

## Nexus™ LTS

### Nexus™ LTS Series Load Shedding Automatic Transfer Switch

200 Amp Service Rated, NEMA 3R  
Model RTSJ200A3 – 200 Amp Switch



## DESCRIPTION

The Nexus™ LTS is designed to allow the most efficient use of the generator by monitoring and managing the backed up selected and non-selected circuits. If the generator approaches overload condition, the non-selected circuits are cycled off, allowing the selected circuits to remain powered. This switch is designed to operate with the digital Nexus controllers that are used on air-cooled and liquid-cooled generators from 8 kW through 48 kW.

## STANDARD FEATURES

The LTS is housed in an aluminum NEMA 3R enclosure. It is service entrance rated at 200 amps and also has a built-in 16 circuit priority load center. The main contactor protects the selected priority circuits while the secondary contactor protects the remaining, non-selected circuits located in the existing electrical panel. The cover is side hinged for easy access.

## CONTACTOR RATING

The transfer switch contactor is rated at 250 VAC and is available in single phase configuration only.

## DLM TECHNOLOGY

Digital Load Management technology (DLM) allows the transfer switch to monitor generator performance and only shed loads when absolutely necessary by monitoring generator frequency. By only shedding the non-essential circuits, the essential circuits are always powered.

## 200 Amps

## Nexus™ LTS Transfer Switch

### Functions

All Timing and sensing functions originate in the generator controller

Utility voltage drop-out.....	<60%
Timer to generator start.....	10 second factory set, adjustable between 10-30 seconds
Engine warm up delay.....	5 seconds
Standby voltage sensor.....	.60% for 5 seconds
Utility voltage pickup.....	>80%
Re-transfer time delay.....	15 seconds
Engine cool-down timer.....	60 seconds
Exerciser.....	12 minutes every 7 days

All Load Shed and Automatic load return timing and sensing functions originate in the LTS load shed controller

Load shed activation.....	.58 Hz for >3 seconds or below 50 Hz for >1/2 second
Automatic load return.....	Adjustable

The transfer switch can be operated manually without power applied.

### Specifications

No. of Poles	2
Current Rating (amps)	200
Voltage Rating (VAC)	250
UL Listed	Standard
Dimensions (H" x W" x D")	42 x 20 x 7.25
Total of Pre-wired Circuits in Priority Load Center	16
No. 15A 120V	5
No. 20A 120V	5
No. 20A 240V	1
No. 40A 240V	1
No. 50A 240V	1
Circuit Breaker Protected Available RMS Symmetrical Fault Current @ 250 Volts	10,000
Enclosure Type	NEMA 3R
Load Transition Type	Open Transition

### Features

- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R (indoor/outdoor rated) aluminum enclosure is standard.

### Dimensions and Wire Ranges

Mechanical Dimensions (in inches)					
Height (in./mm)		Width (in./mm)		Depth (in./mm)	Weight (lbs./kilos)
H1	H2	W1	W2		
39.3/998.2	42.3/1074.4	17.9/454.7	20.1/510.5	7.9/180.1	80/36.29

  

Terminal Wire Ranges			
ATS Rated Amps	CB Terminal	Neutral Lug Assy	Ground Assy
200A 2-Pole UL	2 x 300 MCM - #1	4 x 350 MCM - #6	5 x #4 - #14
Mounting Holes	4 x .25 Diameter		

