



SERIES TS 840 • 100 - 800 AMP AUTOMATIC TRANSFER SWITCH

AGRICULTURAL



TS 840 BYPASS AUTOMATIC TRANSFER SWITCHES OFFER:

ENCLOSED CONTACT POWER SWITCHING UNITS

- Fully enclosed silver alloy contacts provide high withstand rating & 100% continuous current rating
- 3 cycle short circuit current withstand
- Completely isolated utility and generator side power switching units
- Power switching units can incorporate overcurrent protection, allowing cost savings in upstream devices
- Not damaged if manually switched while in service since contacts have inherent spring over center design

RELIABLE MOTOR-OPERATED TRANSFER MECHANISM

- Heavy duty brushless gearmotor and operating mechanism provide mechanical interlocking and extreme long life
- Safe manual operation permits operation under adverse conditions

SUPERIOR SERVICEABILITY

- All mechanical and control devices are visible and front accessible
- All control wires and power busses are front-accessible there are no wires or connections which require removal of the transfer switch from its enclosure for servicing

CONTROL FEATURES

- TSC 9 microprocessor based controller
- NEMA® 3R enclosure for outdoor weatherproof applications
- Isolation plug permits disconnecting control circuits from all power sources

QUALITY ASSURANCE:

- ISO 9001 Registered

SEISMIC CERTIFICATION

TS 840 ATS is certified for installation and operation per the following requirements:

- IBC 2006 - Section 13, Occupancy Category IV
- ASCE7 - 05 Region 3 (minimum SS=342%)

SAFETY STANDARDS

- UL 1008 Automatic Transfer Switches for use in Emergency Systems
- CSA C22.2 No. 178 Automatic Transfer Switches

WARRANTY

- 2 year limited warranty included

TS 840 Automatic Transfer Switches employ two mechanically interlocked enclosed contact power switching units and a microprocessor based controller to automatically transfer system load to a generator supply in the event of a utility supply failure. System load is automatically retransferred back to the utility supply following restoration of the utility power source to within normal operating limits. TS 840 Automatic Transfer Switches provide an open transition “break-before-make” transfer system with neutral position delay to ensure adequate voltage decay to prevent out of phase transfers.

TS 840 Automatic Transfer Switches are specifically designed and certified by UL 1008 and CSA C22. No.178 nationally recognized safety standards for use in emergency systems at 240VAC. High withstand current ratings have been achieved using 3 cycle short circuit testing in accordance with UL 1008/CSA 178 standards. This allows flexible system over current coordination by utilization of non-series rated upstream protective devices. TS 840 ATS models can be utilized in light industrial, telecom and agricultural applications which legally require automatic standby power.

TS 840 Automatic Transfer Switches are available in two basic model types: Standard ATS and Service Entrance Rated (SE). Service Entrance Rated Automatic Transfer Switches incorporate an isolating mechanism and over current protection on the utility supply thereby removing the need to have a separate, upstream circuit breaker/disconnect switch from the transfer switch. This unique Service Entrance Rated ATS design is incorporated into a standard sized Automatic Transfer Switch enclosure providing a space-saving, cost effective solution for most applications. TS 840 SE Service Disconnect operation is very simple and ensures a high level of safety for system maintenance personnel when performed. Normal operation and performance of the Automatic Transfer Switch is unaffected by the Service Entrance feature.

TS 840 Automatic Transfer Switches use a type TSC 9 Microprocessor Based Controller which provides all necessary control functions for fully automatic operation.

* See last page for attribution.

WITHSTAND CURRENT RATINGS (ALL MODELS)

MODEL	RATED CURRENT (AMPS)	MAXIMUM VOLTAGE	WITHSTAND CURRENT RATING AMPS (RMS) ¹		
			WITH UPSTREAM CIRCUIT BREAKER PROTECTION		WITH UPSTREAM FUSE PROTECTION
			@240V	@UP TO 240V	FUSE TYPE
TS 84xA - 0100	100A	240	65,000	100,000	T,J
TS 84xA - 0150	150A	240	65,000	100,000	T,J
TS 84xA - 0200	200A	240	65,000	100,000	T,J
TS 84xA - 0250	250A	240	65,000	100,000	T,J
TS 84xA - 0400	400A	240	65,000	100,000	T,J
TS 84xA - 0600	600A	240	65,000	100,000	T,J
TS 84xA - 0800	800A	240	65,000	100,000	Consult Factory

ENCLOSURE DIMENSIONS/CABLE TERMINALS (NEMA®* 3R, ASA #61 GRAY)

AMPER-AGE	# OF POLES	DIMENSIONS ¹			SHIPPING WEIGHT lbs (kg)	TERMINAL RATING ²	
		HEIGHT INCHES (mm)	WIDTH INCHES (mm)	DEPTH ³ INCHES (mm)		QTY (PER PHASE)	RANGE
100A	2, 3	31.1" (790)	22.3" (566)	14.0" (356)	143 lbs (65)	1	#14 - 1/0
100A w/Dist ²	2, 3	43.1" (1095)	34.3" (871)	13.0" (330)	233 lbs (106)	1	#14 - 1/0
150A	2, 3	31.1" (790)	22.3" (566)	14.0" (356)	143 lbs (65)	1	#2 - 4/0
150A w/Dist ²	2, 3	43.1" (1095)	34.3" (871)	13.0" (330)	233 lbs (106)	1	#2 - 4/0
200A	2, 3	31.1" (790)	22.3" (566)	14.0" (356)	143 lbs (65)	1	#6 - 350 mcm
200A w/Dist ²	2, 3	43.1" (1095)	34.3" (871)	13.0" (330)	237 lbs (108)	1	#6 - 350 mcm
250A	2, 3	35.1" (892)	27.3" (693)	14.0" (356)	172 lbs (78)	1	#6 - 350 mcm
250A w/Dist ²	2, 3	43.1" (1095)	34.3" (871)	13.0" (330)	251 lbs (114)	1	#6 - 350 mcm
400A	2, 3	43.1" (1095)	34.3" (871)	13.0" (330)	227 lbs (103)	2	2/0 - 500 mcm
400A w/Dist ²	2, 3	63.1" (1603)	40.8" (1036)	14.5" (368)	354 lbs (161)	2	2/0 - 500 mcm
600A	2, 3	46.1" (1171)	36.3" (922)	14.5" (368)	248 lbs (113)	2	2/0 - 500 mcm
600A w/Dist ²	2, 3	63.1" (1603)	40.8" (1036)	14.5" (368)	358 lbs (163)	2	2/0 - 500 mcm
800A	2, 3	48.1" (1222)	37.8" (960)	18.0" (457)	309 lbs (141)	3	2/0 - 500 mcm
800A w/Dist ²	2, 3	63.1" (1603)	40.8" (1036)	18.0" (457)	422 lbs (192)	3	2/0 - 500 mcm

¹ Enclosure dimensions are for reference. (DO NOT USE FOR CONSTRUCTION).

² Enclosures for models with Distribution Breaker Options (Dist 2 or Dist 4)

³ All cable connections suitable for copper or aluminum.

⁴ Optional terminal ratings are available in some models

- Consult Thomson Power Systems

* See last page for attribution.

STANDARD FEATURES (WITH TSC 9 CONTROLLER)

- Normal Operation Status LED Lights: Load on Utility & Load on Generator, Utility & Generator Source Available, Engine Start Activated, Load Shed Activated
- Diagnostic LEDs: System OK, Alarm, Wait For Transfer, Diagnostic
- USB Port Factory Programming/Diagnostic
- 3 Phase Voltage sensing on Utility and Generator
- Generator AC frequency sensing
- Utility under voltage control set point 70% dropout
- Generator Set points: under voltage 70% dropout, under frequency 90% pick-up
- Engine warmup timer (Selectable 3, 10, 30, 60 sec, disabled)
- Utility return timer (Selectable 3, 10, 60, 120 sec)
- Engine start timer (Selectable 3, 6, 10, or disabled)
- Engine cooldown timer (Selectable 3, 60, 120, 300 sec)
- Integrated Programmable Generator Exercise Timer with easy to configure 7, 14 or 28 day, On-load or Offload exercise selection.
- Exercise initiate pushbutton indication
- Local utility power fail simulation test pushbutton
- Engine start contact (5A, 120/240VAC resistive max.)
- Load Shed contact (5A, 120/240VAC resistive max.)
- Alarm Output (100ma, 24Vdc)
- Auxiliary Contact - Utility side (10A, 120/240VAC res. Qty 1, Form C)
- Auxiliary Contact - Generator side (10A, 120/240VAC res. Qty 1, Form C)
- Provision for Remote Load Test/Peak Shave Switch Input
- NEMA® 3R Enclosure
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Temperature: -40°C to 50°C (-40°F to 122°F)
- Humidity: 95% non-condensing

ORDERING INFORMATION

When placing an order, specify the following 21 digit ATS MODEL CODE as per the features and applications described below.

1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
 T S

8	4																		
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1-3. SERIES

TS - TRANSFER SWITCH

4 & 5. MODEL

84 - 840 SWITCH

6. POLES

2 - 2 POLE
 3 - 3 POLE

7. CONFIGURATION TYPE

A - ATS

8 - 11. AMPERAGE

0100
 0150
 0200
 0250
 0400
 0600
 0800

12. APPLICATION

A - STANDARD
 B - SERVICE ENTRANCE

13. OPERATION TYPE

1 - OPEN TRANSITION

14. SAFETY STANDARD

A - UL 1008 (Service Entrance)
 B - CSA C22.2 NO 178
 C - UL 1008 / CSA 178

15. VOLTAGE

1Ø 3 WIRE
 D - 120/240

3Ø 4 WIRE (GROUNDED NEUTRAL)
 E - 120/208
 G - 120/240 (DELTA)

16. CONTROLLER

2 - TSC 9

17. ENCLOSURE TYPE

D - NEMA3R SD, ASA #61 GRAY
 E - NEMA3R DD, ASA #61 GRAY(800A ONLY)

18. UTILITY SWITCHING DEVICE

K - MOLDED CASE SWITCH (100 - 1200A)
 M - MOLDED CASE SWITCH C/W THER-MAG TRIP (100-200A)
 N - MOLDED CASE SWITCH C/W ELECTRONIC TRIP (250-800A)

19. GENERATOR SWITCHING DEVICE

K - MOLDED CASE SWITCH (100 - 800A)
 M - MOLDED CASE SWITCH C/W THER-MAG TRIP (100-200A)
 N - MOLDED CASE SWITCH C/W ELECTRONIC TRIP (250-800A)

20. POWER CONNECTIONS

A - STANDARD

21. ATS CONNECTION CONFIGURATION³

A - STANDARD

* See last page for attribution.

AVAILABLE IN STOCK

The following standard ATS models are available from stock:

MODEL	AMPERAGE	2 POLE (SINGLE PHASE, 3 WIRE WITH NEU- TRAL)	STANDARD ATS	SERVICE ENTRANCE RATED ATS	VOLTAGE	TSC 9 CONTROLLER	NEMA 3R ENCLOSURE
TS842A0200A1CD2DKKAA	200A	■	■		120/240V	■	■
TS842A0200B1AD2DNKAA	200A	■		■	120/240V	■	■
TS842A0250A1CD2DKKAA	250A	■	■		120/240V	■	■
TS842A0250B1AD2DNKAA	250A	■		■	120/240V	■	■
TS842A0400A1CD2DKKAA	400A	■	■		120/240V	■	■
TS842A0400B1AD2DNKAA	400A	■		■	120/240V	■	■
TS842A0600A1CD2DKKAA	600A	■	■		120/240V	■	■
TS842A0600B1AD2DNKAA	600A	■		■	120/240V	■	■

OPTIONAL FEATURES (Specify separately from ATS MODEL CODE when ordering)

CODE	DESCRIPTION
Dist 2	Load Distribution Breakers (Qty 2, 200A, 2 Pole Only)
Dist 4	Load Distribution Breakers (Qty 4, 200A, 2 Pole Only)
Dist 6	Load Distribution Breakers (Qty 6, 200A, 2 Pole Only)
TS - H1	Enclosure Strip Heater c/w Thermostat (120VAC External Power Source Required)
TS - H2	Enclosure Strip Heater c/w Thermostat (Internally Powered from ATS Load)
SPD1PH - 240	Surge Protection Device - Single phase 240VAC Max
SPD3PH - 208	Surge Protection Device - Three phase 208VAC Max



Regal Rexnord

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