

ASCO Power
Technologies™

ASCO SERIES 300 Power Transfer Switches Technical Data and Ordering Information



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ASCO SERIES 300 ORDERING INFORMATION

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

J	03ATS	A	3	0600	N	GX	C
FRAME	TRANSITION TYPE	NEUTRAL CODE	PHASE POLES	AMPERES	VOLTAGE CODE	GROUP CODE	ENCLOSURE
Open Transition D = 30A - 230A	Automatic 03ATS Open Transition	A = Solid Neutral B = Switched Neutral	2	0030 ¹	A ² = 115	G0	0 = Open Type (zero)
			3	0070 ¹	B ² = 120	No Optional Accessories	C = Type 1 Enclosure
Open/Delayed Transition J = 150A - 600A H = 800A - 1200A G = 1600A - 3000A	3ADTS Delayed Transition Non Automatic 03NTS Open Transition 3NDTS Delayed Transition			0104 ¹	C = 208	GX Optional Accessories	F = Type 3R ^{8,9} Enclosure
				0150 ^{1, 4}	D = 220		G = Type 4 ⁸ Enclosure
				0200 ^{1, 3, 4}	E = 230		H = Type 4X ⁸ Enclosure (304 Stainless Steel)
				0230 ^{1, 3, 4}	F = 240		L = Type 12 Enclosure
				0260 ^{1, 4}	H = 380		M = Type 3R ^{8,9} Secure Double-Door Enclosure
				0400 ^{1, 4}	J = 400		N = Type 4 ⁸ Secure Double-Door Enclosure
				0600 ¹	K = 415		Q = Type 12 Secure Double-Door Enclosure
				0800 ⁴	L = 440		R = Type 3RX ^{7,8,9} Secure Double-Door Enclosure (304 Stainless Steel)
				1000 ⁴	M = 460		S = Type 3RX ^{7,8,9} Secure Double-Door Enclosure (316 Stainless Steel)
				1200 ^{4, 5}	N = 480		U = Type 4X ⁸ Enclosure (316 Stainless Steel)
				1600 ^{4, 5}	P = 550		V = Type 4X ⁸ Secure Double-Door Enclosure (316 Stainless Steel)
				2000 ^{4, 5}	Q = 575		
				2600 ^{4, 5}	R = 600		
				3000 ^{4, 5}			

- Notes:
- 1. Switch sizes 30-600 amperes supplied in non-secure enclosures as standard.
 - 2. 115-120 volt available for 30-400 amperes only. For other voltages contact ASCO.
 - 3. 200 and 230 amperes rated switches for use with copper cable only.
 - 4. Switch sizes 800-3000 amperes, and 150-400 amperes 3ADTS/3NDTS provided in secure type outdoor enclosures when required.
 - 5. Use Type 3R secure for 1200, 2000, 2600, and 3000.
 - 6. 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.
 - 7. Available on switches rated 1200, 2000, 2600, and 3000 amperes.
 - 8. 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 enclosures (Type 3R, 4) are ordered for outdoor applications.
 - 9. Type 3R enclosures are not suitable for installations subject to wind blown rain or snow. Use Type 4 enclosures where available or install supplemental shelter protection around the 3R enclosure.

SERIES 300 EXTERNAL POWER CONNECTIONS

Size UL Listed Solderless Screw-Type Terminals

SWITCH RATING (AMPERES)	RANGES OF AL-CU WIRE SIZES (UNLESS SPECIFIED COPPER ONLY)
30-230 ¹ ATS and NTS only	One #14 to 4/0 AWG
150 ² , 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 1/0 to 750 MCM

- Notes:
- All SERIES 300 switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs.
- Use wire rated 75°C minimum for all power connections.
- 1. 200 and 230 amperes rated switches for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.
 - 2. 150 for DTS only.

SERIES 300 Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure*

SWITCH RATING AMPS	PHASE POLES	NEUTRAL CODE ¹	DIMENSIONS, IN. (MM) ²			APPROX. SHIPPING WEIGHT LB. (KG)
			WIDTH	HEIGHT	DEPTH	
30 ³ ,70 ³ ,104 ³ 150 ³ , 200 ³	2	A	18 (457)	31 (787)	13 (330)	69 (32)
	2	B	18 (457)	31 (787)	13 (330)	72 (33)
	3	A	18 (457)	31 (787)	13 (330)	72 (33)
	3	B	18 (457)	31 (787)	13 (330)	75 (34)
230	2	A	18 (457)	48 (1219)	13 (330)	117 (53)
	2	B	18 (457)	48 (1219)	13 (330)	125 (57)
	3	A	18 (457)	48 (1219)	13 (330)	125 (57)
	3	B	18 (457)	48 (1219)	13 (330)	133 (61)
260, 400	2	A	24 (610)	56 (1422)	14 (356)	250 (113)
	2	B	24 (610)	56 (1422)	14 (356)	260 (118)
	3	A	24 (610)	56 (1422)	14 (356)	260 (118)
	3	B	24 (610)	56 (1422)	14 (356)	270 (123)
150, 200, 230 SERIES 3ADTS/3NTS only	2	A	24 (610)	56 (1422)	14 (356)	250 (113)
	2	B	24 (610)	56 (1422)	14 (356)	260 (118)
	3	A	24 (610)	56 (1422)	14 (356)	260 (118)
	3	B	24 (610)	56 (1422)	14 (356)	270 (123)
600	2	A	24 (610)	63 (1600)	17 (432)	300 (137)
	2	B	24 (610)	63 (1600)	17 (432)	320 (146)
	3	A	24 (610)	63 (1600)	17 (432)	320 (146)
	3	B	24 (610)	63 (1600)	17 (432)	320 (151)
800, 1000	2	A	34 (864)	72 (1829)	20 (508)	431 (196)
	2	B	34 (864)	72 (1829)	20 (508)	460 (209)
	3	A	34 (864)	72 (1829)	20 (508)	460 (209)
	3	B	34 (864)	72 (1829)	20 (508)	489 (222)
1200	2	A	38 (965)	87 (2210)	23 (584)	581 (264)
	2	B	38 (965)	87 (2210)	23 (584)	611 (277)
	3	A	38 (965)	87 (2210)	23 (584)	611 (277)
	3	B	38 (965)	87 (2210)	23 (584)	639 (290)
1600, 2000	3	A	38 (965)	87 (2210)	23 (584)	1160 (525)
	3	B	38 (965)	87 (2210)	23 (584)	1160 (525)
2600, 3000 ⁴	3	A	38 (965)	91 (2311)	72 (1829)	1430 (649)
	3	B	38 (965)	91 (2311)	72 (1829)	1495 (679)

- Notes:
- 1. Neutral Codes: 0=None, A=Solid, B=Switched
 - 2. Dimensional data is approximate and subject to change. Certified dimensions available upon request.
 - 3. Dimensions for 30-200 ampere models when furnished with accessory 135L power meter are 18"W x 41"H x 13"D.
 - 4. Enclosures for 2600, 3000 amperes are free-standing with removable top, sides and back.

* Unit is designed for top cable entry of emergency and 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, and 12 enclosures where available.

SERIES 300 Transfer Switch Dimensions and Shipping Weights

UL Type 3R, 4 or 12 Enclosure

SWITCH RATING AMPS	PHASE POLES	NEUTRAL CODE¹	DIMENSIONS, IN. (MM)²			APPROX. SHIPPING WEIGHT LB. (KG)
			WIDTH	HEIGHT	DEPTH	
30³, 70³, 104³ 150³, 200³ (Non-Secure Enclosure)	2	A	17.5 (445)	35 (886)	11.625 (295)	84 (38)
	2	B	17.5 (445)	35 (886)	11.625 (295)	87 (40)
	3	A	17.5 (445)	35 (886)	11.625 (295)	87 (40)
	3	B	17.5 (445)	35 (886)	11.625 (295)	90 (41)
230 (Non-Secure Enclosure)	2	A	18 (458)	50.5 (1284)	14.33 (364)	90 (41)
	2	B⁴ or C	18 (458)	50.5 (1284)	14.33 (364)	132 (60)
	3	A	18 (458)	50.5 (1284)	14.33 (364)	140 (63)
	3	B⁴ or C	18 (458)	50.5 (1284)	14.33 (364)	148 (67)
260, 400	2	A	24 (610)	63 (1600)	18.2 (462)	320 (146)
	2	B	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	A	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	B	24 (610)	63 (1600)	18.2 (462)	350 (160)
150, 200, 230 SERIES 3ADTS/3NTS only (Non-Secure Enclosure)	2	A	24 (610)	63 (1600)	18.2 (462)	320 (146)
	2	B	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	A	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	B	24 (610)	63 (1600)	18.2 (462)	350 (160)
600 (Non-Secure Enclosure)	2	A	24 (610)	63 (1600)	18.2 (462)	320 (146)
	2	B	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	A	24 (610)	63 (1600)	18.2 (462)	340 (155)
	3	B	24 (610)	63 (1600)	18.2 (462)	350 (160)
800, 1000	2	A	34 (859)	72 (1821)	20 (508)	519 (236)
	2	B	34 (859)	72 (1821)	20 (506)	543 (246)
	3	A	34 (859)	72 (1821)	20 (506)	543 (246)
	3	B	34 (859)	72 (1821)	20 (506)	565 (257)
1200 (Secure Enclosure)	2	A	41 (1037)	95.5 (2415)	33.5 (848)	1131 (513)
	2	B	41 (1037)	95.5 (2415)	33.5 (848)	1160 (526)
	3	A	41 (1037)	95.5 (2415)	33.5 (848)	1160 (526)
	3	B	41 (1037)	95.5 (2415)	33.5 (848)	1189 (539)
1600, 2000 (Secure Enclosure)	3	A	42.5 (1074)	95.5 (2529)	47 (1189)	1705 (775)
	3	B	42.5 (1074)	95.5 (2529)	47 (1189)	1830 (832)
2600, 3000 (Secure Enclosure)	3	A	41 (1037)	95.5 (2529)	74 (1872)	2150 (976)
	3	B	41 (1037)	95.5 (2529)	74 (1872)	2230 (1012)

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.

- 1. Neutral Codes: 0=None, A=Solid, B=Switched, C=Overlapping
- 2. Dimensional data is approximate and subject to change. Certified dimensions available upon request.
- 3. Dimensions for 30-200 ampere models when furnished with a power meter are 18"W x 48"H x 13"D.
- 4. 30-1000 ampere switches are available in secure type enclosures, contact ASCO for details.

Withstand and Closing Ratings

FRAME	RATINGS AMPERES	CURRENT LIMITING FUSES				SPECIFIC BREAKER		
		480V MAX.	600V MAX.	MAX. SIZE, AMPS	CLASS	240V MAX.	480V MAX.	600V MAX.
D	30	100kA	-	300	J	22kA	22kA	10kA
		200kA	35kA	200	J			
		35kA	35kA	200	RK1			
	70-100	35kA	35kA	200	RK1	150kA	85kA	25kA
		200kA	35kA	200	J			
	150	35kA	35kA	200	RK1	150kA	85kA	25kA
		200kA	35kA	200	J			
	200	200kA	35kA	200	J	200kA	85kA	14kA
		35kA	35kA	200	RK1			
	230	100kA	-	300	J	200kA	85kA	14kA
E	260, 400	200kA	-	600	J	65kA	42kA	22kA
J	150, 200, 260	200kA	200kA	600	J	200kA	200kA	42kA
				800	L			
	400	200kA	200kA	600	J	65kA	50kA	42kA
				800	L			
	600	200kA	200kA	600	J	65kA	85kA	42kA
				800	L			
H	800-1200*	200kA	200kA	1200	L	65kA	150kA	65kA
G	1600-2000	200kA	200kA	2500	L	85kA	85kA	85kA
	2600-3000	200kA	200kA	4000	L	125kA	125kA	100kA
	4000	200kA	200kA	5000	L	100kA	100kA	100kA

Notes:

* Front connection only

All units are RMS Symmetrical Amperes

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

Application requirements may permit higher WCR for certain switch sizes.

EXTENDED WARRANTIES FOR SERIES 300 TRANSFER SWITCHES (3ATS/3NTS/3ADTS/3NDTS)

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

Notes:

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.

Refer to Publication 3223 for warranty terms and conditions.

For more details, please contact customer@ascopower.com



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