Electromechanical Power Products

**CXP-3 Series**
Track Circuit Uninterruptible Power Supplies

**ST-200-1 Series**
Track Transformers

**ST-400 Series**
Signal / Track Transformers

**SLT Series**
Fixed Voltage Lighting Transformers

**LT Series**
Lighting Transformers

**SJ Series**
Battery Chargers

E1 - E2
E3 - E4
E5 - E6
E7 - E8
E9 - E10
E11 - E12
Model A44350
shown for reference purposes only!
Actual unit selected may vary in mounting and features.

SIEMENS Track Circuit Uninterruptible Power Supply (CXP-3) offers a track feed transformer, a power transfer relay and a standby inverter all in a single compact housing.

When used as part of a Type C track circuit, the CXP-3 acts as a track feed transformer and is operated utilizing 115 VAC input power. When unforeseen AC power interruptions occur, the CXP-3 converts standby battery power to output voltage matching the same RMS value as the output would see under normal operating conditions.

The standby inverter is activated through the internal power transfer relay, which is triggered AC power is lost and operates at high efficiency (88% at half power) to maximize run time on battery life.

The operating frequency is maintained to within 1 Hz of nominal power consumption under any normal voltage, load or temperature condition.

Surge protection for solid state circuitry consists of (7) separate stages, including metal oxide varistors (MOV’s), transorsbs, zeners, inductors and capacitors. All electronic components are isolated from chassis and outputs are isolated from the operating battery.
### Narrow Chassis Assembly Configuration Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>8&quot; (20.3 cm)</td>
<td>Frame</td>
</tr>
<tr>
<td>Overall</td>
<td>8.8&quot; (22.4 cm)</td>
<td>Typ.</td>
</tr>
<tr>
<td>Overall</td>
<td>9.4&quot; (23.9 cm)</td>
<td>Overall</td>
</tr>
<tr>
<td>Mounting Typ.</td>
<td>2.5&quot; (6.35 cm)</td>
<td></td>
</tr>
<tr>
<td>Mounting Typ.</td>
<td>1 1/4&quot; (3.18 cm)</td>
<td></td>
</tr>
</tbody>
</table>

**Electromechanical Systems**

**Electromechanical Power Products**

SIE-RA-CMP-001-18-EN
**Overview**

**Model A44562 ST-200-1 Series Track Transformer**

*shown for reference purposes only!  
Actual unit selected may vary in mounting and features.*

**SIEMENS ST-200-1 Track Transformer** is a 200 VA, 60 Hz to 250 Hz transformer, developed for use with Siemens SE-3 Track Circuits. It may also be used as a general purpose step up, or step down transformer for many applications. It has a two terminal track winding which will accept or deliver up to 12 volts (16 amps). The two terminal receiver winding is isolated from the former, and will accept or deliver up to 120 volts (1.6 amps).

The ST-200-1 is mounted in an aluminum extruded housing, which provides excellent heat transfer from the windings, and also allows flexibility in mounting. Tab brackets located in slots in the extrusion, allow mounting directly to a relay rack, where the transformer mounts in the same space as an ST-2 relay frame footprint. Tab brackets can be easily relocated for backboard or shelf mounting as well. Terminals are the standard AREMA® post type, rather than the commercial spade type.

**NYK:400044560001X**

- Meets or exceeds applicable AREMA® specifications on recommended practices regarding 3000 VAC breakdown voltage.
- Easily mountable on standard relay racks, instrument house backboards or can even be shelf mounted when removing included mounting bracket.
- Weight is approx. 15 lbs. (6.80 kgs.) including connectors.
- Operates in -40° F to +160° F (-40°C to +70°C) @ up to 95% Non-Condensing Relative Humidity.
- 6.3 VAC 3.5 Amp power supply.
- (1) 15 Amp battery fuse.
- (1) 1.5 Amp line fuse.
- (4) Output battery connections.
- 115 VAC Input connection.
- 12 VDC Input connection.

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Use of them does not imply any affiliation with or endorsement by respective holders.*
Applicable for all ST-200 Series Track Transformers

See note 2 for mounting hole pattern

ST-200-1 TRACK TRANSFORMER
200 VA
60/200 HZ

9" (22.9 cm)
Frame

10.25" (26.0 cm)
Overall

9" (22.9 cm)
Frame

7.25" (18.4 cm)
Frame

9.4" (23.9 cm)
Overall

5" (12.7 cm)
Overall

Electromechanical Systems
Electromechanical Power Products

E4
Overview

Model A44560  
*shown for reference purposes only!*

*Actual unit selected may vary in mounting and features.*

**SIEMENS** ST-400 Signal / Track Transformer is a 400 VA, 60 Hz to 200 Hz transformer, developed for use with **SIEMENS** SE-3 Track Circuits.

It may also be used as a general purpose step up, or step down transformer for many applications. It has a two terminal track winding which will accept or deliver up to 12 volts (16 amps). The two terminal receiver winding is isolated from the former, and will accept or deliver up to 120 volts (1.6 amps).

The ST-400 is mounted in an aluminum extruded housing, which provides excellent heat transfer from the windings, and also allows flexibility in mounting. Tab brackets located in slots in the extrusion, allow mounting directly to a relay rack, where the transformer mounts in the same space as an ST-2 relay frame footprint. Tab brackets can be easily relocated for backboard or shelf mounting as well. Terminals are the standard AREMA® post type, rather than the commercial spade type.

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### Applicable for all ST-400 Series Signal / Track Transformers

<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Output Voltage</th>
<th>Primary Tap / Voltage Amperage</th>
<th>Secondary Tap / Voltage Amperage</th>
<th>Hertz</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYK:010560-X</td>
<td>396 VA Max.</td>
<td>120 VAC / 1.65 A</td>
<td>18 VAC, 11.0 A</td>
<td>50 / 200</td>
<td>27.0 lbs (12.25 kgs.)</td>
</tr>
<tr>
<td>NYK:010560-X-1</td>
<td>396 VA Max.</td>
<td>120 VAC / 1.65 A</td>
<td>18 VAC, 11.0 A</td>
<td>50 / 200</td>
<td>20.0 lbs (9.07 kgs.)</td>
</tr>
<tr>
<td>NYK:010560-X-2</td>
<td>400 VA Max.</td>
<td>120 VAC / 3.30 A</td>
<td>18 VAC, 22.0 A</td>
<td>60 / 200</td>
<td>27.0 lbs (12.25 kgs.)</td>
</tr>
</tbody>
</table>

### Notes:
1. Generic depiction of ST-400 Series frame dimensions for representation purposes only!
2. Staggered mounting bracket hole pattern is 3" (7.6 cm) on center and matches relay bar mounting hole configuration for ST series relay center to center dimensions.
Overview

Model A44520 SLT Series Fixed Signal Lighting Transformer shown for reference purposes only!
Actual unit selected may vary in mounting and features.

**SIEMENS** Fixed Lighting Transformers (SLT Series) are available in two models of 20 and 50 amperes.

Secondary voltage taps are provided for 1 to 15.5 VAC. Excellent voltage regulation is assured through use of heavy cores and windings. These transformers may be shelf, backboard, or relay rack mounted.

Terminals are the standard AREMA® post type, rather than the commercial spade type.
### Applicable for all SLT Series Fixed Signal Lighting Transformers

<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Primary Voltage</th>
<th>Secondary Voltage</th>
<th>Output Amperage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYK:400044520020X</td>
<td>115 / 230 VAC</td>
<td>1 - 15.5 VAC</td>
<td>20 A</td>
<td>15.0 lbs (6.80 kgs.)</td>
</tr>
<tr>
<td>NYK:400044520050X</td>
<td>115 / 230 VAC</td>
<td>1 - 15.5 VAC</td>
<td>50 A</td>
<td>27.0 lbs (12.25 kgs.)</td>
</tr>
</tbody>
</table>

**Assemblies and Dimensions**

*8.5" (21.59 cm) Overall*

*7.5" (19.05 cm) Center to Center*

*6.0" (15.24 cm) Center to Center*

*7.13" (18.11 cm) Overall*
Overview

Model A44599 LT Series Lighting Transformer shown for reference purposes only!
Actual unit selected may vary in mounting and features.

SIEMENS Lighting Transformers (LT Series) are available in two models of 20 and 50 amperes.

Secondary voltage taps are provided for 1 to 15.5 VAC. Excellent voltage regulation is assured through use of heavy cores and windings. These transformers may be shelf, backboard, or relay rack mounted.

Terminals are the standard AREMA® post type, rather than the commercial spade type.
<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Primary Voltage</th>
<th>Secondary Voltage</th>
<th>Output Amperage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYK:400044599101X</td>
<td>115 VAC</td>
<td>10.0 - 13.5 VAC</td>
<td>5 A</td>
<td>4.0 lbs. (1.81 kgs.)</td>
</tr>
<tr>
<td>NYK:400044599103X</td>
<td>230 VAC</td>
<td>10.0 - 13.0 VAC</td>
<td>5 A</td>
<td>4.0 lbs. (1.81 kgs.)</td>
</tr>
<tr>
<td>NYK:400044599106X</td>
<td>115 VAC</td>
<td>0.2 - 13.5 VAC</td>
<td>5 A</td>
<td>4.0 lbs. (1.81 kgs.)</td>
</tr>
<tr>
<td>NYK:400044599110X</td>
<td>115 VAC</td>
<td>4.0 - 24.0 VAC</td>
<td>50 VA</td>
<td>4.0 lbs. (1.81 kgs.)</td>
</tr>
</tbody>
</table>
**Overview**

- Line Voltage Switch
- AC Input Connectors
- Ground Lug
- Voltage Display Pushbutton
- Float Voltage Adjustment
- LED Digital Display
- Battery Connectors
- AC Input Fuses
- DC Output Breaker
- Cell Quantity Selection
- LED Indicators
- Temperature Probe Connector

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**Features**

- (2) Battery selection modes
  - Lead Acid or Nickle Cadmium (NiCad)
- (2) Operation modes
  - Constant Current or Constant Voltage
- Float voltage can be adjusted with the battery connected. *(When in Constant Voltage mode)*
- Pushbutton to display voltage on demand
- LED indicators and digital display
- Supplied with transient suppression devices across the input and output terminals

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*Model A04863 SJ Series Battery Charger shown for reference purposes only!  
Actual unit selected may vary in mounting and features.*

**SIEMENS** Battery Charger (SJ) Series offers long term, reliable charge maintenance of lead acid and nickle cadmium (NiCad) batteries and are ideally suited where remote installation, extreme temperatures and minimal maintainer involvement is expected.
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<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Primary Voltage (VAC)</th>
<th>Output Voltage (VDC)</th>
<th>Output Current</th>
<th>Current Limit</th>
<th>Cell Selection Range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYK:Z927048610000</td>
<td>8.2 A @ 115 4.1 A @ 230</td>
<td>10.0 - 18.8 (Lead Acid) 6.5 - 19.0</td>
<td>20 A</td>
<td>21.5 (± 5%)</td>
<td>5-8 (Lead Acid) 15-12 (NiCad)</td>
<td>27.0 lbs (12.25 kgs.)</td>
</tr>
<tr>
<td>NYK:Z927048630030</td>
<td>24.6 A @ 115 12.3 A @ 230</td>
<td>22.0 - 42.4 (Lead Acid) 24.7 - 41.0 (NiCad)</td>
<td>30 A</td>
<td>32.0 (± 5%)</td>
<td>11-18 (Lead Acid) 19-26 (NiCad)</td>
<td>60.0 lbs (27.22 kgs.)</td>
</tr>
<tr>
<td>NYK:Z927048630040</td>
<td>16.4 A @ 115 8.2 A @ 230</td>
<td>10.0 - 18.9 (Lead Acid) 6.5 - 19.0</td>
<td>40 A</td>
<td>43.0 (± 5%)</td>
<td>5-8 (Lead Acid) 15-12 (NiCad)</td>
<td>45.0 lbs (20.41 kgs.)</td>
</tr>
</tbody>
</table>

Optional Accessories

<table>
<thead>
<tr>
<th>SIEMENS Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYK:052619-1</td>
<td>Lagdown brace</td>
</tr>
<tr>
<td>NYK:3250775319</td>
<td>Temperature probe with 12’ (3.66 m) cable</td>
</tr>
<tr>
<td>NYK:3250775328</td>
<td>Temperature probe with 15’ (4.57 m) cable</td>
</tr>
</tbody>
</table>

Applicable for all SJ Series Battery Chargers

<table>
<thead>
<tr>
<th>Description</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>10.0&quot; (25.4 cm)</td>
</tr>
<tr>
<td>Overall</td>
<td>10.8&quot; (27.43 cm)</td>
</tr>
<tr>
<td>Overall</td>
<td>9.4&quot; (23.88 cm)</td>
</tr>
</tbody>
</table>