

400A ATS

SWITCH SUBMITTAL



Reference Quote: T5-24-638787-1-1

Sales Order: N/A

TRANSFER SWITCH DETAILS									
ATS NAME	QTY	AMPS / POLES (VOLTS)	BYPASS	TRANSITION TYPE	CATALOG NUMBER	ACCESSORIES	OUTLINE DRAWING	WIRING DIAGRAM	BOM NUMBER
	1	0400 / 2 (240V)	N/A		E00185A20400F40M		861733-001	861735	839367

	Transfer Switch Withstand and Closing Ratings																			
	300, 4000 & 7000 Series																			
ATS NAME			CURRENT LIMITING FUSES			SPECIFIC BREAKER			TIME BASED				Short Time Ratings³ (sec) 480V Max. 600V Max.							
NAVIE	SIZE	Transfer Switches	Bypass Switches	480V Max.	600V Max.	MAX SIZE, A	CLASS	240V Max.	480V Max.	600V Max.	Time(Sec)	240V Max.	480V Max.	600V Max.	.13	.2	.3 .5	.1	.13	.3 .5
-	Е	260, 400	-	200kA	-	600	J	65kA	42kA	22kA	0.05	35kA	35kA	22kA	-		-			

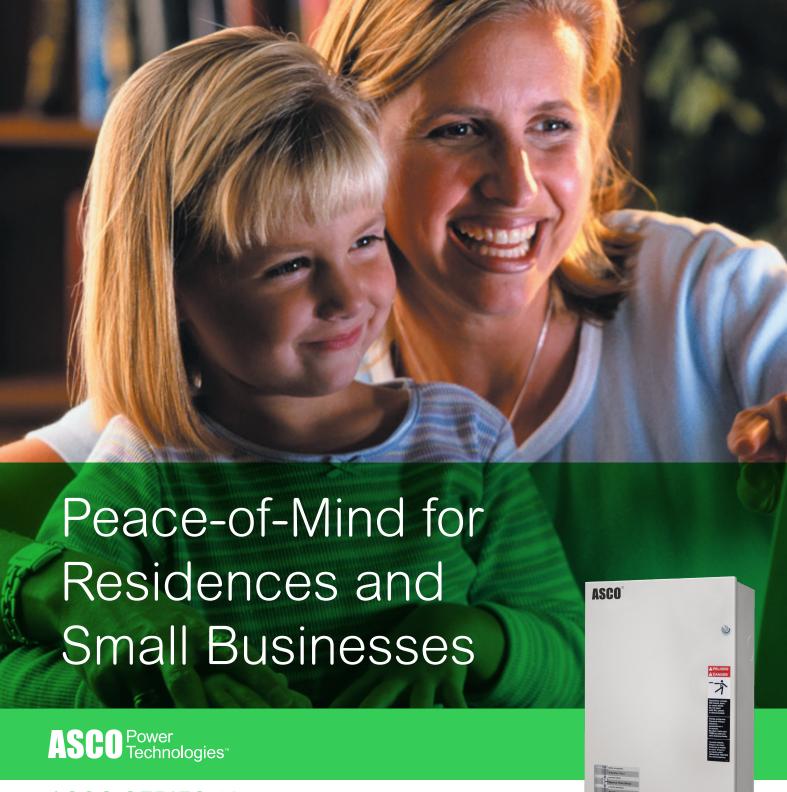
NOTES:

- 1) All WCR values indicated are tested in accordance with the requirements of UL 1008, 7th Edition.
- 2) Application requirements may permit higher WCR for certain switch sizes.3) Short Time ratings are provided for applications involving circuit breakers that utilize trip delay settings for system selective coordination



Transfer Switch Details

#1	ATS A			MPS: 0400		QTY: 1
Product	:	Series 185 Tr	ansfer Switches	Catalog Number	:	E00185A20400F40M
Service Vol	ltage / Hz :	240V/60Hz		Optional Accessories	:	
Bypass Isol	lation :	Not Applicable	е	Product Description	:	Series 185 Automatic Switches
No. of Switched Poles: 2 : 2		Neutral Configuration		Solid [A]		
Withstand F	Rating: :	A @ 240V		No. of Cables & Lug Size	:	(1) #4 AWG to 600 or (2) #1/0 AWG to 250 MCM
Other Ratin	gs May Apply. Cont	act ASCO For I	Details.			
Enclosure :		3R(M)-UL Type 3R secure double door enclosure (See Disclaimer 3)		Service		Single Phase, 3-wire
Extended V	Varranty :	Not Included		Markings	:	



ASCO SERIES 185
Generator Transfer Switches



ASCO SERIES 185 Generator Transfer Switches

ASCO SERIES 185 Generator Transfer Switches reliably connect power from a backup generator to your home or business whenever outages occur.

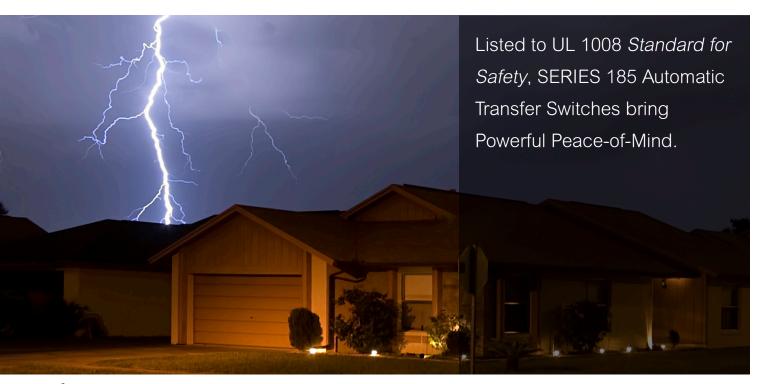
Computers, communication and information systems, security systems, cash registers, heating systems, water heaters, refrigerators and freezers, air conditioners, sump pumps, well pumps ... nearly every system in your home or business depends on electric power. Generators can restore power to vital equipment. But they can only operate when someone connects them and turns them on!

Automatic Transfer Switches start and connect generators automatically, even when no one is home or employees have left for the weekend. Whenever power outages occur, an ASCO transfer switch starts the generator, then switches your home or business from the public power supply to its backup generator. When utility power is restored, the device switches back to utility power, then turns the generator off.

An ASCO automatic transfer switch offers great convenience when your building is occupied ... and an essential service when no one is there. By automatically switching your home or business to backup power, it can:

- avoid lost business and personal data on computers
- avoid loss of heating that leads to burst pipes and water damage
- · avoid loss of a sump pump that leads to flooding
- avoid loss of air conditioning from outages during hot weather
- · avoid loss of perishables from lack of refrigeration

An ASCO automatic transfer switch also increases safety by preventing simultaneous connection of utility and generator power to your home or business.



SERIES 185 Generator Transfer Switches

Why Choose an ASCO Transfer Switch?

Reliability

Product

Details

Transfer Switch

Overview

ASCO SERIES 185 Transfer Switches are designed to withstand demanding electrical and environmental conditions to provide many years of reliable service. Every model meets or exceeds the rigorous endurance requirements of UL 1008, the leading standard for transfer switch design and testing.

Safety

Every ASCO SERIES 185 Transfer Switch is tested to UL 1008's rigorous electrical safety requirements. If you don't see the UL "Automatic Transfer Switch" label ... you're not getting the best protection money can buy.

Trust

ASCO is the name behind most of the advances in transfer switch design, and our products serve life safety systems in the largest hospitals, vital information systems in financial data centers, and mission critical systems on offshore oil platforms, critical government agencies, and military installations. The SERIES 185 brings 100+ years of ASCO experience to your home or business.

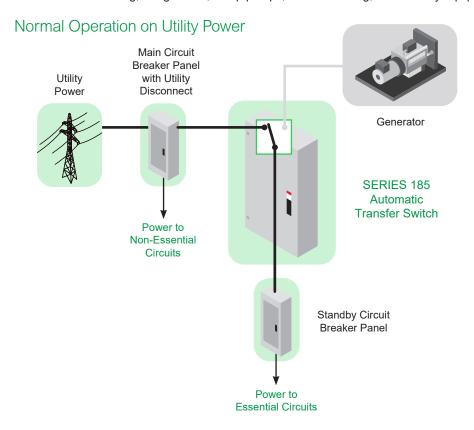
Power Knowledge

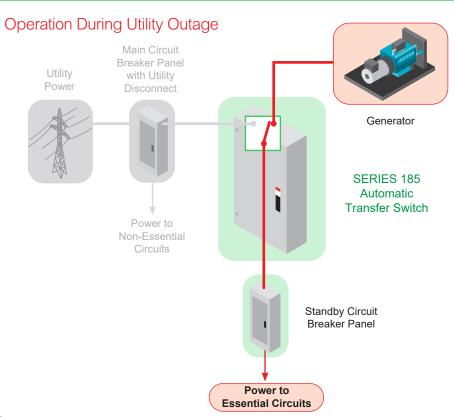
Three Reasons to
Choose UL 1008
Transfer Switches



SERIES 185 Automatic Transfer Switches

In many applications, generators are sized to supply backup power to the most important circuits in your home or buisness. An ASCO SERIES 185 Automatic Transfer Switch transfers essential circuits to generator power automatically whenever utility outages occur. This brings backup power to essential devices such as heating, refrigeration, sump pumps, air conditioning, and security equipment.





Product Features

- User-friendly control interface informs users of transfer switch and power source status
- Listed to UL 1008 for optional standby systems
- Nominal service voltage 240V 50/60Hz, single phase, AC systems
- 100 to 400 Amp models
- 100, 200, and 400 Amp Service Entrance designs feature disconnect circuit breaker on the normal source
- True double-throw contacts with inherent mechanical interlocking prevents simultaneous connection of generator and utility sources
- Terminals for convenient connection of neutral and ground conductors
- Available in NEMA Type 1 Indoor (steel) and Type 3R Outdoor (aluminum) enclosures, with hinged doors
- Suitable for controlling standby generators with 2-wire automatic starting circuits

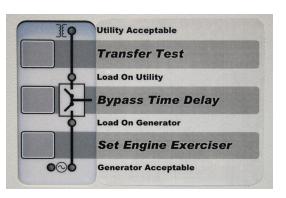
Power Knowledge

Basic Automatic
Transfer Switch
Functions

Group 4 Controller

ASCO Group 4 Controller supervises the voltage, frequency, control, timing, and connectivity functions required for most residential and small business applications.

- Engine Exerciser for Automatic Periodic Testing of Transfer Switch and Generator
- · Configurable Time Delays
- Configurable Voltage Pickup Settings
- · Control Buttons:
- Transfer Test
- Bypass Time Delay
- Set Engine Exerciser
- User-Selectable In-Phase Monitor Feature
- Input for External Transfer Activation Control



Buttons operate transfer switch. LED indicators show switch status



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SERIES 185 Ordering Information

AUTOMATIC TRANSFER SWITCHES									
CATALOG NUMBER	ENCLOSURE	CONSTRUCTION	AMPS	VOLTAGE	POLES	WIDTH IN(MM)	HEIGHT IN (MM)	DEPTH IN(MM)	WEIGHT LB(KG)
D00185A20100F40C	Type 1 Indoor	Steel	100	240	2	14.25(362)	24(610)	8.25(210)	44(20)
D00185A20200F40C	Type 1 Indoor	Steel	200	240	2	14.25(362)	24(610)	8.25(210)	44(20)
E00185A20400F40C	Type 1 Indoor	Steel	400	240	2	22(559)	45(1143)	7.5(191)	79(28)
D00185A20100F40M	Type 3R Outdoor	Aluminum	100	240	2	16(406)	24(610)	10(254)	49(22)
D00185A20200F40M	Type 3R Outdoor	Aluminum	200	240	2	16(406)	24(610)	10(254)	49(22)
E00185A20400F40M	Type 3R Outdoor	Aluminum	400	240	2	24(610)	48(1219)	10(254)	118(53)

SERVICE ENTRANCE AUTOMATIC TRANSFER SWITCHES									
CATALOG NUMBER	ENCLOSURE	CONSTRUCTION	AMPS	VOLTAGE	POLES	WIDTH IN(MM)	HEIGHT IN (MM)	DEPTH IN(MM)	WEIGHT LB(KG)
D01AUSA20100F40C	Type 1 Indoor	Steel	100	240	2	16(406)	36(913)	6(152)	61(28)
D01AUSA20200F40C	Type 1 Indoor	Steel	200	240	2	16(406)	36(913)	6(152)	61(28)
E01AUSA20400F40C	Type 1 Indoor	Steel	400	240	2	36(913)	47(1193)	8(203)	177(82)
D01AUSA20100F40M	Type 3R Outdoor	Aluminum	100	240	2	16(406)	36(913)	8(203)	45(21)
D01AUSA20200F40M	Type 3R Outdoor	Aluminum	200	240	2	16(406)	36(913)	8(203)	45(21)
E01AUSA20400F40M	Type 3R Outdoor	Aluminum	400	240	2	36(913)	47(1193)	8(203)	144(67)

Notes:

Type 3R enclosures provide a degree of protection against falling dirt, rain, sleet, and snow. Additional protection may be required in locations subject to wind blown conditions.



SERIES 185 Technical Information

Withstand and Cl				
SWITCH	SHORT CIRCUIT	CURRENT RATING		
RATING (AMPS)	WITH FUSES	WITH CIRCUIT BREAKERS		
100	200KA	10KA		
200	200KA	10KA		
400	200KA	35KA		

Notes:

All units are RMS Symmetrical Amperes

All Withstand and Closing Rating values are tested in accordance with UL 1008. See <u>ASCO Publication 1128</u> for more information.

Application requirements may permit higher WCR for certain switch sizes.

External Power (External Power Connections						
SWITCH RATING (AMPS)	WIRING SIZE RANGE						
100	(1) #14 to 4/0 AWG						
200	(1) #14 to 4/0 AWG						
400	(2) #1/0 AWG to 250 MCM or (1) #4 AWG to 600 MCM						

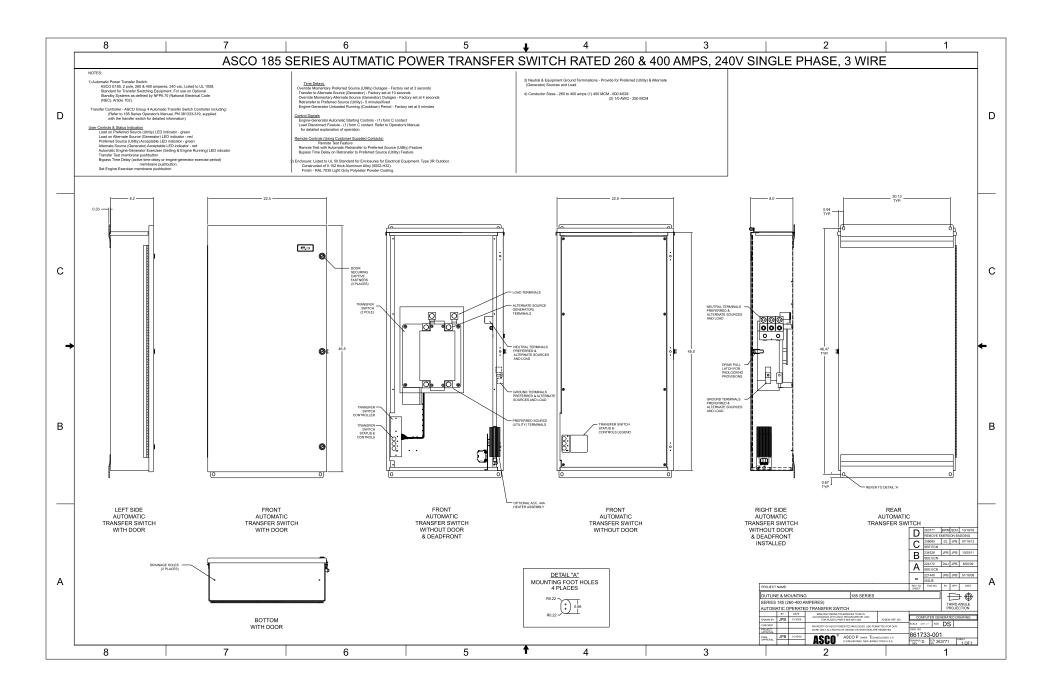
Notes

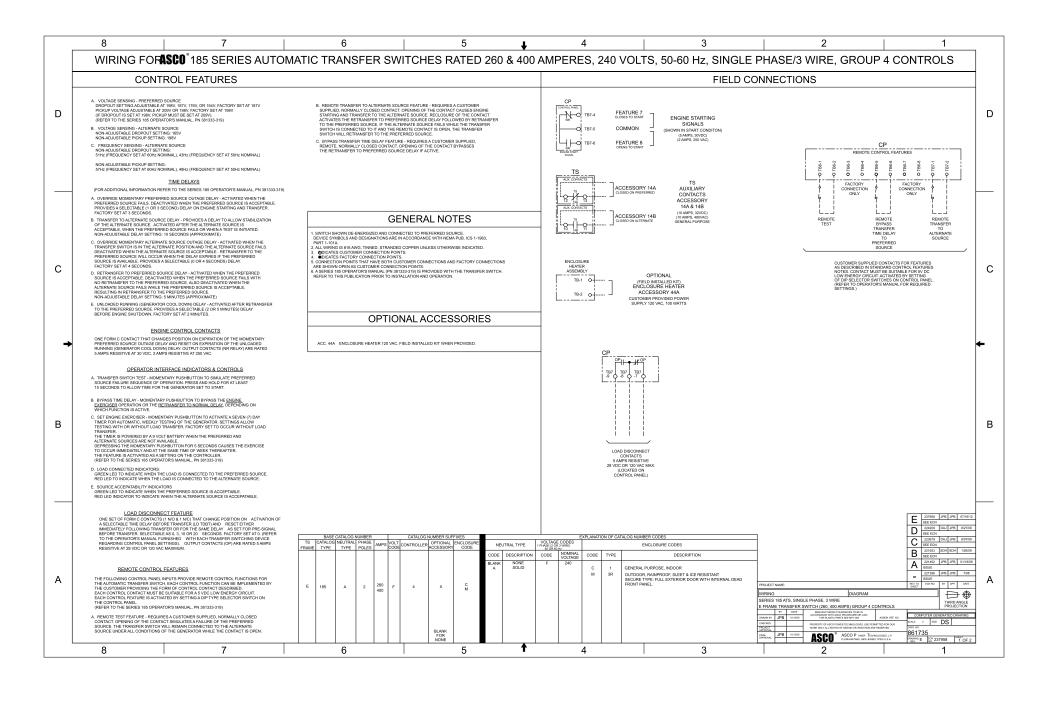
UL listed for 200 amps with copper conductors only. For individual dwelling units as defined in NFPA 70 (NEC), in cases where the transfer switch is between the service main disconnect and the lighting and appliance branch circuit panelboard(s), NFPA 70 allows for a reductions in size of the feeder conductors. All other NFPA 70 requirements regarding conductor ampacities must also be observed. Always install electrical equipment to the requirements defined by the authority having jurisdiction.

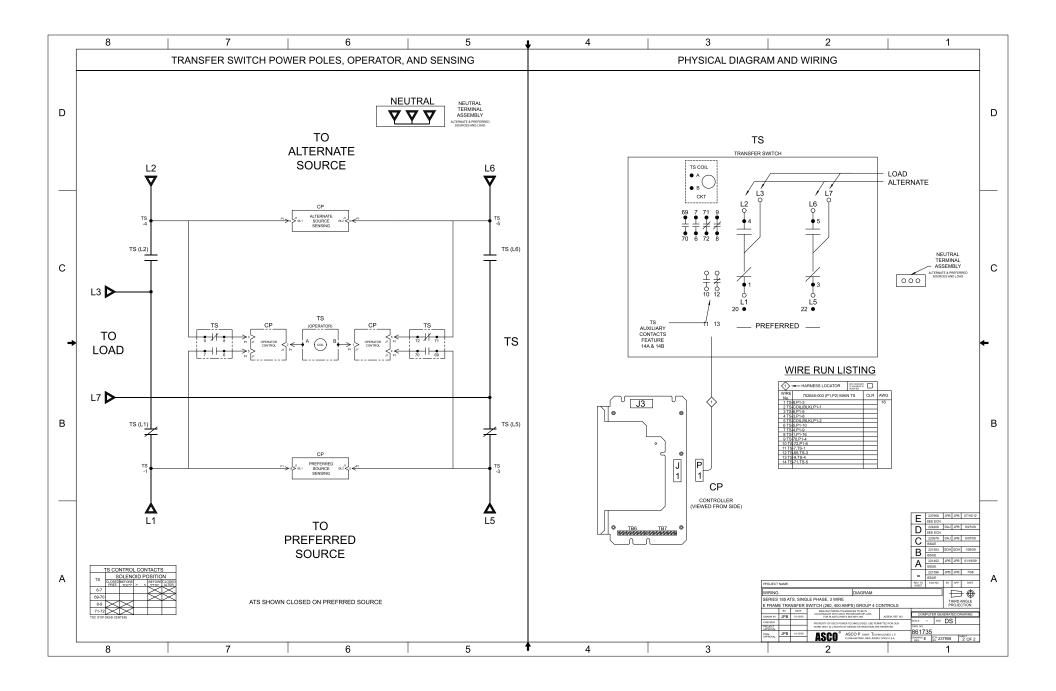
Power Knowledge

Applying Transfer
Switch Withstand
and Closing
Ratings











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