ASCO SERIES 300 Power Transfer Switches













24-hour protection no matter when trouble strikes

ASCO Series 300 Power Transfer Switches for Power Outage Protection

Where would you be without a constant flow of electrical power? We often take for granted that power will always be around when we need it. In reality, power failures are very common. And when the power goes out, your business suffers. Power failures are unpredictable. They can occur at any time and for any number of reasons—a bolt of lightning, a power surge, a blackout, an accident or even equipment failure. They come without warning and often at the most inconvenient times.

It's for this reason that many businesses and other entities have invested in emergency power backup systems. Typically, the system consists of an engine generator and an automatic transfer switch (ATS) which transfers the load from the utility to the generator.

control logic monitors your normal power supply, senses interruptions and unacceptable abnormalities. When the utility power fails, the ATS automatically starts the engine and transfers the load after the generator has reached proper voltage and frequency. This happens in a matter of seconds after the power failure occurs. When the utility power has been restored, the ATS will automatically switch the load back, and after a time delay, it will shut down the engine. With an Automatic Transfer Switch, you are protected







Typical Applications

Telecom

In the telecommunications industry, providing a high level of service and dependability is crucial. Lost power means an interruption in service for your customers and lost business for your company. For instance, wide geographical region and in many remote areas, the chances increased, making Automatic Transfer Switches a valuable resource at each location. To maintain dependable service, each cell site must be monitored very difficult without some type of remote monitoring and testing capability. The SERIES 300 Transfer Switch, combined with effective, packaged solution these challenging objectives without a major investment at each cell site. With ASCO's connectivity solutions you can remotely monitor and control numerous sites from around the corner or around the world.

Agriculture

Maintaining electrical power is vital to an agriculture operation. If the flow of power is interrupted, your operation backup generator is quickly aspects of the operation, from housing and feeding livestock to processing and producing the end product. With an ASCO Series 300 Transfer ly be transferred over to your backup generator, eliminating from utility to generator. When power is restored, the ASCO after an adjustable time delay automatically switch the load

Commercial / Retail, Light Industrial

The retail industry is very competitive. An electrical power failure can have a dramatic impact on a retailer's bottom line. If power is interrupted during peak shopping times, the effect could be extremely damaging to present and ruption will not only suspend shopping, it can also create safety problems, result in lost transaction data, lost account information and damage to data collection equipment. In controlled climates to protect valuable inventory could suffer even greater losses, especially a time when no one is available to rectify the situation. To avoid any of these power outage problems, simply install a backup generator with an ASCO Series 300 Transfer Switch and power outage concerns will be a thing of the past.

Municipal

The ASCO SERIES 300 Transfer Switch can be a critical component of a municipal government's emergency power backup system. Residents of townships, cities and counties rely on police, fire, ambulance/first aid and other critical public sector services. An interruption in power would affect the ability of emergency services to effectively respond to the needs of the community. When time is a critical factor, such as when responding to a fire alarm or an emergency call, an ASCO SERIES 300 Transfer Switch can be a lifesaver, switching power to the backup generator. While not all municipal services are a matter of life and death, they are always expected to be there.

ASCO Series 300 Power Transfer Switches

Maximum Reliability & Excellent Value

With a Series 300 Transfer Switch, you get a product backed by ASCO Power Technologies, the industry leader responsible for virtually every major technological advance in the Transfer Switch industry.

The ASCO Series 300 was designed for one purpose—to automatically transfer critical loads in the event of a power outage. Each and every standard component was designed by ASCO engineers for this purpose.

The Series 300 incorporates the Group G controller with enhanced capabilities for dependable operation in any environment. A user friendly control interface with a 128x64 graphical LCD display and intuitive symbols allow for ease of operation while visual LED indicators verify transfer switch status. Operating parameters and feature settings can be adjusted without opening enclosure door.

The rugged construction and proven performance of the ASCO SERIES 300 assure the user of many years of complete reliability. The Series 300 is even designed to handle the extraordinary demands placed on the switch when switching stalled motors and high inrush loads.

ASCO's Series 300 modular, compact design makes it easy to install, inspect and maintain. All parts are accessible from the front so switch contacts can be easily inspected.

Features

- The Series 300 is listed to UL 1008 standard for total system loads and CSA standard C22.2 for automatic transfer switches.
- Meets NFPA 110 for Emergency and Standby Power Systems and the National Electrical Code (NEC) Articles 700, 701 and 702.
- Controller is RoHS compliant (Restriction of Hazardous Substances).



Fig. 1: ASCO Power Transfer Switch rated 200 amperes

- 30 through 3000 amps in a compact design.
- Available to 600 VAC, single or three phase.
- True double-throw operation: The single solenoid design is inherently inter-locked and prevents contacts from being in contact with both sources at the same time.
- There's no danger of the Series 300 ATS transferring loads to a dead source because the unique ASCO single-solenoid operator derives power to operate from the source to which the load is being transferred.
- Easy to navigate 128x64 graphical LCD display with keypad provides LED indicators for switch position, source availability, not in auto, and alert condition.
- Integrated multilingual user interface for configuration and monitoring.
- Delayed transition operation is now available (Dual Operator Configuration).
- Non-automatic operation can be selected using the key pad without opening enclosure door.
- Relay expansion module with extra relays for accessory outputs (Optional).
- Includes soft keys for test function and time delay bypass as standard features.
- Historical event log (Optional).
- Statistical ATS system monitoring information.
- Diagnostic Functions.
- Password protection to prevent unauthorized tampering of settings.
- Adjustable time-delay feature prevents switch from being activated due to momentary utility power outages and generator dips.
- Supplied with solid neutral termination.
- Optional switched neutral pole available.
- Field modification accessory kits available.
- Available for immediate delivery.



ASCO[®] Series 300 Power Transfer Switches

Designed to Fit Anywhere

The ASCO Series 300 product line represents the most compact design of automatic power transfer switches in the industry. With space in electrical closets being at a premium, the use of wall or floor-mounted ASCO Power Transfer Switches assures designers optimum utilization of space.

All transfer switches through 2000 amps are designed to be completely front accessible. This permits the enclosures to be installed flush to the wall and still allows installation of all power cabling and connections from the front of the switch. Cable entrance plates are also standard on the 1600 and 2000 amp units to install optional side-mounted pull boxes for additional cable bending space.



Fig. 2: ASCO Power Transfer Switch rated 200 amperes



Fig. 3: ASCO Power Transfer Switch rated 400 amperes



Fig. 4: ASCO Power Transfer Switch rated 600 Amperes



Fig. 5: ASCO Power Transfer Switch rated 1000 amperes



Fig. 6: ASCO Power Transfer Switch rated 2000 amperes shown in Type 3R enclosure



Fig. 7: ASCO Power Transfer Switch rated 3000 amperes



ASCO Series 300 New Microprocessor Controller



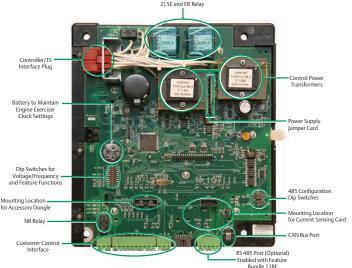


Fig. 8: ASCO SERIES 300 Microprocessor Controller

Control and Display Panel

• Easy to navigate 128x64 graphical LCD display with keypad provides LED indicators for switch position, source availability, not in auto, and alert condition. It also includes test and time delay bypass soft keys.

Voltage & Frequency Sensing

- 3 Phase under and over voltage settings on normal and single phase sensing on emergency source.
- Under and over frequency settings on normal and emergency.
- True RMS Voltage Sensing with +/-1% accuracy Frequency Sensing Accuracy is +/- 0.1Hz
- Voltage and Frequency parameters adjustable in 1% increments
- Selecting settings : single or three phase voltage sensing on normal, and single phase sensing on emergency; 50 or 60 Hz
- Load current sensing card (Optional)

The Series 300 incorporates the group "G" controller with enhanced capabilities for dependable operation in any environment.

Time Delays

- Engine start time delay delays engine starting signal to override momentary normal source outages - adjustable to 0 to 6 seconds (Feature 1C)
- Transfer to emergency time delay adjustable 0 to 60 minutes (Feature 2B)
- Emergency source stabilization time delay to ignore momentary transients during initial generator set loading - adjustable 0 to 4 seconds (Feature 1F)
- Re-transfer to normal time delay adjustable 0 to 10 hours (Feature 3A)
- Unloaded running time delay for engine cooldown adjustable 0 to 60 minutes (Feature 2E)
- Pre and post signal time delay for selective load disconnect with a programmable bypass on source failures – adjustable 0 to 5 minutes (specify ASCO Optional accessory 31Z)
- Optional fully programmable engine exerciser with seven independent routines to exercise the engine generator, with or without loads, on a daily, weekly, bi weekly or monthly basis (Specify ASCO optional accessory feature bundle 11BE)
- Delayed transition load disconnect time delay adjustable 0 to 5 minutes.

Standard Selectable Features

- Inphase monitor to transfer motor loads, without any intentional off time, to prevent inrush currents from exceeding normal starting levels.
- Engine exerciser to automatically test backup generator each week—with or without load 20 minutes not adjustable.
- Commit to transfer.
- Selective load disconnect control contacts (two provided) which operate with time delay prior to and/or after load transfer and re-transfer.
- 60Hz or 50Hz selectable switch. Three – phase/single - phase selectable switch.

Remote Control Features

External Inputs for connecting:

- Remote test switch.
- Remote contact for test or for peak shaving applications. If emergency source fails, switch will automatically transfer back to normal source if acceptable.
- Inhibit transfer to emergency
- Remote time delay bypass switch emergency to normal

ASCO Series 300 Group G Offers Sophisticated Functionality

The new Group G controller offers an intuitive, easy to navigate 128*64 graphical LCD display with soft keypad and provides (6) LED indica-

- Switch Position (green for normal, red for emergency LED)
- Source Availability (green for normal, red for emergency LED)
- · "Not In Auto" (amber LED)
- Common Alarm (amber LED)

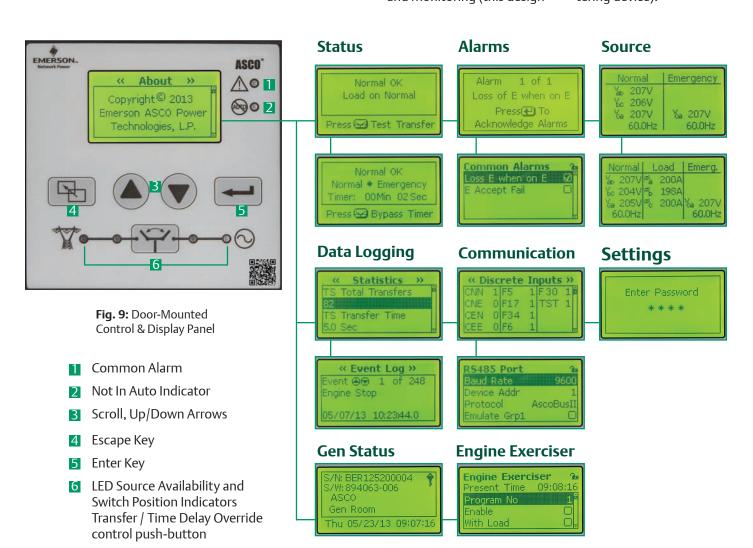
The ASCO group "G" controller is self contained with an integrated display

(no other components are required for efficient operation).

The controller allows for open or delayed transition transfer operation (both automatic, and non automatic configurations).

Integrated multilingual user interface for configuration and monitoring (this design approach allows greater application flexibility).

Multiple source sensing capabilities of voltage, frequency (under frequency sensing on normal and emergency sources), and optional current card, single and three phase (Does not require an external metering device).





ASCO Series 300 ATS Optional Accessories

Accessory 1UP

UPS back up power to allow controller to run with LCD display for 30 seconds without AC power

Accessory 11BE Feature Bundle Consists of:

A fully programmable engine exerciser with seven independent routines to exercise the engine generator, with or without loads, on a daily, weekly, bi – weekly or monthly basis. Engine exerciser setting can be displayed and changed from the user interface keypad.

Event Log display shows the event number, time and date of event, event type, and event reason (if applicable). A maximum of 300 events can be stored.

RS 485 Communications Port Enabled Common Alarm Output Contact

Accessory 18RX

Relay expansion module (REX) provides for some commonly used accessory relays, includes one form C contact for source availability of normal (18G), and one contact for availability of emergency (18B) (contact rating 5 amps @ 30Vdc or @125 Vac resistive). Additional output relay is provided, the default is to indicate a common alarm. (See operator's manual for configurable options).

Accessory 23GA1 (Single Phase), and 23GB (Three Phase)

Load current metering card, measures either single or three phase load current

Note1: This feature is not available with a Power Meter Option (135L)

Accessory 14AA/14BA

Auxiliary contacts to indicate position of main contacts. Two (2) for normal and two (2) for emergency position (one set is standard).

Accessory 44A

Strip Heater with thermostat for extremely cold areas to prevent condensation and freezing of this condensation. External 120 volt power source required.

Accessory 44G

Strip Heater with thermostat, wired to load terminals: 208-240, 360-380, 460-480, 550-600 volts. Contains wiring harnesses for all transfer switch sizes.

Field Conversion Kits for SERIES 300 Transfer Switches

Kit No.	Description
935147	Feature Bundle Includes Engine Exerciser/Event Log/RS 485/ Common Alarm Output Contact (Acc. 11BE) Dongle
935148	REX Module with Source Availability Contacts (Acc. 18RX)
935149	UPS to allow controller to run for 3 minutes minimum without AC Power (Acc. 1UP)
935150	1/3 Phase load current sensing card only (Acc. 23GA/GB)
K613127-001	Strip Heater (125 watt) 120 volt (Acc.44A)
K613127-002	Strip Heater (125 watt) 208 - 480 volt (Acc.44G)
948551	Quad - Ethernet Module (Acc. 72EE)
K609027	Cable Pull Box (1600 - 2000 amp)

Accessory 72EE

Connectivity Module, enabling remote monitoring and control capabilities (Pages 12-14)

Accessory 31Z

Selective load disconnect circuit to provide a pre – transfer and/or post transfer signal when transferring from emergency to normal and/or normal to emergency.

Accessory 73

Surge Suppressor (TVSS) Rated 65kA

Accessory 62W

Audible alarm with silencing feature to signal each time switch transfers to emergency (City of Chicago requirement)

Accessory 37B

6' Extension harness for units shipped open type to accommodate customer mounting of controls and switch

Accessory 37C

9' Extension harness for units shipped open type to accommodate customer mounting of controls and switch

Accessory 135L²

Power Meter on load side (Includes shorting block and CT's) Note2: This feature is not available with Load Current Metering Option (23GA, or 23GB)

Accessory 30AA3

Load – shedding circuit initiated by opening of a customer – supplied contact

Accessory 30BA3

Load – shedding circuit initiated by removal of customer – supplied voltage (* Specify voltage)

Note3: Accessory 30AA, and 30BA are only available for 3ADTS/3NDTS (Delayed Transition Transfer Switch)



Fig. 10: Strip Heater Kit (Accessory 44G)



Fig. 11: Relay Expansion Module (Accessory 18RX)



Fig. 12: Load Current Card (Accessory 23GA/GB)



Fig. 13: Programmable **Engine Exerciser**



Fig. 14: Accessory 1UP **UPS Backup Power**



ASCO Series 300 Power Transfer Switches

SERIES 300 Non-Automatic Transfer Switching (3NTS)

ASCO non-automatic transfer switches are generally used in applications where operating personnel are available and the load is not an emergency type requiring automatic transfer of power. They can also be arranged for remote control via ASCO's connectivity products.



Fig. 15: ASCO 3NTS 400 Amp Type 1 Enclosure

3NTS Features:

- ASCO Non-Automatic Transfer Switches are electrically held, manually initiated via soft keys on the user interface panel.
- Sizes from 30 through 3000 amps.
- Microprocessor based controller provides for addition of optional accessories.
- Controller prevents inadvertent operation under low voltage condition.
- Source acceptability lights inform operator if sources are available to accept load.
- Source inphase monitor to transfer motor loads between live sources.
- One auxiliary contact closed when transfer switch is connected to normal and one closed on Emergency standard feature 14A/14B



Fig. 16: ASCO 3ADTS/3NDTS 400 Amp Type 1 Enclosure

SERIES 300 Delayed Transition Transfer Switching (3ADTS/3NDTS)

ASCO Delayed Transition Transfer Switches are designed to provide transfer of loads between power sources with a timed load disconnect position for an adjustable period of time.

3ADTS/3NDTS Features:

- Sizes from 150 through 3000 amps.
- Reliable field proven dual solenoid operating mechanisms.
- Mechanical interlocks to prevent direct connection of both sources.
- Adjustable time delay for load disconnect (0 to 5 minutes).
- Available in manual operation configuration (3NDTS).
- Available with optional load shed feature for (3ADTS).



SERIES 300 Transfer Switch Ordering Information

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

3	+ A	+	TS -	+	А	+ 3	+ 600 -	+	N +	- GX +		С		
		Product		Product			Neutral Code	Phase Poles	Amperes		oltage Code	Controller Code		Enclosure
A N	Automatic Non- Automatic	DTS	Conventional 2 Position Delayed Transition	A B1	Solid Neutral Switched Neutral	2 Poles 1φ 3 Poles 3φ	Continuous rating 30 ² , 70 ² , 104 ² , 150 ⁵ , 200 ^{4,5} , 230 ^{2,4,5} , 260 ^{2,5} , 400 ^{2,5} , 600 ⁵ , 800 ⁵ , 1000 ⁵ , 1200 ⁵ , 1600 ⁵ , 2000 ⁵ , 2600 ⁵ , 3000 ⁵	A ³ B ³ C D E F H J K L M N Q R	115 120 208 220 230 240 380 400 415 440 460 480 575 600	G GX Optional Accessories	O (zero) C F G H L M N P Q R	Open Type Type 1 (Standard) Type 3R Non-Secure ² Type 4 ² Non-Secure Type 4X ² Non-Secure Type 12 ² Non-Secure Type 3R Secure Type 4 Secure Type 3R Secure Type 3R Secure Type 3R Secure Type 3R Secure Double Door Type 3RX ^{7,8} Secure Double Door 304 SS		

- **Notes:** 1. Specify neutral code "C" for 260 and 400 amperes only for 3ATS/3NTS
 - 2. Available 30-600 ampere size switches available in non - secure type enclosures
 - 3. 115-120 volt available 30-400 amps only. For other voltages contact ASCO.
 - 4. 200 and 230 amp rated switches for use with copper cable only.
 - 5. Switch sizes 800 3000 ampere, and 150 400 ampere 3ADTS/3NDTS provided in secure type outdoor enclosures when required.
 - 6. Use 3R for 1200, 2000, 2600, and 3000
 - 7. Type 304 stainless steel is standard. Suitable for indoor or outdoor use where there may be caustic or alkali chemicals in use.
- To provide an improved reduction in corrosion of salt and some chemicals, optional type 316 stainless steel is recommended. This is the preferred choice for marine environments.
- 8. Available on switches rated 1200, 2000, 2600, and 3000 amps.
- 9. When temperatures below 32°F can be experienced, special precautions should be taken, such as the inclusion of strip heaters, to prevent condensation and freezing of this condensation. This is particularly important when environmental (Type 3R,4) are ordered for installation outdoors.
- 10. Extra shelter protection should be considered for wind blown rain and snow, since ventilated type 3R enclosures due not protect against these conditions.

Series 300 External Power Connections

Sizes UL-Listed Solderless Screw-Type Terminals

	7.
Switch Rating (Amps)	Ranges of AL-CU Wire Sizes (Unless Specified Copper Only)
30 - 230 ²	One #14 to 4/0 AWG
260, 400	Two 1/0 AWG to 250 MCM or One #4 AWG to 600 MCM
600	Two 2/0 AWG to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2600, 3000	Twelve 3/0 to 600 MCM

Notes:

- 1. All Series 300 switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs.
- 2. 200 and 230 amp rated switches for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.
- 3. Use wire rated 75°C minimum for all power connections.

Extended Warranties for Series 300 Transfer Switches (3ATS/3NTS/3ADTS)

Catalog No.	Description
3EXW300	Three-Year Extended Warranty (Parts & Labor)
4EXW300	Four-Year Extended Warranty (Parts & Labor)
5EXW300	Five-Year Extended Warranty (Parts & Labor)

Notes:

1. Standard Warranty is (24) months, 2 years from date of shipment. Extended warranty is in addition to the two years, for total of 3,4, or 5 years.

ASCO UL1008 Withstand and Close On Ratings ^{1,2} (RMS Symmetrical Amps)

			300, 4000 & 7000 Series								8 7000 Se	ries	7000 Series			
F	Switch Rating (Amps)		Current Limiting Fuses				Specific Breaker			Time Based ³			Short Time Ratings ⁴ (sec)			
Frame	Transfer Switches												480V	Max.	600V N	lax.
		Bypass Switches	480V Max.	600V Max.	Max Size, A	Class	240V Max.	480V Max.	600V Max.	240V Max.	480V Max.	600V Max.	.1 .13	.3 .5	.1 .13 .3	.5
D	30	-	100kA	-	60	J	22kA	22kA	10kA	10kA	10kA	10kA		-	-	
D	70, 100		35kA	35kA	200	RK1	42kA	22kA	10kA	10kA	10kA	10kA	-		-	
	70, 100	_	200kA	35kA	200	J	721/7	ZZIVA	TOKA	TOKA	TOKA	TORA				
D	150	_	35kA	35kA	200	RK1	65kA	25kA	10kA 1	10kA	10kA	10kA	-		-	
	150		200kA	35kA	200	J	OOKA	20174								
D	200	-	200kA	-	200	J	65kA	25kA	10kA	10kA	10kA	-	-		-	
D	230	-	100kA	-	300	J	65kA	25kA	10kA	10kA	10kA	-	-		-	
Е	260, 400	-	200kA	-	600	J	65kA	42kA	35kA	35kA	35kA	22kA	-		-	
J	150 ⁸ , 200 ⁸ , 230 ⁸ , 260, 400	150 ⁸ , 200 ⁸ , 230 ⁸ , 260, 400	200kA	200kA	600	J	50kA	50kA	42kA	65kA	42kA ⁶	35kA				
J	600	600	200kA	200kA	800	L	50kA	50kA	42kA	65kA	42kA ⁶	35kA	-		-	
Н	600	600	200kA	200kA	800	L	65kA	65kA	65kA	50kA	50kA	50kA	36kA	-	36kA	-
Р	600	600	200kA	200kA	800	L	65kA	65kA	65kA	50kA	50kA	50kA	36kA	30kA	36kA	-
Р	800	800 - 1200	200kA	200kA	1600	L	65kA	65kA	65kA	50kA	50kA	50kA	36kA	30kA	36kA	-
Н	800 - 1200	800 - 1200	200kA	200kA	1600	L	65kA	65kA	65kA	50kA	50kA	50kA	36kA	-	36kA	-
S	800 - 1200	800 - 1200	200kA	200kA	2500	L	100kA	100kA	65kA	100kA	100kA	65kA	65	kA	65k <i>A</i>	4
G	1000 - 1200	1000 - 1200	200kA	200kA	2000	L	85kA	85kA	85kA	85kA	85kA	85kA		-	-	
G	1600 - 2000 ⁵	-	200kA	200kA	2500	L	85kA ⁵	85kA ⁵	85kA ⁵	85kA ⁵	85kA ⁵	85kA ⁵		-	-	
G	1600 - 2000	1600 - 2000	200kA	200kA	3000	L	125kA ⁹	125kA ⁹	100kA	100kA	100kA	100kA	42kA	-	42kA	-
S	1600 - 2000	1600 - 2000	200kA	200kA	2500	L	100kA	100kA	85kA	100kA	100kA	85kA	85kA	65kA	85kA	65kA
G	2600 - 3000	2600 -3000	200kA	200kA	4000	L	100kA	100kA	100kA	100kA	100kA	100kA	42kA	-	42kA ⁷	-
G	3200	-	200kA	-	4000	L	100kA	100kA	-	100kA	100kA	-		-	-	
G	4000	4000	200kA	200kA	5000	L	100kA	100kA	100kA	100kA	100kA	100kA	85KA	65kA	65k <i>A</i>	
U	2600 - 4000	2600 - 4000	200kA	200kA	5000	L	125kA	125kA	125kA	125kA	125kA ⁸	125kA ⁸	100)kA	100k	A

Notes:

- 1) All WCR values indicated are tested in accordance with the requirements of UL 1008, 7th Edition. See ASCO Pub. 1128 for more WCR information
- 2) Application requirements may permit higher WCR for certain switch sizes.
- 3) Based on 0.05 Sec (approx. 3 cycles) for all "Frame" ratings except D30-230A which is 0.025 Sec (approx. 1.5 cycles) and U2600-4000A which is 0.060 Secs. Applicable to circuit breakers with instantaneous trip elements
- 4) Short Time ratings are provided for applications involving circuit breakers that utilize trip delay settings for system selective coordination
- 5) Optional front connected service (Accy 40MY and 40NY) limits WCR on 1600 and 2000A G Frame switches
- 6) Switches utilizing overlapping neutral (code "C") have 35kA, 0.050 Sec time based rating at 480V Max
- 7) 3000A ratings are for Transfer Switch configurations only
- 8) J150, 200, 230 Amp available in 7ACTS, 7ADTS, 7ASLS, & All 7000 Bypass Switches only
- 9) Rating shown is for Bypass switches only, Transfer Switch rating is 100kA



SERIES 300 Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure^{1,2,3,4,5}

Switch Rating	Phase	Neutral		Dimensions, l	n. (mm)	Approx. Shipping		
Amps	Poles	Code	Width	Height	Depth	Weight Lb. (kg)		
224 -24 1224* 124	2	А	18(457)	31 (787)	13 (330)	69 (32)		
30 ⁴ ,70 ⁴ ,100 ⁴ *,104 ⁴	2	В	18(457)	31 (787)	13 (330)	72 (33)		
150 ⁴ , 200 ⁴	3	Α	18(457)	31 (787)	13 (330)	72 (33)		
*Series 3NTS only	3	В	18(457)	31 (787)	13 (330)	75 (34)		
	2	А	18 (457)	48 (1219)	13 (330)	117 (53)		
230 ³ , 260, 400	2	B ³ or C	18 (457)	48 (1219)	13 (330)	125 (57)		
230 , 200, 400	3	Α	18 (457)	48 (1219)	13 (330)	125 (57)		
	3	B ³ or C	18 (457)	48 (1219)	13 (330)	133 (61)		
150,200,230,	2	А	24(610)	56(1422)	14(356)	196 (89)		
1 ' ' '	2	В	24(610)	56(1422)	14(356)	202 (92)		
260,400	3	А	24(610)	56(1422)	14(356)	202 (92)		
Series 3ADTS/3NTS only	3	В	24(610)	56(1422)	14(356)	208 (94)		
	2	А	24 (610)	63 (1600)	17 (432)	316 (143)		
600	2	В	24 (610)	63 (1600)	17 (432)	324 (147)		
000	3	Α	24 (610)	63 (1600)	17 (432)	324 (147)		
	3	В	24 (610)	63 (1600)	17 (432)	332 (150)		
	2	А	34 (864)	72 (1829)	20 (508)	431 (196)		
800, 1000	2	В	34 (864)	72 (1829)	20 (508)	460 (209)		
000, 1000	3	Α	34 (864)	72 (1829)	20 (508)	460 (209)		
	3	В	34 (864)	72 (1829)	20 (508)	489 (222)		
	2	А	38 (965)	87 (2210)	23 (584)	581 (264)		
1200	2	В	38 (965)	87 (2210)	23 (584)	611 (277)		
1200	3	А	38 (965)	87 (2210)	23 (584)	611 (277)		
	3	В	38 (965)	87 (2210)	23 (584)	639 (290)		
1600, 2000 ¹	3	A	38 (965)	87 (2210)	23 (584)	1160 (525)		
1000, 2000	3	В	38 (965)	87 (2210)	23 (584)	1160 (525)		
2600, 3000 ²	3	А	38 (965)	91 (2311)	60 (1524)	1430 (649)		
2000, 3000	3	В	38 (965)	91 (2311)	60 (1524)	1495 (679)		

Notes:

- 1. Unit is designed for top cable entry of emergency & load and bottom entry of normal. A cable pull box is also available for all top or bottom cable access when required (optional accessory kit #K609027). Not required for type 3R, 4X & 12 enclosures where available.
- 2. Enclosures for 2600, 3000 amps are free-standing with removable top, sides & back.
- 3. Neutral Code "B" for 230 amperes only.
- 4. Dimensions for 30-200 amperes when furnished with a power meter, 18"W - 41"H - 13"D
- Dimensional data is approximate and subject to change. Certified dimensions available upon request.

UL Type 3R, 4 or 12 Enclosure^{1,2,3,4,5}

Switch Rating	Phase	Neutral	Approx. Shipping				
Amps	Poles	Code	Width	Height	Depth	Weight Lb. (kg)	l '
30 ³ ,70 ³ ,100 ³ *,104 ³	2	А	17 1/2 (445)	35 (886)	11 5/8 (295)	84 (38)	
150 ³ , 200 ³	2	В	17 1/2 (445)	35 (886)	11 5/8 (295)	87 (40)	ı
*Series 3NTS only	3	Α	17 1/2 (445)	35 (886)	11 5/8 (295)	87 (40)	
(Non Secure Enclosure)	3	В	17 1/2 (445)	35 (886)	11 5/8 (295)	90 (41)	ı
	2	А	18 (458)	50 1/2 (1284)	14 1/3 (364)	132 (60)	2.
230 ² , 260, 400	2	B ³ or C	18 (458)	50 1/2 (1284)	14 1/3 (364)	140 (63)	ĺ -
(Non Secure Enclosure)	3	Α	18 (458)	50 1/2 (1284)	14 1/3 (364)	140 (63)] 3.
,	3	B³ or C	18 (458)	50 1/2 (1284)	14 1/3 (364)	148 (67)	1
150, 200, 230	2	А	24 (607)	63 (1593)	18 1/5 (468)	234 (106)	1
260, 400 *Series 3ADTS/3NDTS only (Non Secure Enclosure)	2	В	24 (607)	63 (1593)	18 1/5 (468)	241 (109)	4.
	3	А	24 (607)	63 (1593)	18 1/5 (468)	241 (109)	1
	3	В	24 (607)	63 (1593)	18 1/5 (468)	246 (112)	1
	2	Α	24 (607)	63 (1593)	18 1/5 (468)	320 (145)	
600	2	В	24 (607)	63 (1593)	18 1/5 (468)	328 (148)	5.
(Non Secure Enclosure)	3	Α	24 (607)	63 (1593)	18 1/5 (468)	328 (148)	1
	3	В	24 (607)	63 (1593)	18 1/5 (468)	336 (152)	1
	2	Α	34 (859)	72 (1821)	20 (506)	519 (236)	
800, 1000	2	В	34 (859)	72 (1821)	20 (506)	543 (246)	
(Non Secure Enclosure)	3	Α	34 (859)	72 (1821)	20 (506)	543 (246)	1
	3	В	34 (859)	72 (1821)	20 (506)	565 (257)	1
	2	Α	41 (1037)	95 1/2 (2415)	33 1/2 (848)	1131 (513)	1
1200 ⁶	2	В	41 (1037)	95 1/2 (2415)	33 1/2 (848)	1160 (526)	
(Non Secure Enclosure)	3	Α	41 (1037)	95 1/2 (2415)	33 1/2 (848)	1160 (526)	1
	3	В	41 (1037)	95 1/2 (2415)	33 1/2 (848)	1189 (539)	1
1600, 2000 ²	3	Α	41 (1037)	95 1/2 (2415)	62 (1569)	1705 (775)	
(Non Secure Enclosure)	3	В	41 (1037)	95 1/2 (2415)	62 (1569)	1830 (832)	
2600, 3000	3	А	41 (1037)	96 (2429)	74 (1872)	2150 (976)	
(Non Secure Enclosure)	3	В	41 (1037)	96 (2429)	74 (1872)	2230 (1012)	1

Notes:

- When climate conditions at installation site present condensation risk, special precautions should be taken, such as the inclusion of space heaters, to prevent interior condensation and freezing of this condensation.
- 2. Neutral code "B" for 230 amperes only.
- 3. Dimensions for 30 200 ampere when furnished with a power meter 18"W - 48"H - 13"D
- 30-1000 ampere switches are available in secure type enclosures, contact ASCO for details
- Dimensional data is approximate and subject to change. Certified dimensions available upon request.