



# SERIES TS 930 • 125 - 2000 AMP AUTOMATIC TRANSFER SWITCHES

EXPORT IEC RATED



## THOMSON POWER SYSTEMS TS 930 AUTOMATIC TRANSFER SWITCHES OFFER THE FOLLOWING:

### POWER CONTACTOR SWITCHING UNITS

- 100% Continuous Current Ratings for use with all load types
- Suitable for copper power cable connections
- High Short Circuit Withstand Ratings when used with upstream molded case circuit breakers

### RELIABLE SOLENOID OPERATED TRANSFER MECHANISM

- Three Position Power Contactor provides optional neutral delay position
- Single Coil Power Contactor Design for reliable operation
- Excellent Breaking capacity utilizing large arc chambers
- Electrical and Mechanical Interlocked mechanism prevents simultaneous closure between Utility and Generator sources

### SUPERIOR SERVICEABILITY

- Plug-in Control Devices allow superior field serviceability
- Enclosed Power Contacts for safe operation and maintenance

### CONTROL FEATURES

- Door Mounted ATS Controller, Graphical LCD Display with user programmable timers and protection set points
- Load Power Metering (Optional)
- Choice of Deep Sea Electronics™ or ComAp™ ATS controller
- Programmable Inputs & Outputs

### PRODUCT DATA

- 125A - 2000A Models
- 120 - 480V, 3 Phase 4 wire c/w Neutral
- 24Vdc Control Power (12Vdc optional)
- 3 Pole, 50/60hz
- NEMA 1 Enclosure (NEMA 3 Enclosure optional)

### QUALITY ASSURANCE

- ISO 9001 Registered Manufacturing Facilities

### SAFETY STANDARDS

- Complies with IEC 947 - 6 - 1 Automatic Transfer Switches

### WARRANTY

- 2 year limited warranty included

**Thomson Power Systems TS 930** Automatic Transfer Switches employ a power contactor switching unit with a micro-processor based controller to automatically start a generator and transfer system load to the generator supply in the event of a utility supply failure. System load is automatically re-transferred back to the utility supply following restoration of the utility power source to within normal operating limits. All load transfer sequences are "Open Transition" (i.e. "break-before-make"). Molded case circuit breakers or fuses with overcurrent protection are required upstream of the transfer switch. The standard TS 930 Automatic Transfer Switch is rated for 100% system load.

The TS 930 Transfer Switches use a microprocessor based controller with all the necessary control functions for fully automatic operation. The ATS controller is door mounted and operating status is provided via LED indicators and LCD graphical display.

### STANDARD FEATURES

- Normal Operation Status LED Lights: Load on Utility & Load on Generator, Utility & Generator Source Available
- 3 Phase Voltage sensing on Utility & Generator Sources
- Generator AC frequency sensing
- Utility under voltage control setpoint
- Generator Setpoints: under voltage (adjustable), under frequency (adjustable)
- Front Panel configurable or via Serial/USB port
- Engine warmup timer (adjustable)
- Utility return timer (adjustable)
- Engine start timer (adjustable)
- Engine cooldown timer (adjustable)
- Local utility power fail simulation test pushbutton & LED, front faceplate mounted
- Engine start contact (5A, 120/240VAC resistive max.)
- Multi-Language support
- RTC Event and Performance Logs
- In-Phase Transfer with Passive Sync Check



## ELECTRICAL RATINGS/ENCLOSURE DIMENSIONS/CABLE TERMINALS

MODEL	AMPERAGE	MAX VOLTAGE	POLES	WITHSTAND CURRENT RATING (1cm @ 480VAC)	DIMENSIONS <sup>1</sup>			SHIPPING WEIGHT lbs (kg)	TERMINAL RATING <sup>2</sup>	
					HEIGHT INCHES (mm)	WIDTH INCHES (mm)	DEPTH INCHES (mm)		QTY (PER PHASE)	RANGE
TS933A0125A	125A	480V	3	7.65kA	33" (838)	19" (483)	11" (279)	55 lbs (25)	1	#14 - 2/0
TS933A0160A	160A	480V	3	17kA	33" (838)	19" (483)	11" (279)	55 lbs (25)	1	#6 - 300 mcm
TS933A0200A	200A	480V	3	17kA	33" (838)	19" (483)	11" (279)	60 lbs (27)	1	#6 - 300 mcm
TS933A0250A	250A	480V	3	17kA	33" (838)	19" (483)	11" (279)	60 lbs (27)	1	#6 - 350 mcm
TS933A0400A	400A	480V	3	24kA	45" (1143)	25" (635)	11" (279)	105 lbs (48)	2	#2/0 - 500 mcm
TS933A0630A	630A	480V	3	24kA	45" (1143)	25" (635)	11" (279)	110 lbs (50)	2	#2/0 - 500 mcm
TS933A0800A	800A	480V	3	52.5kA	74" (1880)	30" (762)	26" (660)	570 lbs (259)	4	#4 - 600 mcm
TS933A1000A	1000A	480V	3	52.5kA	74" (1880)	30" (762)	26" (660)	570 lbs (259)	4	#4 - 600 mcm
TS933A1250A	1250A	480V	3	63kA	74" (1880)	30" (762)	26" (660)	585 lbs (265)	4	#4 - 600 mcm
TS933A1600A	1600A	480V	3	73.5kA	74" (1880)	30" (762)	26" (660)	600 lbs (272)	4	#4 - 600 mcm
TS933A2000A	2000A	480V	3	84kA	84" (2134)	33" (838)	33" (838)	850 lbs (386)	6	#4 - 600 mcm

- 1 Enclosure dimensions are for reference. (DO NOT USE FOR CONSTRUCTION)  
 2 All cable connections rated for copper conductors only

## OPTIONAL ACCESSORIES (FIELD INSTALLABLE)

The following optional field installable accessory kits can be ordered separately by specifying the following item codes:

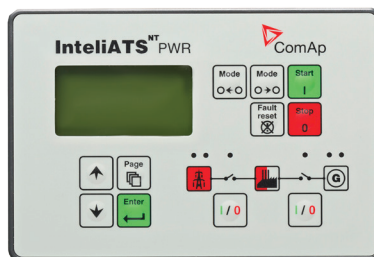
CODE	DESCRIPTION
TS930-N3R250A	125A - 250A NEMA 3R Door Kit
TS930-N3R630A	400A - 630A NEMA 3R Door Kit
TS930-HTR	Enclosure Heater Kit, 220VAC
TS930-12VDCC	12V Adapter Kit
TS930-PRGCBL	Programming Cable, ComAP™
TS930-ETHCBL	Ethernet Cable, ComAP™
TS930-LPM-250	Load Power Metering (V, A, F, kW), 125A - 250A Current Transformer
TS930-LPM-400	Load Power Metering (V, A, F, kW), 400A Current Transformer
TS930-LPM-800	Load Power Metering (V, A, F, kW), 630A - 800A Current Transformer
TS930-LPM-1250	Load Power Metering (V, A, F, kW), 1000A - 1250A Current Transformer
TS930-LPM-2000	Load Power Metering (V, A, F, kW), 1600A - 2000A Current Transformer

## SPECIFY ATS CONTROLLER

Deepsea™ DSE334



ComAp™ InteliATS<sup>NT</sup> PWR



## ORDERING INFORMATION

Automatic Transfer Switch models are listed in the Electrical Rating Chart found on page 3. Please specify 11 digit model code (eg. TS933A0125A - CA or TS933A0125A - DS) plus code number for the controller and required optional items.

## CONTROLLER OPTION:

CODE	DESCRIPTION
CA	ComAp™ IntelliATS <sup>NT</sup> PWR ATS Controller
DS	Deepsea™ DSE334 ATS Controller



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NOTE: Specifications subject to change without notice.

### APPLICATION CONSIDERATIONS

The proper selection and application of power generation products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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