

AST3000 Series Automatic Transfer Switch

Technologies Inc.

DynaGen



proTECHtor

TRANSFER SWITCH®

A Complete Automatic Transfer Switch Solution At a Great Price

- Auto Start Engine Controller Included
- 7 Day Engine Exerciser Included
- NEMA 4 Enclosure
- Longest Warranty in the Business
- Lowest cost
- Easy to Install

Features

The AST3225 AutoStart Transfer Switch System provides an automatic transfer of an electrical load to a stand-by power supply in the event of a drop, or loss of voltage, on any or all phases of the normal power supply. Upon the restoration of normal power, the electrical load is automatically re-transferred to the normal power supply. The base unit comes complete with an ES53 Controller, which starts the engine automatically and provides the necessary timing functions. All time delays are built into the ES53, and are fixed to simplify installation, start-up, and field servicing. Included are the following timers:

1: TDES: Time Delay Engine Start: Adjustable from 0-32 Seconds. This delay is necessary to prevent unnecessary engine starts. This delay also doubles as a preheat timer utilizing terminal 12 for diesel glow-plugs, if necessary.

2: TDNE: Time Delay Normal to Emergency: 4 seconds. This allows the engine to stabilize before load transfer.

3: TDEN: Time Delay Emergency to Normal: 3 minutes. This allows a delay after the utility returns, to ensure it has indeed returned and stabilized.

4: TDEC: Time Delay Engine Cool: 5 minutes. This allows the engine to continue running for a set time after transfer of the load back to the utility, to circulate coolant for a safe cool-down.

OPTIONS:

Adjustable Low Voltage Sensing Relay: In some areas, the utility power supply may be prone to brown-out or low voltage conditions.

Benefits

With an AST3225 AutoStart Transfer Switch system, and any generator having an electric starter, you can have a dependable stand-by power system, that will automatically supply you with back-up power when your primary power supply is lost. You can install an ES53 Controller on your engine now, for remote start capability, and at a later date purchase the remainder of the system, at no increase in total cost. Our removable connectors permit "plug and run" operation. The molded case switches have zero standby power draw, unlike contactor based systems. The 225 Amp rating enables handling of full load to most residential and small commercial electrical services; this enables standby power to be sent to any circuit in the facility. (With a "pony panel" installation, only the dedicated circuits can be powered when the utility is absent.)

Contact Us

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AST3000 Series Automatic Transfer Switch

Electrical Specifications

	NORMAL	EMERGENCY
VOLTAGE	240	240
AMPERAGE	225	225
FREQUENCY(HZ)	50/60	50/60
PHASE	1	1
POLES	2	2

WITHSTAND /INTERRUPTING RATING: 10,000 Amps
FOR LOADING AT 100% OF NAMEPLATE CURRENT

* Optional 220 VAC System

Physical Specifications

ENCLOSURE DIMENSIONS:	24"Wx30"Lx9"D
RATING:	NEMA 4
WEIGHT:	85 LBS.

Warranty

Total product support includes a 3 year
Manufacturer's warranty covering
defects in materials and workmanship.

The Control Module:

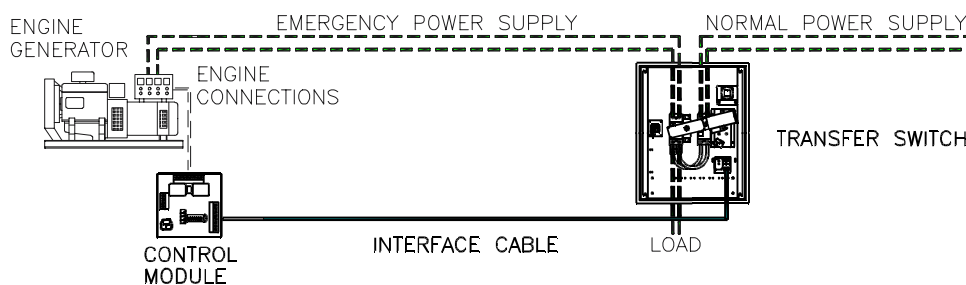
The ES53 Control Module is a combined "engine controller + time delay module." It is typically mounted at the engine, to minimize runs of high current wiring. With 22 AWG wire, the distance between engine and transfer switch can be up to 400 feet. Standard cable length supplied with the package is 50', and other lengths are available in 25' increments. Cable has the connector terminals pre-mounted on one end, but the engine side must be field installed.

FEATURES

- **Simplified Hook-up:** The ES53 uses output of generator; A magnetic pick-up is not necessary.
- **Zero Speed Crank** prevents engagement of starter when the engine is turning.
- **Loss of Speed Signal** detection prevents damage to the starter motor.
- **Removable terminal strips** decreasing install time.
- **Replaceable 10 amp fuel and crank relays**, usually eliminating the need for the installation of pilot relays.
- **Preinstalled Removable Fuse** - No external fuse installation required.

SPECIFICATIONS:

- **Operating voltage:** 3.5 to 30VDC
- **Operating Temperature:** -40 to +85C
- **Dimensions:** 3.3" x 3.3" x 1.84" overall
- **Weight:** 0.65 lbs.
- **Protection:** Epoxy Potting
- **Failure inputs** for low oil, high temp and aux
- **Crank Disconnect:** 12-140Hz
- **Crank Tries:** 1-6
- **Crank Rest Time** 3-35 seconds
- **Differential Speed Signal:** Input Voltage Range of 0.1 to 300Vrms
- **Reverse Polarity Protection**
- **Auto-reset Fuse** on annunciator outputs



AST 3225 TRANSFER SWITCH-ILLUSTRATIVE SYSTEM DIAGRAM