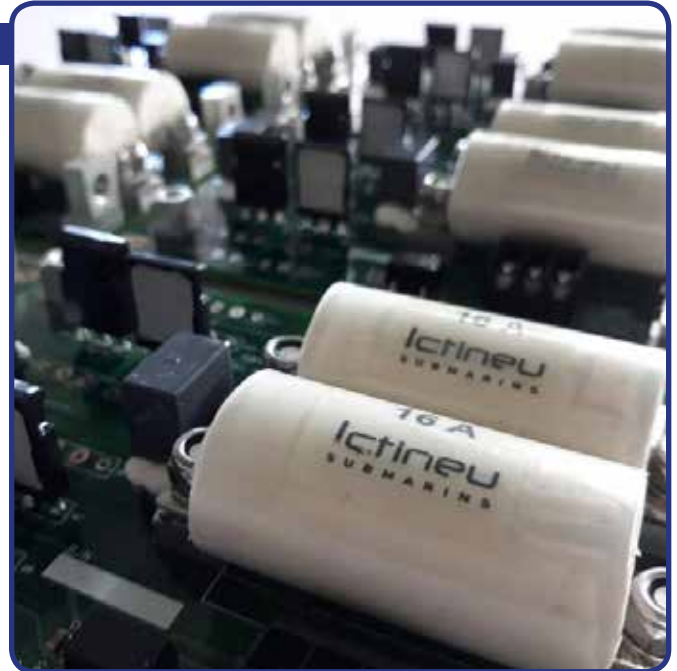


Pressure tolerant - Double Pole AC Solid-State Relay with integrated fuses

Features

- High-drive capability (<100 A)
- Ultra-low on-resistance (RDS(ON) = 0,0025 Ω per relay)
- Low heat generation, no heatsink needed (32 W @ 80 A; 12,5 W @ 50 A)
- Inductive load protected
- All pins protected against ESD
- De-bounced control input (to use with toggle switches)
- Turn-on delay (to switch the load when the system is stable)
- FAULT indication (no voltage present at the output)
- Operational depth 11 500 m
- Fuses range from 12 A to 100 A tested
- Built with quality, minimum industry standard components
- Standard voltage 150 V DC



Functional Description

This relay has been conceived to offer a pressure tolerant solution to conventional mechanical switches which were not suitable for operation in oil and/or under pressure due to sparking and/or presence of encapsulated parts.

This relay is particularly recommended for switching consumers to the ICTINEU battery units through an oil filled junction box. Thanks to an exacting electronics design this product does not need a heatsink whether it is used in oil or in air.

The SSR (Solid-State Relay) is normally open and the relay closes applying 12 V to the control input. The control

input is electrically de-bounced so a toggle switch can be used. An internal turn-on delay (1 sec.) has been implemented to switch the power when the system is stable.

A fault signal is triggered when 12 V are applied to the control input and there is no high voltage present at the output. The fault signal is ON during the first second until the relay is closed (due to the turn-on delay). This feature can be used to check if the fault signal works properly. Also a fault LED can be installed.

Connections	Description
IN+	Positive pole power input
IN-	Negative pole power input
OUT+	Positive pole power output
OUT-	Negative pole power output
+12 V	Control signal input (0 V open; 12 V closed)
FAULT	Fault signal output (Low-side open drain)
GND	Signal ground

Geometrical Data	
Length	156 mm (6,14 inch)
Width	110 mm (4,33 inch)
Height	33 mm (1,30 inch)

This product is property of ICTINEU Submarins SL, ESB64470503