



Matrix Metering Ltd
Electricity Meter Manufacturers
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Three Phase Credit Meter - Wholecurrent (Wired Directly) Technical Data

Order Codes – JG3/WC Standard Wholecurrent Meter (WC)
 JG3/WC/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 compliant to EMS Regulations BS EN 50081 –1 BS EN 50082 –1



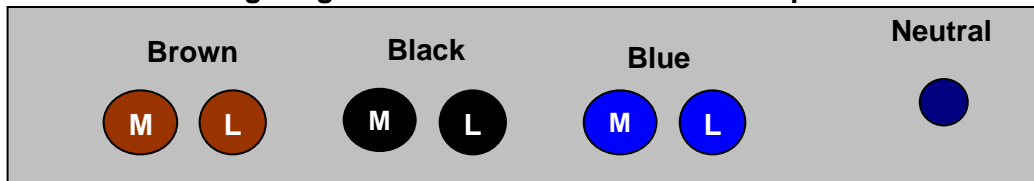
Operational Data

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

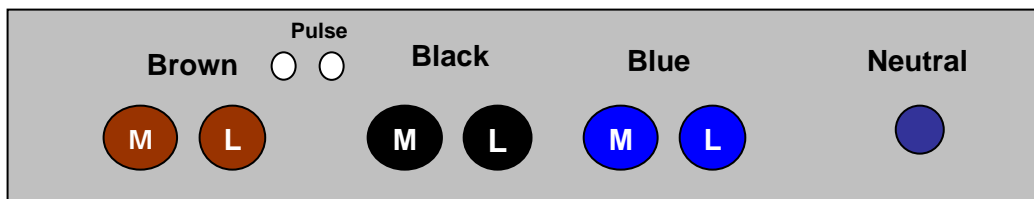
Terminal Sizes – Diameter

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

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





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

Programming

Pre programming before despatch

Programming options (examples)

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





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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

