# ASCO SERIES 300 Service Entrance Power Transfer Switch

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

# **Product Features:**

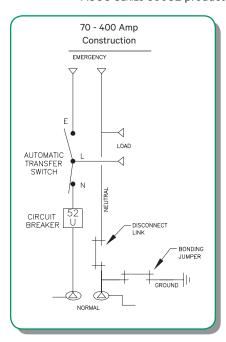
- Suitable for use as service entrance equipment.
- Sizes available from 70 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase.
- 70 400 Ampere listed to UL 1008.
   600 3000 Ampere listed to UL 891.
- Automatic Transfer Switch is listed to UL 1008 for total system loads.
- Silver plated copper ground and neutral bus with solderless screw type terminals.
- Ground fault trip protection provided on sizes 1000 amps and above.
- Available with solid or switched neutral.

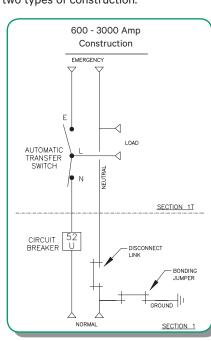


ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure



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





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

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.



## ASCO SERIES 300SE products use two types of construction.

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

J -	O3AUS ·	• 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 <sup>7</sup> Amp 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 <sup>4</sup> , 0250 <sup>4</sup> , 0400, 0600, 0800, 1000, 1200, 1600, 2000 2500, 3000		G = No Optional Accessories GX = Optional Accessories	<ul> <li>C = Type 1 (Standard)</li> <li>M = Type 3R Secure Double Door</li> <li>N = Type 4<sup>2</sup> Secure Double Door</li> <li>P = Type 4X<sup>5,8</sup> Secure Double Door 304 SS</li> <li>Q = Type 12<sup>2</sup> Secure Double Door</li> <li>R = Type 3RX<sup>5,6</sup> Secure Double Door 316 SS</li> <li>S = Type 3RX<sup>5,6</sup> Secure Double Door 304 SS</li> <li>V = Type 4X<sup>5,8</sup> Secure Double Door 304 SS</li> <li>V = Type 4X<sup>5,8</sup> Secure Double Door 316 SS</li> </ul>

Notes: 1. 115-120 volt available 150-400 amperes for 3AUS, 3NUS only. Available for 70-1600 amperes, use type 3R for 2000-3000 ampere applications.

200, 225 ampere rated switches suitable for use with copper cable only.

A solid neutral is provided as standard.

5. 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. 6. Available only on switches rated 1600, 2000, 2600 and 3000 amperes.

7. J 150-225 ampere for SERIES 3ADUS/3NDUS only.

8. Available only on switches rated 70 - 1600 amperes.

## Refer to paragraph 310.15 of the NEC for additional information. ASCO SERIES 300SE Power Transfer Switch Dimensions and Shipping Weights

## UL Type 3R Enclosure<sup>4</sup>

#### UL Type 1 Enclosure<sup>4</sup>

3.

4.

Switch Rating Amps	Phase	Neutral				Approx. Shipping
Switch Rating Amps	Poles	Code	Width	Height	Depth	Weight Lb. (kg)
	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
70, 100, 150,	2	В	36 (914)	48 (1219)	13 (330)	410 (189)
200, 225	3	A	36 (914)	48 (1219)	13 (330)	410 (189)
	3	В	36 (914)	48 (1219)	13 (330)	430 (198)
	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
150, 200, 225,	2	В	36 (914)	48 (1219)	13 (330)	408 (188)
SERIES 3ADUS/3NDUS Only	3	A	36 (914)	48 (1219)	13 (330)	408 (188)
SADOS/SINDOS ONLY	3	В	36 (914)	48 (1219)	13 (330)	420 (193)
	2	A	42 (1067)	48 (1219)	15.5 (394)	420 (193)
0501 (001	2	В	42 (1067)	48 (1219)	15.5 (394)	430 (198)
250 <sup>1</sup> , 400 <sup>1</sup>	3	A	42 (1067)	48 (1219)	15.5 (394)	430 (198)
	3	В	42 (1067)	48 (1219)	15.5 (394)	450 (207)
	2	A	38 (965)	91 (2311)	28 (711)	860 (396)
0001	2 B 38 (965) 91 (2311) 28 (711)	870 (401)				
600 <sup>1</sup>	3	A	38 (965)	91 (2311)	28 (711)	870 (401)
	3	В	38 (965)	91 (2311)	28 (711)	880 (405)
	2	A	38 (965)	91 (2311)	28 (711)	1460 (673)
0001	2	В	38 (965)	91 (2311)	28 (711)	1470 (677)
800 <sup>1</sup>	3	A	38 (965)	91 (2311)	28 (711)	1470 (677)
	3	В	38 (965)	91 (2311)	28 (711)	1480 (682)
	2	A	38 (965)	91 (2311)	48 (1218)	1460 (673)
40001 40001	2	В	38 (965)	91 (2311)	48 (1218)	1470 (677)
1000 <sup>1</sup> , 1200 <sup>1</sup>	3	A	38 (965)	91 (2311)	48 (1218)	1470 (677)
	3	В	38 (965)	91 (2311)	48 (1218)	1480 (682)
10001 20001	3	A	38 (965)	91 (2311)	48 (1218)	1580 (727)
1600 <sup>1</sup> , 2000 <sup>1</sup>	3	В	38 (965)	91 (2311)	48 (1218)	1680 (773)
25001 20001	3	A	38 (965)	91 (2311)	72 (1829)	4590 (2111)
2500 <sup>1</sup> , 3000 <sup>1</sup>	3	В	38 (965)	91 (2311)	72 (1829)	4690 (2157)

votes:	Ъ.	Unit is designed for top and bottom cable entry for all services and load.
	2	Enclosures for 600 – 3000 amps are freestanding

A space heater accessory 44G is required with all service entrance (Type 3R) switches to help reduce

#### SERIES 300SE External Power Connections

#### Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of AL-CU Wire Sizes	
70, 100, 150, 200 <sup>2</sup> , 225 <sup>2</sup>	One #14 to 4/0 AWG	
150 <sup>3</sup> , 200 <sup>3</sup> , 225 <sup>3</sup> ,	One #4 AWG to 600 MCM	
250, 400	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 300SE switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs.

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.

Use wire rated 75 degrees minimum for all power connections.

5. Refer to the outline drawing for maximum power cable connections for circuit breaker.

Switch Rating Amps	Phase	Neutral	C	Approx. Shipping		
Switch Rating Amps	Poles	Code	Width	Height	Depth	Weight Lb. (kg)
	2	A	36 (914)	48 (1219)	16 (406)	500 (232)
70, 100, 150,	2	В	36 (914)	48 (1219)	16 (406)	520 (241)
200, 225	3	A	36 (914)	48 (1219)	16 (406)	520 (241)
	3	В	36 (914)	48 (1219)	16 (406)	530 (246)
	2	A	41 (1041)	95.5 (2424)	33 (838)	500 (232)
150, 200, 225, Series	2	В	41 (1041)	95.5 (2424)	33 (838)	520 (241)
SERIES BADUS/3NDUS Only	3	A	41 (1041)	95.5 (2424)	33 (838)	520 (241)
,7200,011200 011y	3	В	41 (1041)	95.5 (2424)	33 (838)	530 (246)
	2	A	42 (1067)	48 (1219)	15.5 (394)	500 (232)
0501 (001	2	В	42 (1067)	48 (1219)	15.5 (394)	520 (241)
250 <sup>1</sup> , 400 <sup>1</sup>	3	A	42 (1067)	48 (1219)	15.5 (394)	520 (241)
	3	В	42 (1067)	48 (1219)	15.5 (394)	530 (246)
	2	A	38 (965)	91 (2311)	28 (711)	1200 (555)
6001	2	В	38 (965)	91 (2311)	28 (711)	1220 (564)
600 <sup>1</sup>	3	A	38 (965)	91 (2311)	28 (711)	1220 (564)
	3	В	38 (965)	91 (2311)	28 (711)	1240 (574)
	2	A	38 (965)	91 (2311)	28 (711)	1520 (703)
800 <sup>1</sup>	2	В	38 (965)	91 (2311)	28 (711)	1540 (712)
8001	3	A	38 (965)	91 (2311)	28 (711)	1540 (712)
	3	В	38 (965)	91 (2311)	28 (711)	1580 (731)
	2	A	38 (965)	91 (2311)	48 (1218)	1520 (703)
1000 <sup>1</sup> , 1200 <sup>1</sup>	2	В	38 (965)	91 (2311)	48 (1218)	1540 (712)
1000', 1200'	3	A	38 (965)	91 (2311)	48 (1218)	1540 (712)
	3	В	38 (965)	91 (2311)	48 (1218)	1580 (731)
10001 00001	3	A	38 (965)	91 (2311)	48 (1218)	2200 (1018)
1600 <sup>1</sup> , 2000 <sup>1</sup>	3	В	38 (965)	91 (2311)	48 (1218)	2240 (1036)
25001 20001	3	A	38 (965)	91 (2311)	72 (1829)	5280 (2479)
2500 <sup>1</sup> , 3000 <sup>1</sup>	3	В	38 (965)	91 (2311)	72 (1829)	5380 (2475)

are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G). Dimensional data is approximate and subject to change. Certified dimensions available upon request.

# Extended Warranties for SERIES 300SE Transfer Switches

(3AUS/3	NUS/3ADUS/3NDUS)
Descriptio	n
1 Year Exte	nsion (Total of 3 Years)
2 Year Exte	ension (Total of 4 Years)
3 Year Exte	ension (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<sup>1</sup>

Switch Rating	AIC Rating (KA)	Voltage
70, 100, 150, 200, 225	25,000	480
150, 200, 225 Series 3ADUS/3NDUS Only	35,000	480
250, 400, 600	35,000	480
800	65,000	480
1000, 1200	50,000	480
1600, 2000	65,000	480
2500, 3000	100,000	480

Notes: 1. Refer to SERIES 300 Publication 1195 for switch ratings.