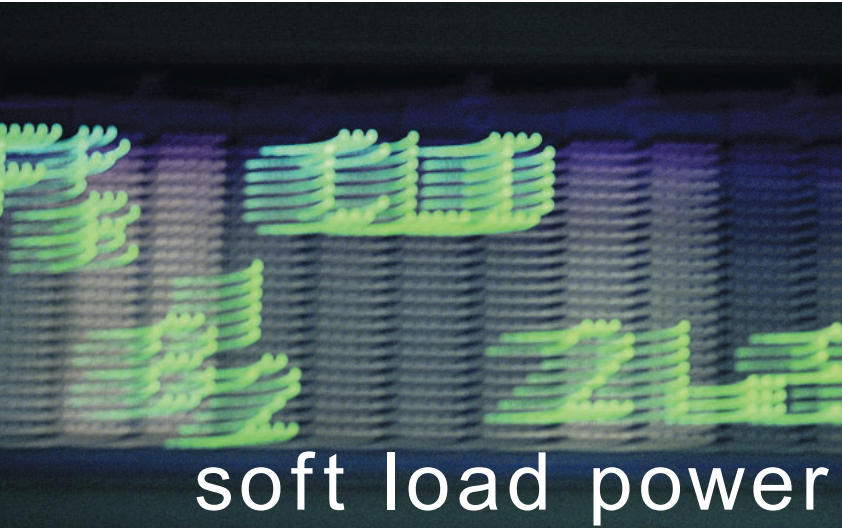




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ASCO[®] 7000 Series
We Keep Your Power On[®]



soft load power
transfer solutions
for continuous,
reliable power



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EMERSON[™]
Network Power



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Protecting hospitals, data centers
Internet 'hotels', airports, retail stores
and other facilities

soft load power



take control



**ENSURE
CONTINUOUS
POWER
FOR YOUR
OPERATIONS**

The ASCO 7000 Series Closed-
Transition Soft Load Power Transfer
Switch gives you the flexibility to:

- Ensure the level of power reliability required by your operations or process
- Switch critical loads between live utility and onsite power sources seamlessly
- Maintain parallel operation of both power sources
- Assure emergency transfer operation upon utility power failure
- Satisfy a broad range of power applications
- Reduce energy costs by shaving your facility's peak energy demand
- Export/import power to/from the electric utility
- Capitalize on the benefits of remote command and control
- Manage energy use more efficiently



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transfer switching

ASCO 7000 SERIES
SOFT LOAD POWER
TRANSFER SWITCH
**ENHANCES
OPERATIONAL
FLEXIBILITY**

Whatever your application, the ASCO 7000 Series Soft Load Power Transfer Switch can meet your load transfer requirements with an unsurpassed range of features and benefits.

The ASCO 7000 Series Soft Load Power Transfer Switch:

- Seamlessly transfers loads between acceptable utility power and onsite generation with virtually no voltage or frequency transients
- Transfers power using proven ASCO Closed-Transition Transfer Switches (CTTS)
- Automatically selects emergency standby transfer operation upon loss of utility power
- Enables you to monitor and control soft load operation using GUIs (graphical user interfaces) with user-friendly, pull-down menus
- Actively synchronizes the onsite generating unit to the utility source by automatically adjusting the generating unit's governor and voltage regulator (analog or pulse width modulated outputs control the governor)
- Actively controls generator kW and power factor during parallel operation
- Contains protective functions on utility and generator sources required for ongoing parallel operation
- Allows you to activate protective functions using the touch screen (each function can be programmed to signal an external breaker and/or alarm signal, or just display the condition on the GUI)
- Maximizes security with multiple levels of password protection
- Records and time stamps events and all changes to protective function settings
- Provides digital inputs with adjustable trip and reset time delays to control or monitor external devices
- Is available in 150 – 4000 amperes
- Listed to UL 1008, the industry safety standard for transfer switch equipment



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synchronizing power ensures continuity

The ASCO 7000 Series Soft Load Power Transfer Switch synchronizes and parallels two independent power sources, without interrupting power flow. The switch can be programmed to either maintain parallel operation of both power sources, or transfer the load to the onsite generating unit, avoiding transients caused by block loading.

Coupled with Web-enabled ASCO SiteWeb™ command and control, the Soft Load Power Transfer Switch enables you to use your onsite generation unit for soft load transferring, base loading, importing or exporting.

Soft Load Power Transferring

In the soft load power transfer mode, the transfer switch synchronizes and parallels the onsite generating unit to the utility source, then immediately instructs the generating unit to assume a preset load value (Gen Minimum Load Setpoint). The Soft Load Controller then continues to control generator excitation to the preset

power factor setting. It begins increasing load on the engine at a preset ramp time rate. At the point the load on the utility source drops to the cutoff value, the switch disconnects the utility feeder.

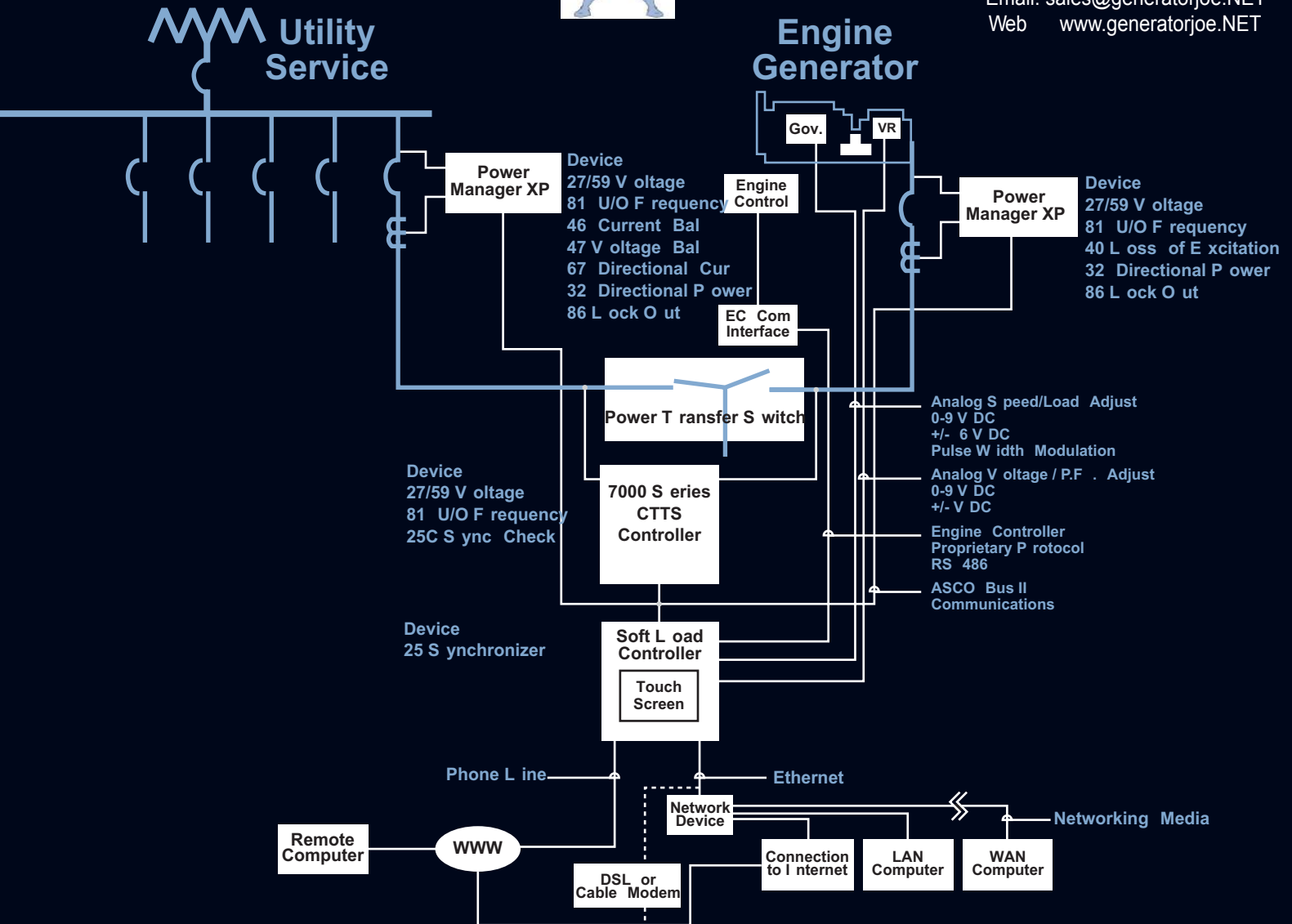
Continuous Base Loading

In the base loading mode, the generating unit operates continuously in parallel with the utility source until operation is discontinued on command. While operating, the soft load controller holds the load and power factor to the generating unit constant. Load variations are carried by the utility source. The switch retransfers the load to the utility source if the generating unit malfunctions.

Power Importing or Exporting

In the importing or exporting modes, the power transfer switch maintains the generating unit in parallel with the utility source. The switch's Soft Load Controller instructs the generating unit to produce the required output and varies the load on the unit to maintain the set import or export level. Load variations are carried by the generating unit up to the maximum generator load setting.

If either the utility or generator power fails in any of the modes, the load automatically transfers to the available source.



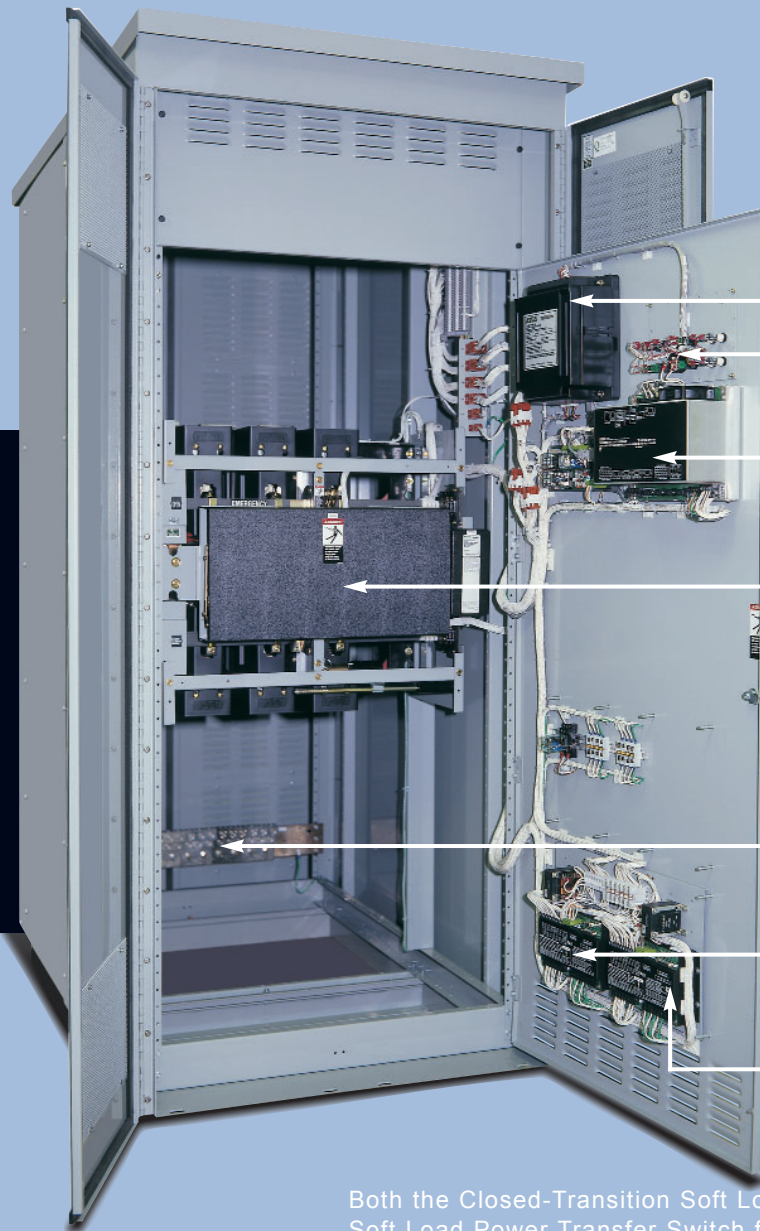
SiteWeb™ enables remote communications

The transfer switch schematic illustrates communications paths that enable users to remotely monitor and control operation of the Closed-Transition Soft Load Power Transfer Switch with ASCO's exclusive SiteWeb™ command and control interconnectivity. End users can monitor system status, load management settings, event logs and alarms from anywhere in the world, and receive e-mail paging for alarm signals. Communications paths include Internet, intranet, and/or Modbus networks via Ethernet, serial and/or DSL, or cable modem interfaces.



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- 7000 Series Controller
- 7000 Series User Control and Indicator Panel 7000 Series
- Soft Load Controller
- Power Transfer Switch
- Ground Bus
- 5200 Series Power Manager XP (utility)
- 5200 Series Power Manager XP (generator)

Both the Closed-Transition Soft Load Power Transfer Switch and the Bypass-Isolation Soft Load Power Transfer Switch feature identical electrical ratings and heavy-duty mechanical interlocks that assure proper operation. The transfer switches feature a family of innovative electronic components that help make the switches the most advanced in the world.

ASCO 7000 Series Closed-Transition Soft Load Power Transfer Switch, rated 3000 amps in a Type 3R outdoor enclosure typically used with a 2 MW gen-set

ASCO power transfer switches—the standard of the industry—synchronize and parallel generation and utility power, allowing critical load transfers without momentary outages or surges.

Overlapping main electrical contacts using a reliable and field-proven solenoid

operating mechanism enable make-before-break transfers that help ensure continuous power. Control logic continuously monitors power source conditions and automatically determines whether the load transfer should be open (conventional, non-overlap mode), or closed transition. Failure to synchronize indication and

extended parallel time protection is built in to prevent abnormal operation.

7000 Series power transfer switches are available in ampacity sizes of 150 – 4000.

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ASCO 7000 Series
Soft Load Power Transfer
Switch with bypass-
isolation, rated 2000 amps
in a Type 3R outdoor
enclosure

The ASCO 7000 Series
Closed-Transition Soft
Load Power Transfer
Switch with bypass-isola-
tion switching allows the
switch to be inspected,
tested and maintained with-
out interrupting power,
whether it's being provided
from the utility or onsite
generator.

A drawout mechanism
power transfer switch helps
ensure ease of service and
maintenance. Simple bypass
and isolation functions
require only two operating
handles. Bypass contacts
carry current only during
the bypass mode.

The bypass switch has
dead front quick-make,
quick-break operation for

transferring loads between
live sources. It is fully rated
for use as a manual three-
position emergency power
transfer switch in the event
of a utility power failure
when the transfer switch is
in the isolated position.
It is available in ampacity
sizes of 150 – 4000.



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advanced power control and monitoring

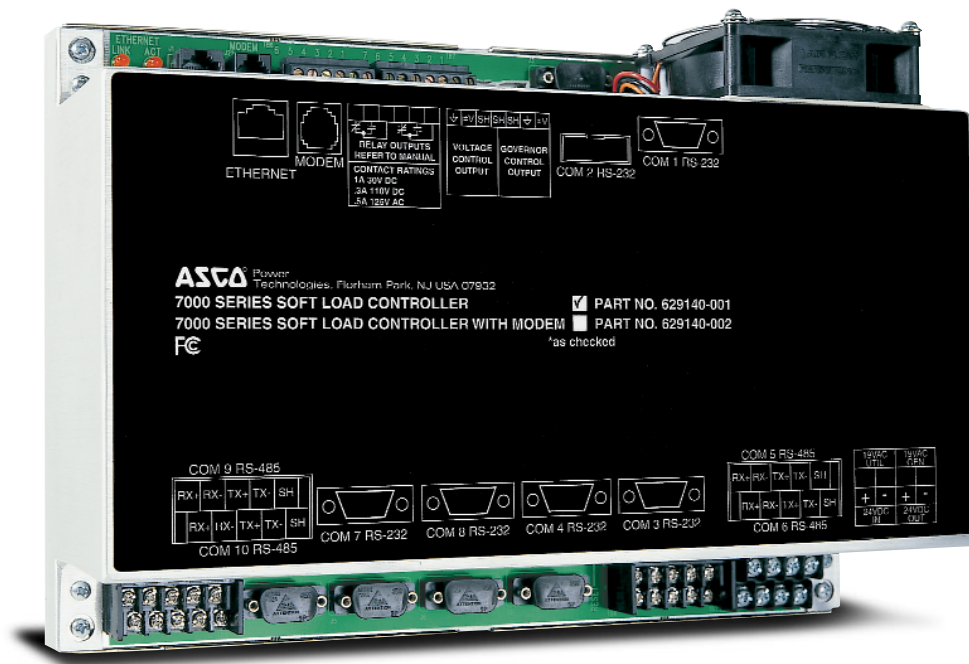
7000 Series Soft Load Controller

The Soft Load Controller is an industrial computer for controlling all soft load and parallel operation. The Controller communicates with the power transfer switch, controller, utility and generator Power Managers, engine-generator set controls, remote ASCO SiteWeb™ clients and

facility supervisory control and data acquisition (SCADA) systems. This component:

- Actively controls engine generator output voltage and speed to synchronize the onsite power source with utility power (Device 25)

- Includes analog and PWM (pulse width modulated) outputs for controlling engine speed/loading and analog output for generator voltage/power factor
- Includes communication ports that provide Internet and intranet access for status checks and remote control
- Records and displays a time-and-date-stamped log of all system events and alarms (including those caused by protective trip functions)
- Includes a GUI (graphical user interface) for system set up, monitoring, and control



5200 Series Power Manager XP

Two Power Managers, one each dedicated to utility and onsite power sources, provide protective relay functions for reliable parallel operation of the sources. The power managers include digital inputs and outputs (Device 86).

In addition to directional power, a directional over-current device provides the most reliable protection against undesirable back-feeding of onsite power to the utility grid.

Utility Source Power Manager

Device 27/59
Under and over voltage

Device 32
Directional power

Device 46
Negative sequence overcurrent

Device 47
Negative sequence voltage

Device 67
Directional overcurrent

Device 81
Under and over frequency

Device 86
Lockout relay

Generator Source Power Manager

Device 27/59
Under and over voltage

Device 32
Directional power

Device 40
Loss of excitation (excess VARs)

Device 81
Under and over frequency

Device 86
Lockout relay





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control interfaces



7000 Series User Control and Indicator Panel

The panel organizes a three-position selector switch for "Auto," "Soft Load Transfer" and "Transfer Preset" operation and LED status indicators.

AUTO

is the normal setting for automatic soft load transfers initiated remotely.

SOFT LOAD TRANSFER manually selects the soft load mode of operation regardless of the settings

in the soft load power transfer controller. The time in the parallel position is based on the generator load/unload ramp time setting.

TRANSFER PRESET manually initiates a soft load power transfer based on the soft load controller settings (base loading, soft load transferring or importing/exporting).

Additional controls enable users to set bypass time delays and reset alarms.

Microprocessor-Based Controllers

The Controller—the most advanced digital controller in the industry—automatically starts the engine and controls load transfer to an onsite power source in the event of a utility power outage. If the onsite power source fails, it automatically transfers the load to the utility power source in an open transition mode.

It includes all voltage, frequency, control and timing functions required for emergency and standby power applications.

Touch pad programming establishes all operational settings and features, without the need for meters or variable power supplies. On-board diagnostics provide control panel and automatic transfer switch status information to analyze system performance. Password protection prevents unauthorized use.

The microprocessor logic board is separated and isolated from the power board to improve electrical noise immunity performance and to help assure compliance with rigorous transient suppression standards. (See page 15 for standards compliance chart.)



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LOAD MANAGEMENT SETTINGS

Automatic Settings
Page 3 of 5

Timer Operation

☒ Enabled

Run Today Starting at ...

:

For a duration of ...

hour min

Present Time:

kW Demand Operation

☒ Enabled

Average kW every... min

Start at... kW

Reset at... kW

Reset Time Delay min

7000 Series Graphical User Interface Panel

The intuitive, touch-screen GUI (graphical user interface) Panel displays at-a-glance operational status and enables users to set, monitor and control all functions quickly and easily. Menu bars simplify and speed navigation.

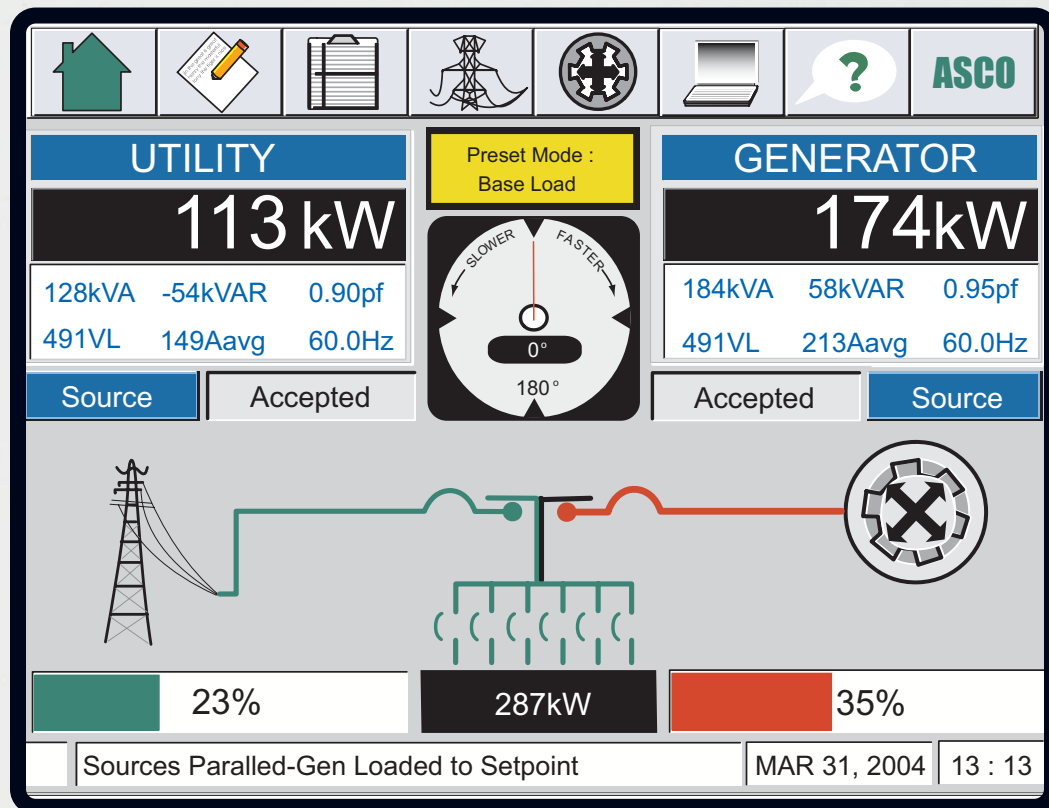
This screen shows that soft load transfer can be initiated automatically at a preset time or level of integrated

kW demand. With a time-of-day setting, the operating mode would continue for a prescribed duration. With a kW demand setting, the operating mode would continue until kW demand dropped below the preset kW level. Selecting both time-of-day and kW integrated settings enables either setting to initiate operation, but both settings must be satisfied before operation can be terminated automatically.

On the following pages, the Home Screen, Source Summary Screen, Load Management Settings Screen and Event Log Screen illustrate the range of data available through the panel. More than 50 screens provide users with total control and access to information on every aspect of system operation.

ASCO®

Soft Load Transfer System Control Center

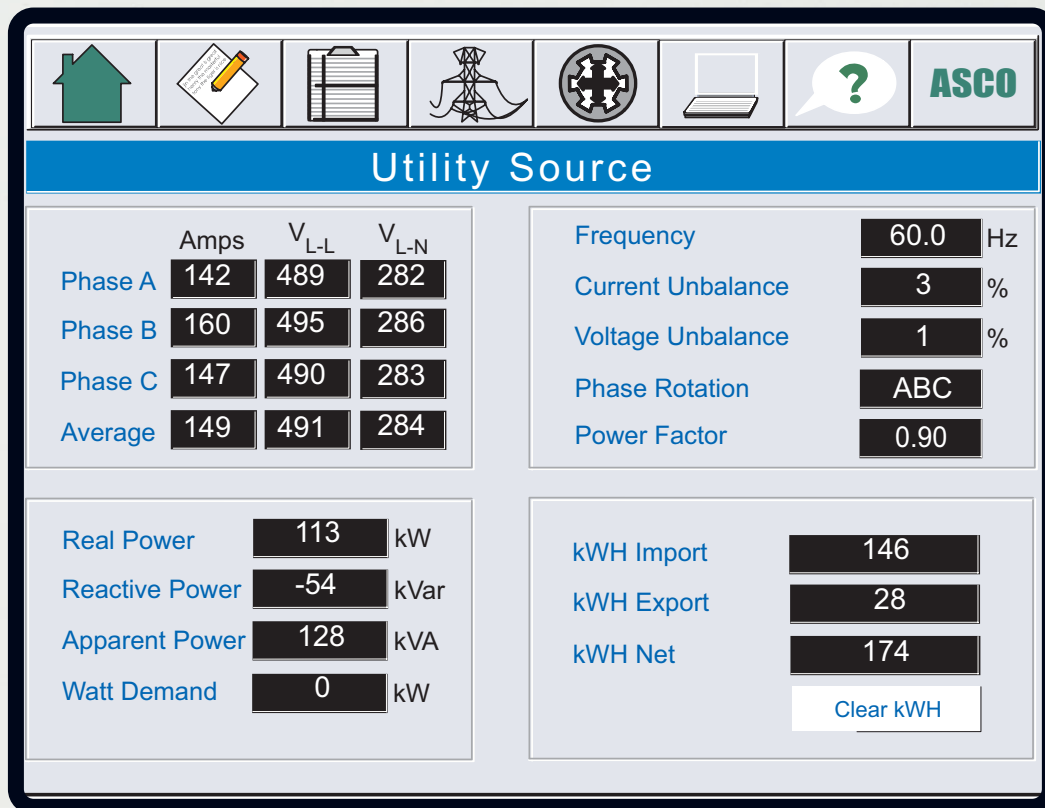


ASCO POWER TECHNOLOGIES

7000 Series Home Screen

This screen includes a synchroscope representation that shows the relative phase angle between the two sources of power. This screen also displays:

- Phase-to-phase voltage, frequency, current, kW, kVA and kVAR for each power source
- Percent of load being supplied from each source
- Load kW and system status
- Power transfer switch position
- Preset mode of operation
- Open or closed position of both power source breakers



7000 Series Source Summary Screen

A screen for each power source shows detailed displays of a variety of electrical parameters:

- Phase voltages and currents, line-neutral voltages, average phase voltage and current
- Voltage and current unbalances
- Phase voltage
- Frequency and power factor
- Utility source import and export kWh
- Power source kW, kVA and kVAR

LOAD MANAGEMENT SETTINGS

Mode Settings
Page 1 of 5

Switching Device

Device CTTS

☐ Disable Preset Mode

Load Control

Utility Cutoff 10 % 50 kW

Ramp Time 20 Seconds

Preset Mode

- ☐ Soft Load Transfer
- ☒ Base Load
- ☐ Import
- ☐ Export

Load Setpoint

Base Load 35 % 174 kW

Import kW

Export kW

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ASCO POWER TECHNOLOGIES

7000 Series Load Management Settings Screen

A series of system configuration screens, such as this one, enable users to set system parameters, protective control functions and eight programmable user inputs for alarming or signaling conditions of external devices. Multiple levels of password protection control access to the screens. Users can use this screen to set:

- System operation—soft load transferring, base loading or importing/exporting modes
- Soft load ramp time
- Utility power cutoff setpoint
- Base load kilowatt setpoint
- Import or export kilowatt setpoint

EVENT LOG

| Date | Time | Description | Cause | User |
|----------|----------|-----------------------------|----------------------|-------|
| 04/01/04 | 00:37:00 | Transfer to Gen | Transfer Preset Mode | _____ |
| 04/01/04 | 00:37:00 | Load On Generator | _____ | _____ |
| 04/01/04 | 00:36:59 | Waiting for Transfer to Gen | _____ | _____ |
| 04/01/04 | 00:36:29 | Ramping Gen Load Up | _____ | _____ |
| 04/01/04 | 00:36:28 | Sources Paralleled | _____ | _____ |
| 04/01/04 | 00:36:20 | Paralleling to Generator | _____ | _____ |
| 04/01/04 | 00:36:20 | Gen Source Available | _____ | _____ |
| 04/01/04 | 00:36:15 | Engine Start | Transfer Preset Mode | _____ |
| 03/31/04 | 12:19:23 | System in Standby | _____ | _____ |
| 01/31/03 | 17:05:30 | Gen Under Frequency | Trip | _____ |

768 Events

Page 5 of 77

7000 Series Event Log Screen

This screen displays any of the last 1000 events that are automatically time-and-date stamped and saved in an historical database. The event log saves all user acknowledgements, including the ID of the acknowledging user. Event categories cover:

- Transfer switch status, including transfers to the onsite power or utility sources
- Utility and onsite power source status, including tripping of protective functions, exceeding system setpoints, acceptance of permissive setpoints and status of user-defined discrete inputs, and feeder circuit breaker status
- Engine generator status, including engine start/stop and user-defined engine alarms and shutdowns



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ordering information

ASCO® 7000 Series

Closed-Transition Soft
Load Transfer Switch

The sample catalog
number below is
7ASLSA3400N5C

To order an ASCO 7000 Series Closed-Transition
Soft Load Transfer Switch, use the following sample
catalog number for the switch you want:

| 7 | A | SLS | + | A | + | 3 | + | 400 | + | N | + | 5 | + | C |
|---|-----------|-----|------------|---|------------------|----------------|---|-----------------|---|-----------------|---|-------------|---|--------------------|
| | | | | | | | | | | | | | | |
| | | | Product | | Neutral Code* | Phase Poles | | Amperes Code | | Voltage Code | | Grp | | Cabinet |
| A | Automatic | SLS | Soft Load | — | No Neutral | 3 | | 150 | | C 208 | | | | |
| | | | Closed- | | | | | 260 | | D 220 | | 5X- | | C Type 1 enclosure |
| | | | Transition | A | Solid | | | 400 | | E 230 | | optional | | M Type 3R secure |
| | | SLB | Soft Load | | Neutral | | | 600 | | F 240 | | accessories | | enclosure |
| | | | W/Bypass- | B | Switched | | | 800 | | L 440 | | | | |
| | | | Isolation | | Neutral | | | 1000 | | M 460 | | | | |
| | | | Switch | C | Overlapping | | | 1200 | | N 480 | | | | |
| | | | | | Neutral | | | 1600 | | P 550 | | | | |
| | | | | | | | | 2000 | | Q 575 | | | | |
| | | | | | | | | 3000 | | R 600 | | | | |
| | | | | | | | | 4000 | | | | | | |

*Note: Switches rated 600 – 3000 amps available with either conventional switched neutral (4 poles) or overlapping neutral (optional).
For 4-pole applications on switches rated 150, 260, 400 and 4000 amps, specify overlapping switched neutral (optional).



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ASCO® 7000 Series

Microprocessor-Based
Controllers

Transient Suppression Standards Compliance

| | |
|---|----------------------|
| Emission Standard – Group 1, Class A | FCC Part 15, Class A |
| Generic Immunity Standard, from which: | EN 50082-2:1995 |
| Electrostatic Discharge (ESD) Immunity | EN 61000-4-2:1995 |
| Radiated Electromagnetic Field Immunity | FCC Part 15, Class A |
| Electrical Fast Transient (EFT) Immunity | EN 61000-4-4:1995 |
| Surge Transient Immunity | EN 61000-4-5:1995 |
| Conducted Radio-Frequency Field Immunity | EN 61000-4-6:1996 |
| Voltage Dips, Interruptions and Variations Immunity | EN 61000-4-11:1994 |

ASCO® 7000 Series

Closed-Transition
Soft Load Transfer
Switch Terminals

Sizes of UL-Listed
Solderless Screw-Type
Terminals for External
Power Connections

| Switch Rating Amps | Max. # of Conductors per Terminal | Range of AL-CU Conductor Sizes |
|-----------------------|--------------------------------------|-----------------------------------|
| 150, 260, 400 | One | #4 AWG to 600 MCM |
| 600 | Two | #1/0 AWG to 600 MCM |
| 800 – 1200 | Four | #1/0 AWG to 600 MCM |
| 1600 – 2000 | Six | #1/0 AWG to 600 MCM |
| 3000 – 4000 | Twelve | #1/0 AWG to 600 MCM |

ASCO® 7000 Series

Bypass-Isolation
Soft Load Transfer
Switch Terminals

Sizes of UL-Listed
Solderless Screw-Type
Terminals for External
Power Connections

| Switch Rating Amps | Max. # of Conductors per Terminal | Range of AL-CU Conductor Sizes |
|-----------------------|--------------------------------------|-----------------------------------|
| 150, 260, 400 | One | #4 to 600 AWG |
| 600 – 800 | Three | #2 AWG to 600 MCM |
| 1000 – 1200 | Four | #1/0 AWG to 600 MCM |
| 1600 – 2000 | Six | #1/0 AWG to 600 MCM |
| 3000 | Ten | #1/0 AWG to 600 MCM |
| 4000 | Twelve | #1/0 AWG to 600 MCM |

ASCO® 7000 Series**Closed-Transition
Soft Load Transfer
Switch Dimensions**

| Switch Rating amps | Poles | Width inches (mm) | Height inches (mm) | Depth inches (mm) |
|---|-----------------------|----------------------|-----------------------|----------------------|
| Enclosed UL Type 1 (Consult ASCO for Type 3R dimensions.) | | | | |
| 150, 260, 400 | 3 or 3 with neutral C | 30 (762) | 63 (1600) | 17- 1/2 (445) |
| 600, 800, 1000 | 3 or 3 with neutral C | 34 (864) | 72 (1829) | 20 (508) |
| 1200 | 3 or 3 with neutral B | 38 (965) | 87 (2210) | 23 (584) |
| 1600 – 2000 | 3 or 3 with neutral B | 38 (965) | 91 (2311) | 48 (1219) |
| 3000 | 3 or 3 with neutral B | 38 (965) | 91 (2311) | 60 (1524) |
| 4000 | 3 or 3 with neutral C | 46 (1168) | 91 (2311) | 72 (1829) |

ASCO® 7000 Series**Bypass-Isolation Soft Load
Transfer Switch
Dimensions**

| Switch Rating amps | Poles | Width inches (mm) | Height inches (mm) | Depth inches (mm) |
|---|-----------------------|----------------------|-----------------------|----------------------|
| Enclosed UL Type 1 (Consult ASCO for Type 3R dimensions.) | | | | |
| 150, 260, 400 ¹ | 3 or 3 with neutral C | 28-1/2 (724) | 74 (1880) | 19 (483) |
| 600, 800, 1000, 1200 ^{2,3} | 3 or 3 with neutral B | 38 (965) | 91 (2311) | 48 (1219) |
| 1600 – 2000 ³ | 3 or 3 with neutral B | 38 (965) | 91 (2311) | 60 (1524) |
| 3000 ³ | 3 or 3 with neutral C | 38 (965) | 91 (2311) | 72 (1829) |
| 4000 ⁴ | 3 or 3 with neutral C | 96-1/2 (2451) | 91 (2311) | 72 (1829) |

Notes:

1. Handles extend 3-1/2 inches (89mm).
2. Handles extend 6-1/4 inches (159mm).
3. Recommended clearance to enclosure: 3 feet (914mm) from rear, 4 feet (1219mm) from front (25 inches required for transfer switch drawout).
4. For 4000 amp size, ATS and bypass sections can be reversed; contact ASCO. Recommended clearance to enclosure: 3 feet (914mm) from rear, 5 feet (1524mm) from front (3 feet required for transfer switch rollout).



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ASCO® 7000 Series

Closed-Transition Soft
Load Transfer Switch
Shipping Weights

*(Export shipments may
require a wooden box.
Contact ASCO for weights
and dimensions.
Consult ASCO for Type 3R
shipping weights.)

| Switch Rating amps | Poles | Type 1* Enclosure |
|-----------------------|----------|----------------------|
| 150, 260, 400 | 3 | 205 (93) |
| 150, 260, 400 | 3 with C | 213 (96) |
| 600, 800, 1000 | 3 | 510 (231) |
| 600, 800, 1000 | 3 with B | 540 (244) |
| 1200 | 3 | 800 (362) |
| 1200 | 3 with B | 830 (375) |
| 1600 – 2000 | 3 | 1410 (637) |
| 1600 – 2000 | 3 with B | 1460 (660) |
| 3000 | 3 | 2210 (998) |
| 3000 | 3 with B | 2280 (1031) |
| 4000 | 3 | 2640 (1193) |
| 4000 | 3 with C | 2740 (1238) |

ASCO® 7000 Series

Bypass-Isolation Soft Load
Transfer Switch Shipping
Weights

*(Export shipments may
require a wooden box.
Contact ASCO for weights
and dimensions.
Consult ASCO for Type 3R
shipping weights.)

| Switch Rating amps | Poles | Type 1* Enclosure |
|-----------------------|----------|----------------------|
| 150, 260, 400 | 3 | 350 (158) |
| 150, 260, 400 | 3 with C | 360 (163) |
| 600, 800, 1000, 1200 | 3 | 1680 (762) |
| 600, 800, 1000, 1200 | 3 with B | 1750 (794) |
| 1600 – 2000 | 3 | 2495 (1132) |
| 1600 – 2000 | 3 with B | 2675 (1213) |
| 3000 | 3 | 2830 (1276) |
| 3000 | 3 with C | 3460 (1560) |
| 3000 | 3 | 6300 (2858) |
| 4000 | 3 with C | 6900 (3130) |

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Technologies®

We Keep Your Power On®



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