

Model: IK-022 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

## DSE 3110 MANUAL CONTROL PANEL

MANUAL CONTROL, PROTECTION AND DISTRIBUTION panel, assembled on the generator set in metal cabinet with a DSE 3110 engine protection unit.



Image for guidance purposes.

It has the following:

### 1. STARTER SWITCH

### 2. EMERGENCY STOP PUSHBUTTON

### 3. MEASURING INSTRUMENTS:

Analogue(s) ammeter(s)

Fuel level indicator.

Analogue voltmeter

Digital Hz display and hour meter (DSE 3110)

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**4. SET CONTROL AND ENGINE PROTECTION: DSE 3110, allows:**

START AND STOP the set MANUALLY.

Possibility of doing it AUTOMATICALLY via START ON SIGNAL

Digital readings of the operating hours and the Frequency

Controls the main characteristics of the engine, causing an alarm or stopping the machine:

- Low and High Voltage (STOP)
- Low and High Frequency and Speed (STOP)
- Low Oil Pressure and High Coolant Temperature (STOP)
- Failure of the Alternator Battery-Charger (ALARM)
- Low fuel level (ALARM)

**5. PROTECTIONS**

MAGNETO. PROTECTION (A)	EARTH LEAK PROTECTION	DISTRIBUTION
32A, 4P	Modular 32A, 30mA	CEE5P32A+Schuko

## OPTIONS

### OPTIONAL 1:

#### AUTOMATIC PANEL FOR MANUAL GENERATOR: ATS DSE 334

This panel provides the manual control generator with a reserve operation from the Mains, as the ATS sends the command to start and stop the generator, when it detects a supply failure and when the Mains is restored.



Image for guidance purposes.

It has the following:

Change over switch made up of two contactors with mechanical and electrical latching.

Battery charger

Fuses

Mains and group input and charge output connection terminal block.

DSE 334 Automatic Transfer Control Module, providing the following functions and features:

- Output to voltage free relay.
- Automatic supply failover.
- Real time clock
- 10 inputs and 5 outputs can be customised
- Events log
- Customisable timers
- Setup can be completed through PC and/or through the panel itself.
- LED indicators.
- Four-line screen
- Input for generator set failure.
- Electric current monitoring (optional)
- Voltage levels can be adjusted to mains failure
- Generator availability indicator.
- Start signal to the engine

## OPTIONS

### OPTION 2:

### FAILOVER TO DSE 6110 MKII MANUAL DIGITAL CONTROL MODULE

#### LCD SCREEN:

It has a digital LCD screen, which provides easy reading of the information regarding the ENGINE, ALTERNATOR and CHARGING.

#### ENGINE:

Coolant temperature

Oil pressure

Turning speed (rpm)

Fuel level

Battery voltage

Battery alternator voltage

Operating hours

Number of start-ups

#### ALTERNATOR AND CHARGE:

Voltages between phases and between phases and neutral.

Intensities

Frequency

#### CONTROL OF THE SET:

START AND STOP the set MANUALLY.

Possibility of doing it AUTOMATICALLY via START ON SIGNAL.

#### PROTECTION OF THE ENGINE AND ALTERNATOR, WITH THE ALARMS ACTIVATED:

#### ENGINE:

Low oil pressure

High coolant temperature

Low and High battery Voltage.

Failure of the alternator to charge batteries

Low fuel level..

#### ALTERNATOR:

Low and High Voltage

Low and High Frequency

Overload due to Intensity (A)

#### OTHER CHARACTERISTICS:

The real-time clock records the last 50 events.s.

Configurable inputs and outputs.

Configurable alarms and timers.

USB connectivity

Fully configurable via software and PC.

Communication via USB cable for remote control

Programmable clock with multiple maintenance events which can be configured for optimal motor functioning. Weekly and/or monthly programming for up to 8 startups and shutdowns per week.

ALTERNATIVE CONFIGURATIONS, which open up the working possibilities.