

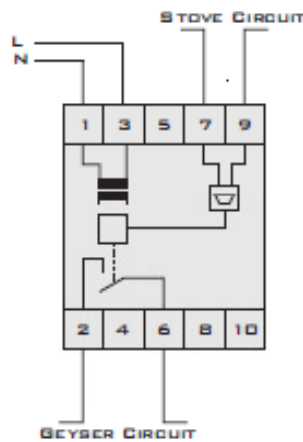
**DRLS**

**LOAD SHED RELAY WITH REALTIME CLOCK**

**DESCRIPTION**

LOAD SHED RELAY DESIGNED WITH THE LATEST MICROCONTROLLER FEATURING HIGH RESOLUTION ANALOGUE CONVERTER TO PRODUCE PRECISE SWITCHING LEVELS. THE UNIT IS DESIGNED TO MONITOR CURRENT CONSUMPTION AND DISCONNECT NON-CRITICAL LOADS FROM THE SYSTEM IF THE LOAD EXCEEDS THE LIMIT AND DURING PEAK TIMES.

**WIRING DIAGRAM**



**FEATURES**

- HIGH RESOLUTION ANALOGUE MICROPROCESSOR
- 15 MIN RESPONSE DELAY
- FRONT PANEL MULTIFUNCTION BUTTON
- 15A INPUT WITH 20A PEAK CURRENT
- HIGH CURRENT 16A SPST OUTPUT RELAY
- REAL TIME CLOCK
- PEAK TIME SWITCH OFF
- MODULAR 53.5MM DIN RAIL MOUNTABLE



**INPUT SPECIFICATIONS**

INPUT MEASURING	PIN 7&9
CURRENT SETTING	5A
INPUT RESISTANCE	0.10HM
MAX OVERLOAD	20A (30sec)
HYSTERESIS	5%
REPEAT ACCURACY	<1%
RESPONSE DELAY	15 MIN

**OUTPUT SPECIFICATIONS**

RELAY OUTPUT RATED ISOLATION VOLTAGE	SPDT 6000VAC (CONTACT/ELECTRIC) 1000VAC (CONTACT/CONTACT)
NOMINAL RATE IN AC1	2500VA
RATED CURRENT	16WA
RATED VOLTAGE	250V
MECHANICAL LIFE	10*10 <sup>4</sup> CYCLES
ELECTRICAL LIFE	110*10 <sup>3</sup> CYCLES
OPERATING FREQUENCY	<1800 CYCLES/HOUR

**SUPPLY SPECIFICATION**

POWER SUPPLY AC TYPE	110,230,400 ±10% 50-60HZ ±5%
GALVANIC ISOLATION	4kV
CONSUMPTION	±3VA

**GENERAL SPECIFICATION**

POWER ON DELAY	15MIN
POWER OFF DELAY	< 250MS
PEAK TIMES	7AM - 10AM 6PM - 8PM
INDICATION POWER SUPPLY ON	LED GREEN FLASHING - GEYSER OFF
OUTPUT ON	LED RED
STATUS	LED YELLOW FLASHING GEYSER ON
ENVIRONMENT	IP20
OPERATING TEMPERATURE	-10 TO +70°C
STORAGE TEMPERATURE	-30 TO + 85°C



## MODE OF OPERATION

THE RELAY WILL REMAIN OFF FOR 15 MIN ON APPLYING POWER TO THE UNIT. THE INPUT IS MONITORED AND WILL RELEASE THE RELAY IF THE CURRENT EXCEEDS 5A. . THE RELAY WILL ONLY OPERATE AGAIN IF THE CURRENT REMAINS BELOW THE LIMIT FOR 15 MIN.

THE GEYSER WILL SWITCH OFF IN THE PRE-PROGRAMMED PEAK TIME. THIS CAN BE OVERRIDDEN BY PRESSING AND RELEASING THE FRONT PANEL BUTTON. THE STATUS LED WILL FLASH AND THE GEYSER WILL REMAIN ON FOR 1 HOUR.

THE GEYSER CAN BE SWITCHED OFF BY PRESSING THE FRONT PANEL BUTTON FOR MORE THEN 10s. THE POWER LIGHT WILL START FLASHING AND THE RELAY WILL RELEASE. THE UNIT CAN BE SWITCHED TO NORMAL OPERATION BY PRESSING THE FRONT PANEL BUTTON AGAIN FOR 10s.