meters uk Ltd

Utility Meter Manufacturers

Three Phase Credit Meter - Wholecurrent (Wired Directly)

Technical Data

- Ofgem Approved Design (For use in billing applications)
- Manufactured to ISOEN 1036
- Fully Compliant To EMC Regs BSEN 50081-1 BSEN 50082-1
- *'Free'* Calibration Certificate With Each Meter

Order Codes – JG3/101 Standard Wholecurrent Meter (WC)
JG3/101/P Wholecurrent Meter with Pulsed Outputs

Electrical Specification

40 – 100 amp 230/415 Volts 50 Hz (WC)
Meter Constant = 5.0 wh (WC)
Accuracy Class 2
Manufactured to ISOEN 61036
Fully complaint to EMS Regulations BS EN 50081 –1 BS EN 500082 –1

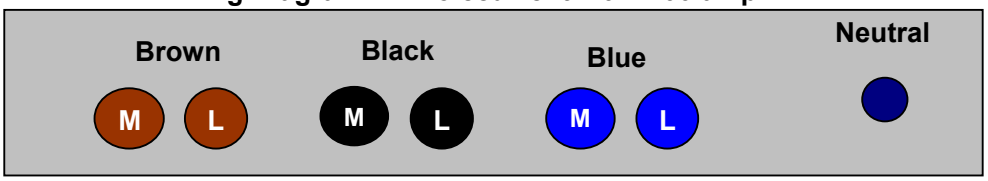
Operational Data

Non Registration with voltage alone logical creep inhibits circuit.
Installation Test - 2000V rate of consumption

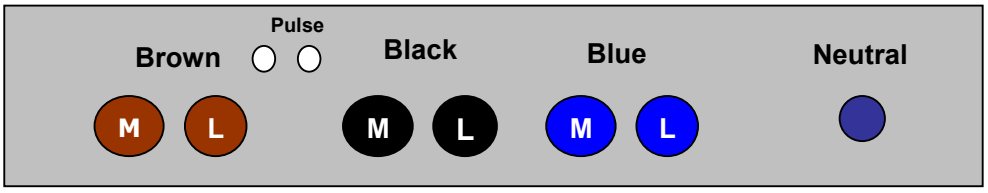
Terminal Sizes – Diameter

8.2mm Wholecurrent
2.6 mm Pulse
Terminals conform to ENISO 5685 Pt 1

Wiring Diagram – Wholecurrent 40 – 100 amp



Wiring Diagram – Wholecurrent 40 – 100 amp - Pulsed



Weight

0.9kg

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Whitegate,White Lund Trading Estate, Lancaster,
Lancashire,England,LA3 3BT
Tel +44 1524 555929 Fax + 44 1524 847009
e mail sales@meters.co.uk

Case

Size 253mm high 170 mm wide 90 mm deep
Terminals – Brass to BS 5685 Pt 1 – connect directly to a Manganin shunt in the live circuit. Sealing Points – case and terminals covers are both suitable for Bowden cable seals

Register

16 digit Liquid Crystal Display, Programmable Display Sequence

Anti Tamper Features

Reverse current – Display shows an 'R' to acknowledge Credit total is not decremented

Pulse Data

Voltage Free Contacts
Single pole, Form A,
Mercury Wetted, Intrinsically Safe,
Diode Suppresses Coil,
Internal Magnetic Shield,
Fully Encapsulated,
Plastic Case.

ELECTRICAL AND OPERATING CHARACERISTICS

Characteristics	Units	
CONTACT RATINGS		
Power, Switching Voltage,	Vdc, Maximum	500
Switching Current,	Amperes, Maximum	2
Switching Current, Carry	Amperes, Maximum	3
CONTACT RESISTANCE	Ohms, Maximum	0.08
Initial Operating Temperature	Degrees, Celsius	-20 to +70
Storage Temperature	Degrees, Celsius	-35 to +105
Mounting Position	Degrees from Vertical	30
Vibration Release	G'S, Max, 10-2000 Hz	
Shock Resistance	G's, Max, 11ms ½ Sine	5
INSULATION RESISTANCE		
Across Open Contacts	Ohms, Minimum	10 10
Between Isolated Pins	Ohms, Minimum	10 10
TIMING		
Operate Time	ms, Nominal	3.0
Release Time	ms, Nominal	3.0
Drain Time	Seconds, Maximum	30
VOLTAGE HOLD-OFF		
Across Open Contacts	Vdc, Minimum	1500
Coil to E.S. Shield	Vac, Minimum	---
Coil to Contacts	Vac, Minimum	4000
Between Isolated Pins	Vac, Minimum	

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Programming
Pre programming before despatch

Programming options (examples)
kWh (standard) kVarh, Import & Export, kWh & kVa demand,Maximum Demands Pulsed Outputs, 8 Tariffs

SPECIAL TESTS

COIL CHARACTERISTICS @ 25* C

Nominal Coil Voltage Vdc	12
Coil Resistance +10% Ohms	745
Must Not Operate Vdc	--
Must Operate Vdc	9.0
Must Release Vdc	1.0
Maximum Coil Voltage Vdc	20

Temperature Range
Operating Range - 10c to 45c
Limit range of operation -20c to 55c
Storage range –25c to 70c
This complies with IEC 1036 4.3.1

EMC Standards
Full compliance meeting generic standard EN50091-2 and immunity standard EN50082-2 for industrial environments

Safety Standard
Complies with EN61010 installation category 11 Pollution degree 2

RoHS & WEE Directives
Compliance with both European directives

CE

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