**Technical Data Sheet** 





- Fully UC3 Rated at 100A / 276V
- 4KV Dielectric Strength
- RoHS Compliant
- Low self heating
- Long electrical Lifetime reliability
- Fully Customisable



**Technical Data Sheet** 



## **Product Overview**

- IEC 62052-31/IEC 62055-31 UC3:
  - Meets FULL UC3 Short circuit and Electrical Endurance test requirements at 100A/276V
- Design security:
  - A unique Patent Protected Design
- Minimized inventory and cost
  - Manufactured in India

## Key Features

- Reduced Heat Rise:
  - Superior low-heating performance
- Long lifetime reliability:
  - Industry leading 'contact settling' time
- Allows Optimisation of the Meter Power Supply:
  - Fast Operation



# RELDEV Cambridge UK

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Performance Data				
IEC 62052-31 Capability	UC3 at 100A/276V			
Rated UC3 Load	100A			
Nominal Voltage	230V			
Frequency	50Hz			
Contact Materials	AgSn02			
Contact Form	Normally Closed			
Electrical Endurance	5000 Cycles (Resistive PF1), then 5000 Cycles (Inductive PF0.5) 100 Amps, 276 Volts			
Pulse width Requirement	Min. 50ms			

Insulation Information				
AC Dielectric Strength				
Coil to Contact on new switch	4KV			
New switch – open contacts	2KV			
After UC3 electrical Endurance	1KV			
DC Impulse Dielectric				
Coil to Contact on new switch	8KV			
New switch – open contacts	4KV			
After UC3 electrical Endurance	2KV			
Distance Between terminals	8.75mm			



RELDE \
Cambridge UK

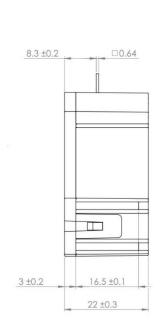
#### Technical Data Sheet

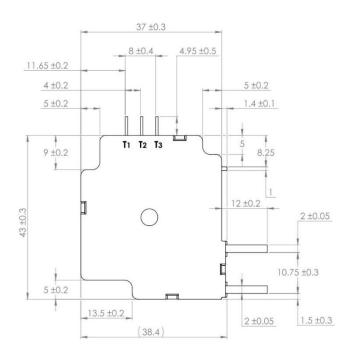
Technical Information				
Switch Circuit Resistance	<250 micro Ohms			
Product Weight	52g			
Product Dimensions	37mm x 43mm x 22mm			
Mechanical Endurance	100K cycles (360 cycles per min.)			
Shock test	50g			
Vibration Test	10-150Hz, 20m/s <sup>2</sup> acceleration			
Accelerated Life Test	85 <sup>o</sup> C, 85%RH, 600 Hours			
Flammability Rating	V0			
Customisation	Fully customisable for efficient integration into Smart Meters			



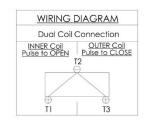
### **Technical Data Sheet**







<u>WIRING [</u>	DIAGRAM	
Single Coi	l Connection	
Pulse to OPEN	Pulse to CLOSE	
T1		



Nominal Voltage (V)	coil type		Resistance (+/-10%) (Ohm )
EAST CONTRACTOR OF THE CONTRAC		ngle	11.00
6 Twin	T	Inner	4.50
	Outer	4.50	
	Single		36.00
12 Twin	<b>T</b>	Inner	18.00
	IWIN	Outer	18.00
	Single		130.00
24 Twin	Turin	Inner	80.00
	IWIII	Outer	80.00

Minimum Pulse Duration for all REL coils: 0.050 Seconds. The above data is a representative example. Specific parameters will be confirmed for custom applications

<sup>3.</sup>Relays should be used within 6 months of receipt. Keep contacts in the closed state



<sup>1.</sup> There is a possibility that during the shipping /and or fitment process the state of relay could change. We recommend all relays are switched before use

<sup>2.</sup>Moving or bending bus bars of relays supplied can damage the internal structure of the relay