



SF**333**

NSFER SWITCH CONTROL MODULE

FEATURES



The DSE333 is an Automatic Transfer Switch Controller for genset and other applications. The module will monitor the voltage and frequency of the incoming AC mains (utility) supply and in the event of a failure, will issue a start command to the generator control system.

Once the generator is available and producing an output within limits, the DSE333 will control the transfer device and switch the load from the mains (utility) to the generating set.

Once the mains (utility) supply returns to within limits, the module will command a return to the mains (utility) supply and shut down the generator after a suitable cooling

Various timing sequences are available to prevent nuisance starting on minor supply breaks.

The DSE333 supports many topologies and features include mains (utility) rated volt-free relays, a clear back-lit LCD 4-line text display, showing system status and warnings and red and green LEDs indicating operational status.

The modules can be easily configured using the DSE Configuration Suite PC Software. Selected front panel editing is also available.

Configurable volt-free digital inputs and outputs make the DSE333 fully flexible to suit a wide variety of applications.

When there is no DC supply, a compatible self-seeking power supply is available (DSE160).

ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2 EMC Generic Immunity Standard for the Industrial Environment BS FN 61000-6-4 EMC Generic Emission Standard for the Industrial Environment

ELECTRICAL SAFETY

BS EN 60950 Safety of Information Technology Equipment, including Electrical Business Equipment

TEMPERATURE

BS EN 60068-2-1 Ab/Ae Cold Test -30 °C BS EN 60068-2-2 Bb/Be Dry Heat +70 °C

VIBRATION

BS EN 60068-2-6 Ten sweeps in each of three maior axes 5 Hz to 8 Hz @ +/-7.5 mm, 8 Hz to 500 Hz @ 2 an

HUMIDITY

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 °C @ 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 °C @ 93% RH 48 Hours

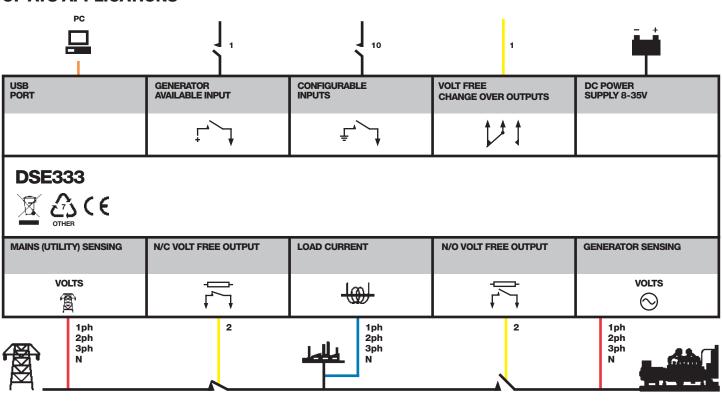
SHOCK BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529

IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ATS APPLICATIONS





















SF**333**

RANSFER SWITCH CONTROL MODULE

FEATURES





KEY FEATURES

- Volt-free relays
- Supports many topologies
- Automatic switch-over between supplies
- Check sync feature
- Real-time clock
- 10 configurable inputs
- 5 configurable outputs
- Event log (10)
- Configurable timers
- Automatic shutdown or warning when fault conditions are detected

- PC configuration
- Front panel configuration
- LED indicators
- Back-lit 4-line text LCD display
- External mains (utility) or genset failure inputs
- Auto start inhibit
- Load inhibit
- Manual restore to mains (utility)
- Optional current monitoring

KEY BENEFITS

- Fully automatic monitoring and switch-over control minimises the effects of power disruptions
- Real-time clock provides accurate event information for easy maintenance diagnostics
- User-friendly set-up and button layout
- Will work with external synchroniser for seamless return to mains (utility)

SPECIFICATION

CONTINUOUS VOLTAGE RATING

8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT 292 mA at 12 V. 167 mA at 24 V

MAXIMUM STANDBY CURRENT 101 mA at 12 V, 66 mA at 24 V

MAINS (UTILITY) VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUT A (MAINS/UTILITY)

Normally closed volt-free output 8 A AC at 250 V AC

OUTPUT B (GENERATOR)

Normally open volt-free output 8 A AC at 250 V AC

OUTPUT C (START AND RUN)

Normally closed volt-free output 8 A DC at 35 V DC (UL Rating 30 V)

OUTPUT D

Changeover volt-free output 8 A AC at 250 V AC

OUTPUT E

Normally open volt-free output 8 A AC at 250 V AC

VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OVERALL

215 mm x 158 mm x 42 mm 8.5" x 6.2" x 1.6"

PANEL CUT-OUT

182 mm x 137 mm 7.2" x 5.4"

MAXIMUM PANEL THICKNESS

RELATED MATERIALS

TITLE

DSE333 Installation Instructions DSE333 Operator Manual DSE333 Configuration Suite PC Manual DSE160 Self-Seeking Power Supply Data Sheet DSE160 Operator Manual

PART NO'S

053-066 057-118 057-106 055-076 057-108

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