipment. It meets all National Electrical Code® requirements for service entrance use.

ASCO SERIES 300
SE Rated 800 amperes Type 1 enclosure

ASCO SERIES 300
SE Rated 200 amperes in Type 3R enclosure

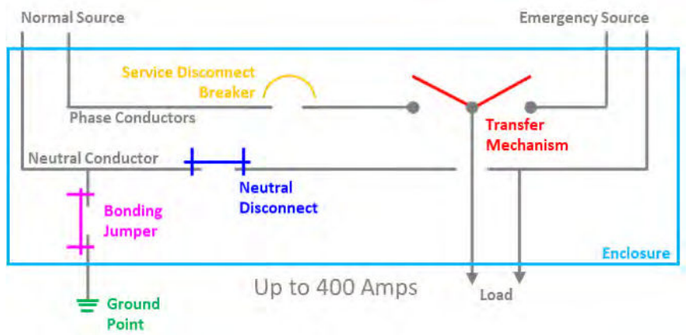
Product Features:

- Sizes available from 70 - 3000 amps, 600 VAC, 50 or 60 Hz, single or 3-phase
- 70 - 400 Ampere listed to UL 1008
- 600 - 3000 Ampere listed to UL 891
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Silver plated copper ground and neutral bus with solderless screw type terminals
- Ground fault trip protection provided on 1000 amps and above
- Available with solid or switched neutral
- Line side breaker barriers available in compliance with NEC2020

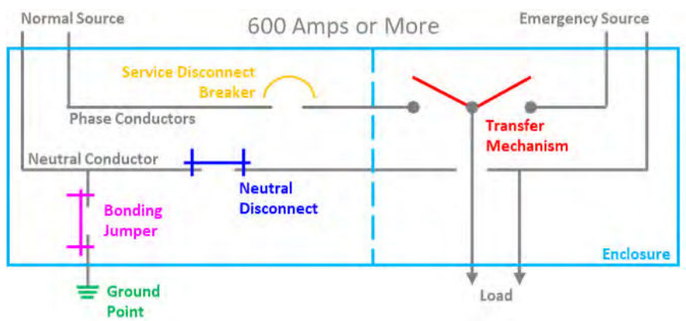
Life Is On | Schneider Electric

Construction

Products 400 amperes or less, utilize a single enclosure, including a service disconnect circuit breaker, as well as the transfer switch and grounding and bonding provisions.



Products 600 amperes and above provide a service equipment section containing the service disconnect circuit breaker as well as grounding and bonding provisions. A second section contains the power transfer switch.



For additional detail, see the interactive 3-D view in the ASCO Digital Hub.

Order Information

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

J	+	03AUS	+	B	+	3	+	0600	+	N	+	GX	+	C
Frame		Product Type		Neutral Code		Phase Poles		Amperes Continous Rating		Voltage Code		Controller Code		Enclosure
D = 70 - 225 Amp J = 150 - 600 Amp 150A - 225A: 3ADUS/3NDUS Only H = 800 - 1200 Amp G = 1600 - 3000 Amp		03AUS = Automatic 03NUS = Non-Automatic 3ADUS = Automatic Delayed Transition 3NDUS = Non-Automatic, Delayed Transition		A = Solid Neutral B = Switched Neutral		2 3		0070, 0100, 0150, 0200, 0225[3], 0250[3], 0400, 0600, 0800, 1000, 1200, 1600, 2000 2500, 3000		C = 208 D = 220 E = 230 F = 240 H = 380 J = 400 K = 415 L = 440 M = 460 N = 480 P = 550 Q = 575 R = 600		G = No Optional Accessories GX = Optional Accessories		C = Type 1 (Standard) M = Type 3R Secure Double Door N = Type 4[1] Secure Double Door Q = Type 12[1] Secure Double Door V = Type 4X[4,5] Secure Double Door 316 SS

Notes:
1. Available for 70-1600 amperes, use type 3R for 2000-3000 ampere applications.
2. A solid neutral is provided as standard.
3. 200, 225 ampere rated switches suitable for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.
4. Type 316 stainless steel is the standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
5. Available only on switches rated 70 - 1600 amperes.

Specifications

ASCO SERIES 300SE Power Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure[4]

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm) Width	Height	Depth	Approx. Shipping Weight Lb. (kg)
70, 100, 150, 200, 225	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
	2	B	36 (914)	48 (1219)	13 (330)	410 (189)
	3	A	36 (914)	48 (1219)	13 (330)	410 (189)
	3	B	36 (914)	48 (1219)	13 (330)	430 (198)
150, 200, 225, Series 3ADUS/3NDUS Only	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
	2	B	36 (914)	48 (1219)	13 (330)	408 (188)
	3	A	36 (914)	48 (1219)	13 (330)	408 (188)
	3	B	36 (914)	48 (1219)	13 (330)	420 (193)
2501, 4001	2	A	42 (1067)	48 (1219)	15.5 (394)	420 (193)
	2	B	42 (1067)	48 (1219)	15.5 (394)	430 (198)
	3	A	42 (1067)	48 (1219)	15.5 (394)	430 (198)
	3	B	42 (1067)	48 (1219)	15.5 (394)	450 (207)
6001	2	A	38 (965)	91 (2311)	28 (711)	860 (396)
	2	B	38 (965)	91 (2311)	28 (711)	870 (401)
	3	A	38 (965)	91 (2311)	28 (711)	870 (401)
	3	B	38 (965)	91 (2311)	28 (711)	880 (405)
8001	2	A	38 (965)	91 (2311)	28 (711)	1460 (673)
	2	B	38 (965)	91 (2311)	28 (711)	1470 (677)
	3	A	38 (965)	91 (2311)	28 (711)	1470 (677)
	3	B	38 (965)	91 (2311)	28 (711)	1480 (682)
10001, 12001	2	A	38 (965)	91 (2311)	48 (1218)	1460 (673)
	2	B	38 (965)	91 (2311)	48 (1218)	1470 (677)
	3	A	38 (965)	91 (2311)	48 (1218)	1470 (677)
	3	B	38 (965)	91 (2311)	48 (1218)	1480 (682)
16001, 20001	3	A	38 (965)	91 (2311)	48 (1218)	1580 (727)
	3	B	38 (965)	91 (2311)	48 (1218)	1680 (773)
25001, 30001	3	A	38 (965)	91 (2311)	72 (1829)	4590 (2111)
	3	B	38 (965)	91 (2311)	72 (1829)	4690 (2157)

UL Type 3R Enclosure[4]

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm) Width	Height	Depth	Approx. Shipping Weight Lb. (kg)
70, 100, 150, 200, 225	2	A	36 (914)	48 (1219)	16 (406)	500 (232)
	2	B	36 (914)	48 (1219)	16 (406)	520 (241)
	3	A	36 (914)	48 (1219)	16 (406)	520 (241)
	3	B	36 (914)	48 (1219)	16 (406)	530 (246)
150, 200, 225, Series 3ADUS/3NDUS Only	2	A	41 (1041)	95.5 (2424)	33 (838)	500 (232)
	2	B	41 (1041)	95.5 (2424)	33 (838)	520 (241)
	3	A	41 (1041)	95.5 (2424)	33 (838)	520 (241)
	3	B	41 (1041)	95.5 (2424)	33 (838)	530 (246)
2501, 4001	2	A	42 (1067)	48 (1219)	18 (487)	500 (232)
	2	B	42 (1067)	48 (1219)	18 (487)	520 (241)
	3	A	42 (1067)	48 (1219)	18 (487)	520 (241)
	3	B	42 (1067)	48 (1219)	18 (487)	530 (246)
6001	2	A	41 (1041)	95.5 (2425)	33 (838)	1200 (555)
	2	B	41 (1041)	95.5 (2425)	33 (838)	1220 (564)
	3	A	41 (1041)	95.5 (2425)	33 (838)	1220 (564)
	3	B	41 (1041)	95.5 (2425)	33 (838)	1240 (574)
8001	2	A	38 (965)	91 (2311)	28 (711)	1520 (703)
	2	B	38 (965)	91 (2311)	28 (711)	1540 (712)
	3	A	38 (965)	91 (2311)	28 (711)	1540 (712)
	3	B	38 (965)	91 (2311)	28 (711)	1580 (731)
10001, 12001	2	A	38 (965)	91 (2311)	48 (1218)	1520 (703)
	2	B	38 (965)	91 (2311)	48 (1218)	1540 (712)
	3	A	38 (965)	91 (2311)	48 (1218)	1540 (712)
	3	B	38 (965)	91 (2311)	48 (1218)	1580 (731)
16001, 20001	3	A	38 (965)	91 (2311)	48 (1218)	2200 (1018)
	3	B	38 (965)	91 (2311)	48 (1218)	2240 (1036)
25001, 30001	3	A	38 (965)	91 (2311)	72 (1829)	5280 (2479)
	3	B	38 (965)	91 (2311)	72 (1829)	5380 (2475)

Notes:
1. Unit is designed for top and bottom cable entry for all services and load.
2. Enclosures for 600 – 3000 amps are freestanding.
3. A space heater accessory 44G is required with all service entrance (Type 3R) switches to help reduce condensation and protect the circuit breaker. It is recommended when environmental enclosures (Type 4, 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G).
4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

Series 300SE External Power Connections

Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of AL-CU Wire Sizes
70, 100, 150, 200[2], 225[2]	One #14 to 4/0 AWG
150[3], 200[3], 225[3], 250, 400	One #4 AWG to 600 MCM Two 1/0 to 250 MCM
600	Two 1/0 to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2500	Twelve 3/0 to 750 MCM
3000	Twelve 3/0 to 750 MCM

Notes:
1. All SERIES 300 switches default to a solid neutral assembly unless a switched neutral is specified. If no neutral is required, order as solid neutral and left unwired.
2. 200 and 225 ampere rated switches for use with copper cable only. Refer to paragraph 310.15 of the NEC for all additional information.
3. J 150-225 ampere for Series 3ADUS/3NDUS only.
4. Use wire rated 75 degrees minimum for all power connections.
5. Refer to the outline drawing for maximum power cable connections for circuit breaker.

Extended Warranties for Series 300SE Transfer Switches (3AUS/3NUS/3ADUS/3NDUS)

Description
1 Year Extension (Total of 3 Years)
2 Year Extension (Total of 4 Years)
3 Year Extension (Total of 5 Years)

Notes:
1. Standard warranty is (24) months, 2 years from date of shipment, extended warranty is in addition to the two years, for a total of 3, 4 or 5 years, except where the warranty period for the circuit breaker shall be limited to 24 months from date of shipment from ASCO.
2. Refer to Publication 3223 for warranty terms and conditions.

Series 300SE AIC Breaker Rating[1]

Switch Rating	AIC Rating (kA)	Voltage
70, 100, 150, 200, 225	85	480
150, 200, 225 Series 3ADUS/3NDUS Only	85	480
250, 400, 600	85	480
800	65	480
1000, 1200	50	480
1600, 2000	65	480
2500, 3000	100	480

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