

Single Phase BS Standard Credit Meter

5254E

Technical data



The 5254E meter is a British Standard single phase multi rate time-of-use static watt-hour meter

Date:05/12/08 Document Number IB063 5254E Technical Specification

5254E Technical	Specifications		
General		Function Standby	<5s
		(depending on duration of failue))
Voltage		Detection of energy direction ar	nd phase <5s
Nominal Voltage Un	220-240V	voltage	
Voltage Range	80-115%Un	Power Supply Quality	
Voltage Withstand	415V Continuous	The meter complies with EN630 Voltage range and 7.1.2 Voltage interruptions	
Frequency		Power Consumption	
Nominal Frequency	50Hz	Voltage Circuit	
Frequency Variation	+/- 2%	vollago Circuit	<5W
			<25VA
IEC-Specific Data		Current Circuit	<4VA
Current		Environmental Influences	
Base Current		Temperature Test IEC62	053-21, IEC62053-23
Direct Connection Ib	20A	- , 5	
Current Max		Temperature Range	4000 + 4500
Imax	100A	Operation Power Measurement Range	-10°C to +45°C -20°C to +55°C
Magazinamant Assurasi		Storage	-20°C to +70°C
Measurement Accuracy		This complies with EN 62052-1	
Measuring Accuracy	C C2052 24 Class 4 at 2	This complies with Liv 02002 T	1.2000 30011011 0.1
IE	C 62053-21 Class 1 or 2	Temperature Coefficient	
Measurement Behaviou	r	Range	From -10°C to +45°C
Starting Current		Typical mean value	±0.015% per K
IEC	Class 1 0.4% of lb	$cos\phi = 1$ (from Imin to Imax)	±0.05% per K
	Class 2 0.5% of lb	cosφ=0.5 (from ltr to I _{max})	±0.07% per K
Max Measuring Range		Impermeability to IEC 60529	IP51
	80mA up to 100A	Shock Test	BS EN60068-2-27
Approvals		SHOCK TEST	DS EIN00000-2-21
Quality		Electromagnetic Compatib	ility
· ·	actured to IS) 9001:1994	Electrostatic Discharges	to IEC 610000-4-2
OFGEM Approval Number	actarea to 10, 0001.1001	Contact Discharges	8kV
от одина фр. от от от от от	1013	Air Discharges	15kV
Certified Life		Electromagnetic RF Fields	to IEC 610000-4-3
	20 Years	80 MHz to 2 GHz	at least 10V/m
		Radio Interference suppression	
General		Foot Tuesdainst Donat Toot	Class B
Operating Behaviour		Fast Transient Burst Test With basic current lb:	to IEC 610000-4-4
Voltage Interruptions (Power Down)		For current and voltage circuits	4kV
Blocking of inputs and output	,	For auxiliary circuits >40V	4kV
Standby Operation for	0.15s	With open current circuit	→A V
Data Storage after	0.15s	for voltage and current circuits	4kV
Switch Off	after approx 0.15s	ie. ie.iage and danem endane	111.7
		Fast Transient Surge Test	to IEC 610000-4-5
Voltage Restoration (Power	Up)	Impulse Voltage	4kV
		-	

Insulation Strength

Destanting Olean II to IEOCOCOEO 404	
Protection Class II to IEC626050-131	<u></u> 2

Display

Characteristics	
Type	LCD
Digit size	7mm
Number of Digits	6 significant numbers 2dp

Communication interfaces

Optical Interface	
Туре	Serial, bi-directional interface
Protocol	IEC62056-21

Case Material

Base, Top Cover and Terminal Cover

Flame retardant and UV stabilised polycarbonate

Weight and Dimensions

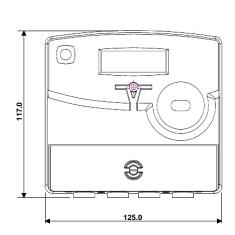
Weight	
Standard	400g
Dimensions	
Width	125mm
Height	117mm
Depth	45.5mm
Height (with extended terminal cover)	148mm

Terminal Details	
Arrangement	BS5685
Size	6mm diameter

Connections

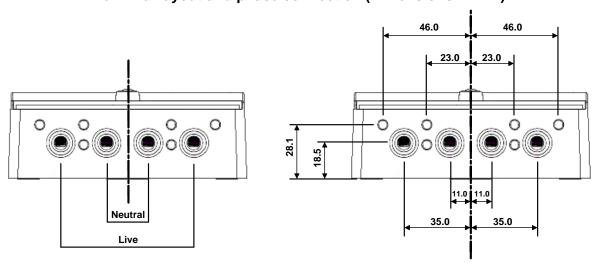
Standard layout and dimensions

Dimensions

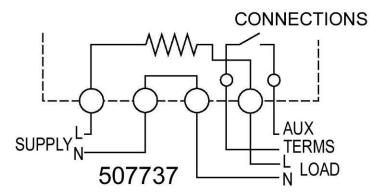




Terminal layout and phase connection (Dimensions in mm)



Wiring Diagram



Single phase with Auxillary 2A Relay

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