

## 200A ATS Submittal

Transfer Switch Details

#3	ATS	AMPS: 0200	QTY: 2
Product	: Series 300	Catalog Number	: D03AUSB30200NGXM
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:	: See WCR Table Below	No. of Cables & Lug Size	: See Applicable Outline Drawing
Frame = D, Switch Rating = 0200, Series = 300			
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



C



B

A

D	010813	MCH	0-07-05
	SEE ECH		
C	010000	TAA	0-0-05
	SEE ECH		
B	000001	LAM	MCH 000004
	SEE ECH		
A	000703	NRK	MCH 100003
	SEE ECH		
-	000000	FP	MCH 00-11-03
	SEE ECH		
REVISED	BY	DATE	
BY			
 THIRD ANGLE PROJECTION			
COMPUTER GENERATED DRAWING			
SCALE	8000:1	DS	
DWG NO.	1622770-003		
DRAWN BY	REV	DATE	1 OF 1

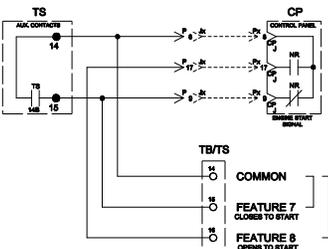
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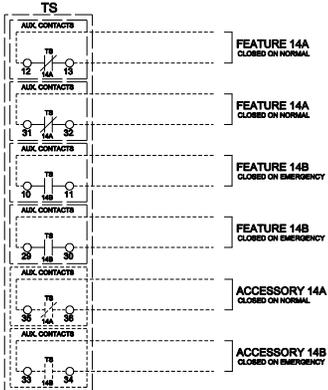
# FIELD CONNECTIONS

8      7      6      5      ↓      4      3      2      1

D



**ENGINE STARTING SIGNALS**  
[AUTOMATIC TRANSFER TYPE ONLY]  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)

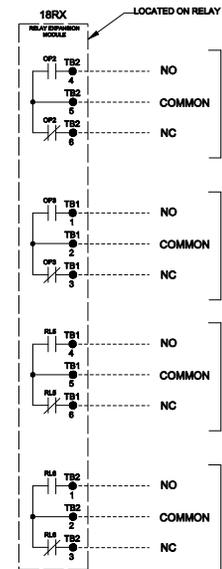


**TS AUXILIARY CONTACTS**  
FEATURE 14AA & 14AB  
(10 AMPS, 30VDC)  
GENERAL PURPOSE

**OPTIONAL TS AUXILIARY CONTACTS**  
ACCESSORY 14AA & 14AB  
(10 AMPS, 30VDC)  
GENERAL PURPOSE

C

### OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE)

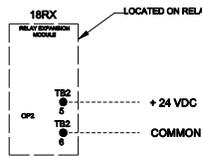


**OPTION RELAY "OP2" AS OUTPUT RELAY**  
SET JUMPERS J1: 1-2 & 3-4  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**OPTION RELAY "OP3"**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

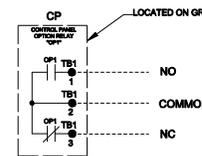
**EMERGENCY SOURCE ACCEPTABLE SIGNAL**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)

**NORMAL SOURCE ACCEPTABLE SIGNAL**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)



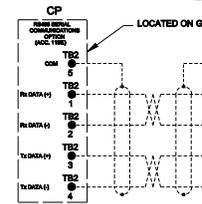
**OPTION RELAY "OP2" AS EXTERNAL POWER SUPPLY INPUT "1G"**  
SET JUMPERS AS FOLLOWS:  
REMOVE JUMPERS J1: 1-2 & J1: 3-4  
CONNECT JUMPERS J1: 1-3 & J1: 3-4  
(24 VDC NOM., 15 W MAX.)  
INPUT RANGE: 21.5 VDC MIN.  
27.5 VDC MAX.  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

### CONTROLLER OPTION RELAY "OP1" (STANDARD)



**OPTION RELAY "OP1"**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

### RS485 SERIAL COMMUNICATIONS OPTION

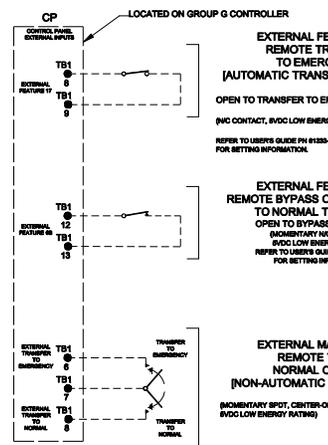


AVAILABLE WITH OPTIONAL ACCESSORY 118E, ADVANCED-FUNCTION SOFTWARE BUNDLE  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**NOTES:**  
1. EARTH GROUND SHIELD AT HUB DEVICE ONLY.  
2. FIELD WIRING: USE UL LISTED, STRANDED, TWISTED PAIR, OVERALL FOIL SHIELD WITH STRANDED DRAM WIRE SUITABLE FOR RS485 EQUIVALENT TO:  
(STANDARD 80°C) BELDEN 8042 OR 8029 OR ALPHA 8252C OR 8222C  
(PLENUM RATED) BELDEN 80729 OR 82729 OR ALPHA 85802

B

### CONTROLLER REMOTE CONTROL FEATURES



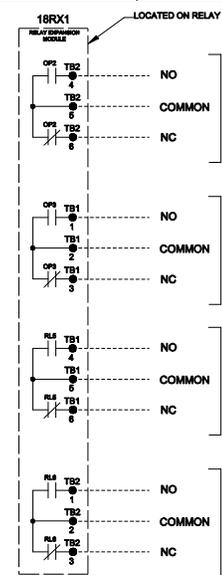
**EXTERNAL FEATURE 17 REMOTE TRANSFER TO EMERGENCY**  
[AUTOMATIC TRANSFER TYPE ONLY]  
OPEN TO TRANSFER TO EMERGENCY  
(NO CONTACT, 5VDC LOW ENERGY RATING)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**EXTERNAL FEATURE 6B REMOTE BYPASS OF RETRANSFER TO NORMAL TIME DELAY**  
OPEN TO BYPASS TIME DELAY  
(NO CONTACT, 5VDC LOW ENERGY RATING)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**EXTERNAL MANUAL TRANSFER REMOTE TRANSFER TO NORMAL OR EMERGENCY**  
[NON-AUTOMATIC TRANSFER TYPE ONLY]  
(MOMENTARY SPDT, CENTER-OFF CONTACT, 5VDC LOW ENERGY RATING)

A

### OPTIONAL ACCESSORY 18RX1 (SECOND RELAY EXPANSION MODULE)



**OPTION RELAY "OP2"**  
SET JUMPERS J1: 1-2 & 3-4  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**OPTION RELAY "OP3"**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)  
REFER TO USER'S GUIDE PH 381353-003 FOR SETTING INFORMATION.

**EMERGENCY SOURCE ACCEPTABLE SIGNAL**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)

**NORMAL SOURCE ACCEPTABLE SIGNAL**  
(5 AMPS, 30 VDC MAX.)  
(100 mA, 5 VDC MIN.)

**TO OTHER ASCO SERIAL COMMUNICATIONS DEVICES**

H	317801	BYM	BYM	08/16/05
G	278890	TR	BK	03/03/10
F	278211	TR	BK	10/10/10
E	265630	AE	BK	02/13/17
D	242810	AE	BK	7/23/14
C	247770	BDH	BDH	4/14/14
B	240020	AE	BK	01/16/14
A	242890	BDH	BDH	6/26/13
-	242890	BDH	BDH	8/26/13
		BSLE		

PROJECT NAME:		DIAGRAM	
300 SERIES DSATS/DSNTS, THREE PHASE 30-230 AMPS			
"D" FRAME, GROUP G CONTROLS			
OWNED BY:	DATE:	MANUFACTURER TO BE ADVISED TO BE ACCORDANCE WITH ASCO PROCEDURES FOR PLASTIC PARTS SEE 381354	ASCO REF. NO.
CHANGED BY:	DATE:	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	ASCO REF. NO.
PROJECT APPROVED BY:	DATE:		
FIELD APPROVAL:	DATE:		
ASCO		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07938 U.S.A.	
978741		REV. 10/17/01	
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8      7      6      5      ↑      4      3      2      1

D

C

B

A

8 7 6 5 4 3 2 1

MAIN POWER POLES

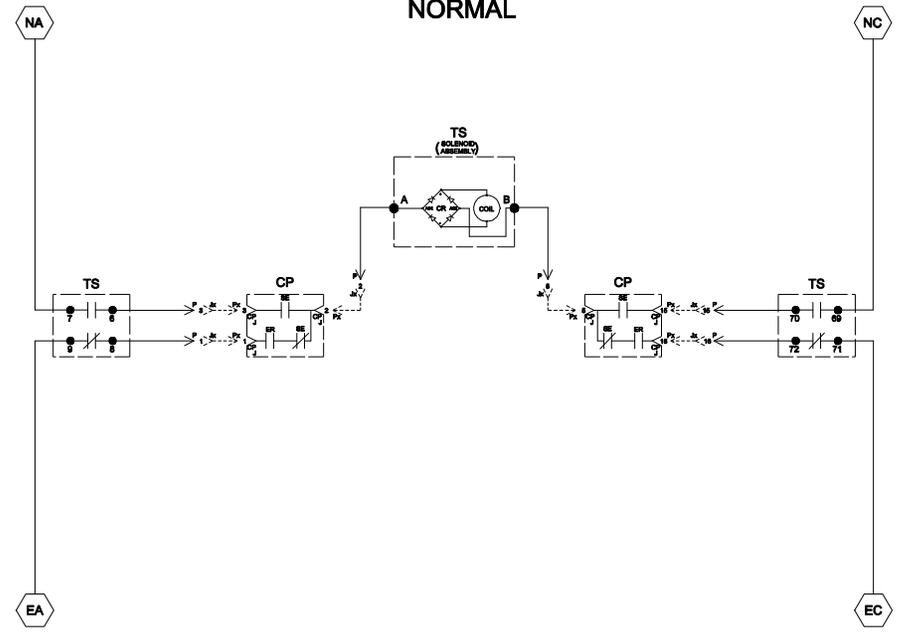
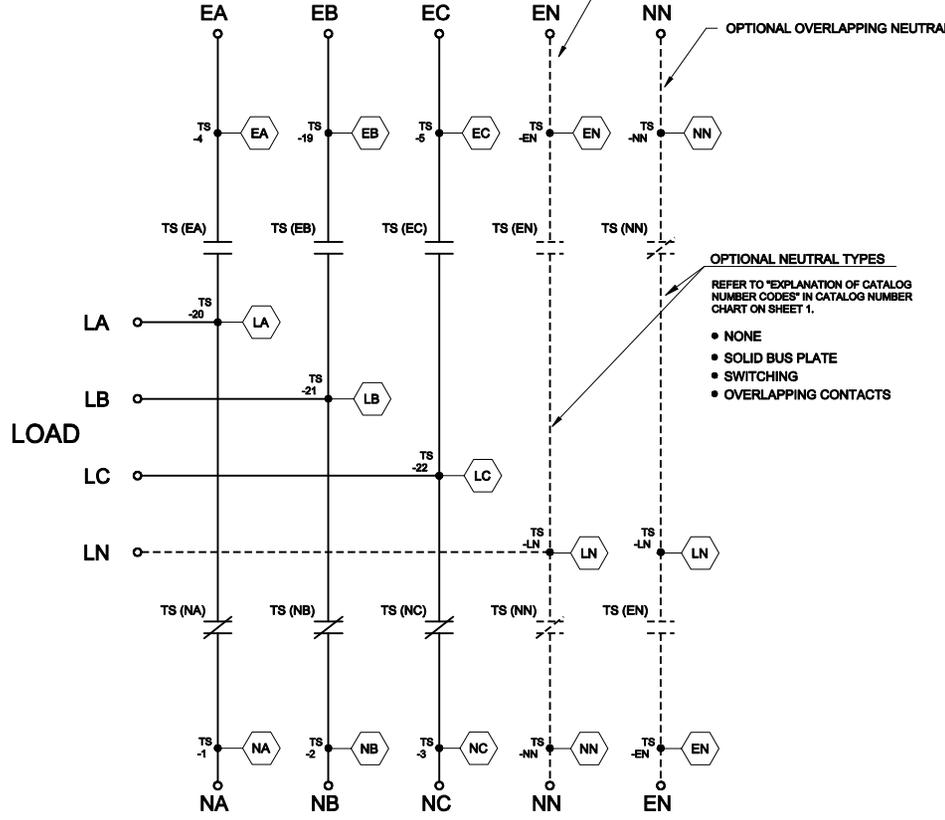
TS OPERATOR CIRCUIT

EMERGENCY

NORMAL

NORMAL

EMERGENCY



NOTE:  
ATS SHOWN CLOSED ON NORMAL SOURCE.

TS CONTROL CONTACTS		SOLENOID POSITION	
TS		GLOBAL/OPEN	TRIP/SHUT/LOCKED
6-7		NORMAL	EMERGENCY
6-7			
6-7			
6-7			
6-7			

TS: (TOP LEAD CENTER)  
TRANSFER SWITCH TEST & ADJUSTMENT PROCEDURE  
(SPECIFIC CONTROL OUT-OF-COORDINATION)  
SETTING.

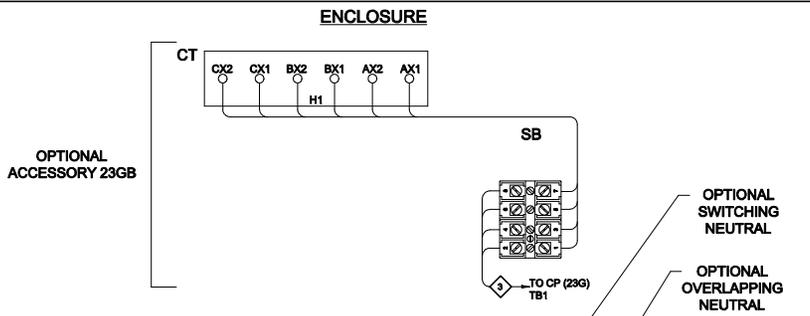
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G	278880	TR	EC	08/03/10
F	278211	TR	EC	10/16/10
E	266280	AE	EC	02/13/17
D	248210	AE	EC	7/20/14
C	247770	BDH	BDH	4/14/14
B	248202	AE	EC	01/16/14
A	242880	BDH	BDH	6/20/13
	242280	BDH	BDH	8/2/13
				8/16/12

PROJECT NAME:		DIAGRAM	
WIRING			
300 SERIES DSATS/DSNTS, THREE PHASE 90-230 AMPS			
'D' FRAME, GROUP G CONTROLS			
BY	DATE	MANUFACTURING TO BE SUBMITTED TO BE BY ACCORDANCE WITH ASCO PROCEDURES FOR PLATING PARTS SEE 404-08	APPROVAL REF. NO.
SDH	8/9/15		
CHECKED	DATE	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. RETURNED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE
SDH	8/9/15		DS
DATE NO.	978741	COMPUTER GENERATED DRAWING	
REV. TO	REV. NO.	BY	DATE
ASCO		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07931 U.S.A.	
REV. NO.	3 OF 6		

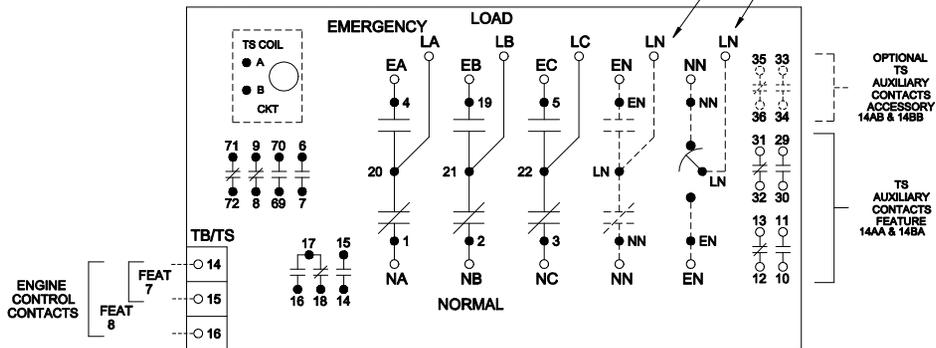
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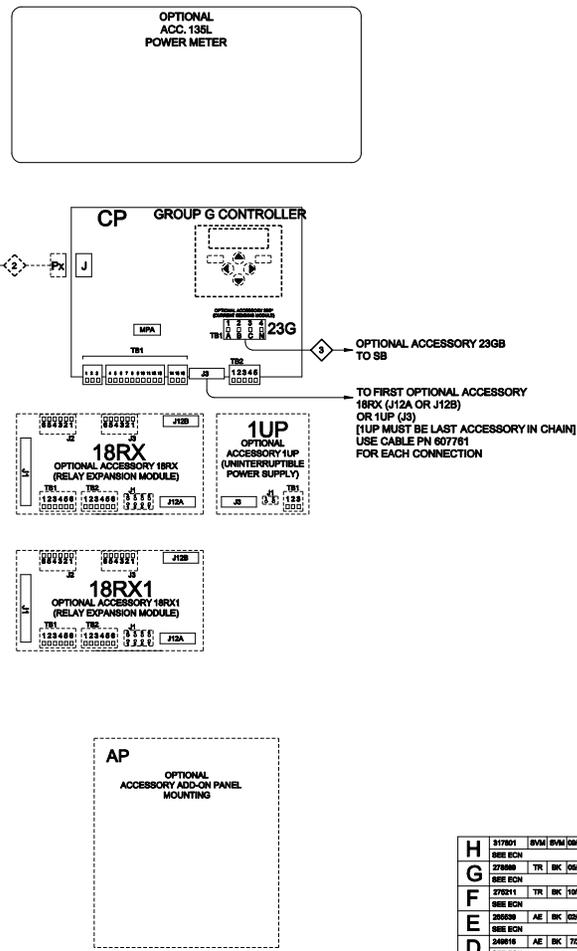
PHYSICAL DIAGRAM



30,70,100,150,200,& 230 AMPS



DOOR (INSIDE)



H	317801	BYM	BYM	08/16/05
G	278880	TR	BK	05/03/70
F	276241	TR	BK	10/16/70
E	205200	AE	BK	02/13/77
D	242910	AE	BK	7/20/74
C	247770	BDH	BDH	4/14/74
B	248200	AE	BK	01/16/74
A	242880	BDH	BDH	6/30/73
-	242200	BDH	BDH	8/9/73

PROJECT NAME:		DIAGRAM	
300 SERIES DSATS/DSNTS, THREE PHASE 90-230 AMPS			
'D' FRAME, GROUP G CONTROLS			
BY	DATE	MANUFACTURER TO BE USED TO BE ACCREDITED WITH ASCO PRODUCTS	COMPUTER GENERATED DRAWING
SDH	8/16/05	FOR PLASTIC PARTS SEE MP-408	SCALE DATE DS
CHECKED		PROJECTS OF ASCO POWER TECHNOLOGICALS ARE SUBJECTS FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	DATE NO. 978741
PROJECT APPROVED			FORM NO. 100 3/78
FINAL APPROVAL	SDH	8/16/05	ASCOTM ASCO P. OVER TECHNOLOGICALS, L.P. FLORHAM PARK, NEW JERSEY 07831 U.S.A. 317801 5 OF 6

