

Circutor M22348.

DHC-96 mVdc Digital Voltmeter Shunt User Manual

Model: M22348. | Brand: Circutor

1. INTRODUCTION

The Circutor DHC-96 mVdc Digital Voltmeter Shunt (Model M22348.) is a sophisticated digital instrument panel designed for precise monitoring, regulation, and control of electrical variants and process signals. This device is capable of displaying measured electrical values or proportional values of process signals, making it suitable for a wide range of industrial and climate solar installations.

Key features include:

- High accuracy in measurement.
- Programmable measurement input.
- Integrated relay output for control and alarm functions.
- Universal power supply compatibility (80-270 Vca/cc and 16-36 VCC).
- Frontal IP 54 protection for enhanced durability.
- Galvanic insulation between external circuits.
- Self-configurable decimal point.
- Designed for panel installation (96 x 49 mm).



Figure 1: Front view of the Circutor DHC-96 mVdc Digital Voltmeter Shunt, showing its digital display and control buttons.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your DHC-96 device. Ensure all power sources are disconnected before proceeding with installation.

2.1 Panel Mounting

1. Prepare a panel cutout with dimensions of 96 x 49 mm.
2. Insert the DHC-96 unit into the cutout from the front.
3. Secure the unit using the provided mounting clips or brackets from the rear of the panel. Ensure a snug fit to maintain the IP 54 frontal protection rating.

2.2 Power Supply Connection

The DHC-96 supports a universal power supply. Connect the power source to the designated terminals on the rear of the unit.

1. For AC/DC power, connect to 80-270 Vca/cc terminals.
2. For DC power, connect to 16-36 VCC terminals.
3. Ensure correct polarity for DC connections.

2.3 Measurement Input Connection

Connect the signal source to the programmable measurement input terminals. Refer to the wiring diagram provided with your specific model for detailed connection points.

1. For voltage measurements, connect the voltage source.
2. For current measurements, connect through a shunt or current transformer as appropriate for your application.
3. Ensure galvanic insulation between external circuits is maintained.

2.4 Relay Output Connection

The DHC-96 features two output relays for control and alarm functions. Connect these relays to your external control systems or alarm indicators as required.

1. Identify the relay output terminals.
2. Wire the relays according to your application's control logic.
3. Configure alarm delays and interlocking settings via the device's menu.

3. OPERATING INSTRUCTIONS

Once installed and powered, the DHC-96 is ready for operation. The front panel features a digital display and control buttons for configuration and monitoring.

3.1 Display Overview

The digital display shows the measured electrical variant (e.g., voltage, current, frequency) or the proportional value of a process signal. The unit automatically adjusts the display based on the configured measurement type.

- **DC Systems:** Capable of measuring voltage, current, frequency, and other industrial process variables.
- **AC Models:** Perform measurements in True Effective Value (TRMS).
- **Decimal Point:** The decimal point is self-configurable to suit your measurement precision requirements.

3.2 Button Functions

The front panel buttons allow for navigation through menus, parameter configuration, and display adjustments. Specific button functions may vary slightly depending on the firmware version.

- **Left/Right Arrows (< / >):** Typically used for navigating through menu options or adjusting values.
- **Up/Down Arrows (^ / v):** Used for increasing/decreasing values or selecting options.
- **Menu/Enter Button:** Used to access the main menu, confirm selections, or save settings.
- **Escape/Back Button:** Used to exit a menu or cancel an operation.

3.3 Configuration and Programming

The DHC-96 allows for programming various parameters to suit specific application needs. This includes setting the measurement input type, configuring alarm thresholds, and defining relay behaviors.

1. Access the configuration menu by pressing the Menu/Enter button.
2. Navigate through the menu options using the arrow buttons.
3. Select the desired parameter to modify and adjust its value.
4. Save changes before exiting the menu.
5. Refer to the detailed programming guide (if available separately) for advanced configurations.

4. MAINTENANCE

The DHC-96 is designed for reliable operation with minimal maintenance. Regular inspection and cleaning will help ensure its continued performance.

- **Cleaning:** Periodically clean the front panel with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the display or casing.
- **Inspection:** Regularly inspect the wiring connections for any signs of wear, corrosion, or looseness. Ensure the unit is securely mounted in its panel cutout.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage. The IP 54 frontal protection helps against dust and splashing water, but the unit is not designed for immersion.
- **No User-Serviceable Parts:** The DHC-96 contains no user-serviceable parts. Do not attempt to open the casing, as

this will void the warranty and may expose you to electrical hazards.

5. TROUBLESHOOTING

If you encounter issues with your DHC-96, refer to the following common troubleshooting steps. For problems not listed here, contact Circutor technical support.

- **No Display/Power:**
 - Check the power supply connections to ensure they are secure and correctly wired.
 - Verify that the power source voltage is within the specified range (80-270 Vca/cc or 16-36 VCC).
 - Check for any tripped circuit breakers or blown fuses in the power circuit.
- **Incorrect Readings:**
 - Ensure the measurement input is correctly connected and the signal source is active.
 - Verify that the device's measurement input type is correctly configured in the settings to match your application (e.g., voltage, current, process signal).
 - Check for any external interference or noise affecting the signal.
 - Confirm the decimal point setting is appropriate for the expected values.
- **Relay Not Activating:**
 - Check the relay output wiring for proper connection to the external control system.
 - Verify the alarm thresholds and relay logic are correctly configured in the device's settings.
 - Ensure the measured value has exceeded or fallen below the set alarm threshold.
 - Check for any configured alarm delays or interlocking conditions that might prevent immediate activation.

6. SPECIFICATIONS

Attribute	Value
Manufacturer	Circutor
Part Number	M22348.
Item Model Number	M22348.
Product Dimensions	3.01 x 1.93 x 3.78 inches
Item Weight	7 ounces
Color	Black
Style	Cir
Power Source	Electric
Item Package Quantity	1
Batteries Required?	No

Attribute	Value
ASIN	B08WL8FMDB
Date First Available	August 15, 2023

7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Circutor website. Warranty terms and conditions may vary by region and product.

For technical support, service, or inquiries regarding your DHC-96 mVdc Digital Voltmeter Shunt, please contact Circutor customer service or your authorized dealer. Provide your product model number (M22348.) and serial number (if applicable) when seeking support.

You can find more information and contact details on the official Circutor website:www.circutor.com

Related Documents - M22348.

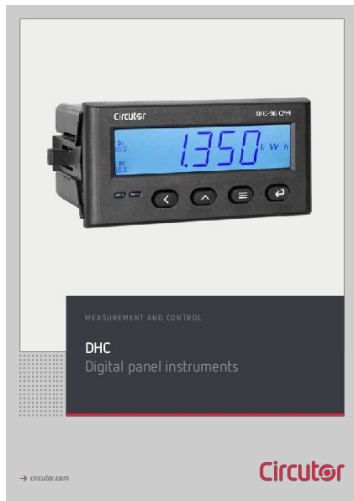
	Circutor URBAN & URBAN WB EV Charging Station Manual User and configuration guide for Circutor URBAN and URBAN WB electric vehicle charging stations, covering installation, operation, and technical specifications.
	Circutor line-TCPRS1 RS-485/RS-232 to TCP/IP Converter Installation Guide Installation guide for the Circutor line-TCPRS1, a gateway for converting RS-485 or RS-232 physical environments to Ethernet and/or Wi-Fi. Features Web Server and Android app connectivity.
	CIRCUTOR CVM-E3-MINI-ITF-WiEth Power Analyzer Installation and Technical Guide Comprehensive installation guide and technical specifications for the CIRCUTOR CVM-E3-MINI-ITF-WiEth power analyzer. Learn about its features, connection diagrams, electrical parameter measurements, and operational key functions for various network types.

 RS-485 to TCP/IP converter  INSTRUCTION MANUAL 0000001-03-004 	Circutor TCPRS1+ RS-485 to TCP/IP Converter Instruction Manual Comprehensive guide to the Circutor TCPRS1+ RS-485 to TCP/IP converter, covering safety, installation, operation, communications (Wi-Fi, Ethernet), technical specifications, and maintenance.
 RS-485 - LoRa™ converter  INSTRUCTION MANUAL 0000001-03-005 	Circutor Bridge LR RS-485 - LoRa™ Converter Instruction Manual Comprehensive instruction manual for the Circutor Bridge LR, an RS-485 to LoRa™ converter. Covers installation, operation, technical features, and configuration.
 Power analyzer  INSTRUCTION MANUAL 0000001-03-014 	Circutor CVM-C5 Series Power Analyzer Instruction Manual Instruction manual for Circutor CVM-C5 series power analyzers, including models CVM-C5-ITF-485, CVM-C5-MC-485, and CVM-C5-mV-485. Provides detailed information on installation, operation, programming, and technical specifications.

Documents - Circutor – M22348.



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MD22 DHC 96 M22348 EN Datenblatt Englisch mVdc CIRCUTOR digitales Einbauminstrument als Voltmeter Amperemeter oder Prozessanzeige TDE Instruments tde instruments de |||
Digital instruments 96 x 48 Page 1 of 5 DHC-96 mVdc DHC-96 mVdc, digital millivoltmeter shunt measure, 96 x 48, 2 output relays Code: **M22348**. Protocol: Modbus/RTU Scale: 60 mV / 75 mV / 100 mV / 150 mV / 200 mV IP: 54 Communications: RS-485 N relays: 2 Digital inputs: 2 Analog output...
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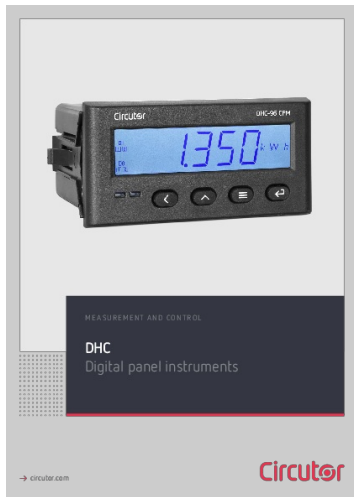
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MEASUREMENT AND CONTROL

Front IP 54 / Back IP 20 96 x 49 x 76,5 mm EN 61000-6-2, EN 61000-6-4 Code M22318. M22328. M22338. **M22348**. M22358. M22368. M22378. M223A8. Type DHC-96 V AC DHC-96 LV DC DHC-96 HV DC DHC-96 mV DC DHC...

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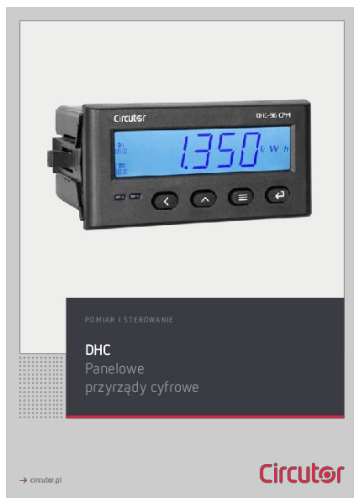
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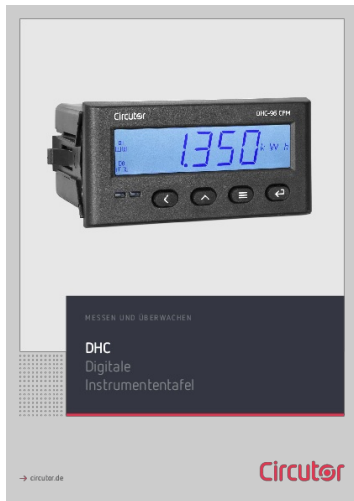
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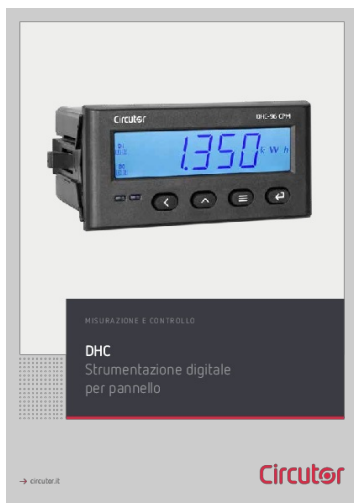
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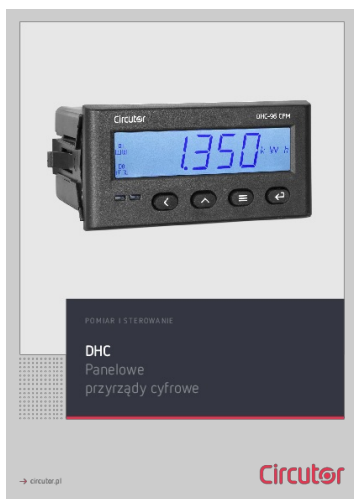
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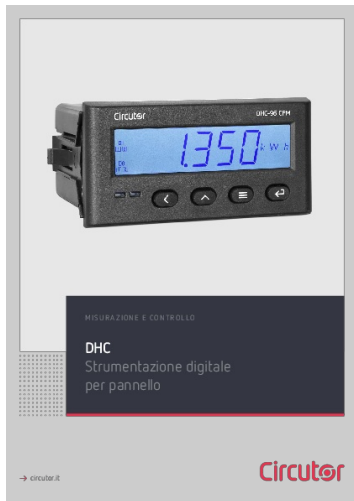
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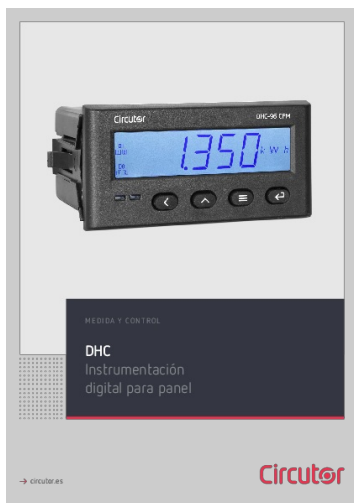
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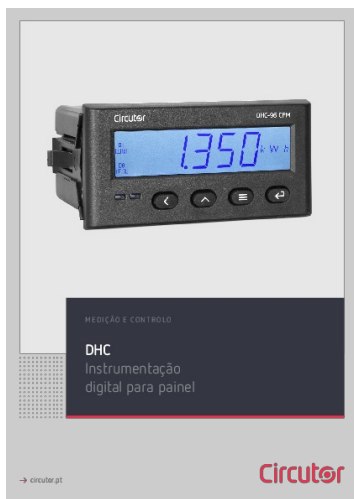
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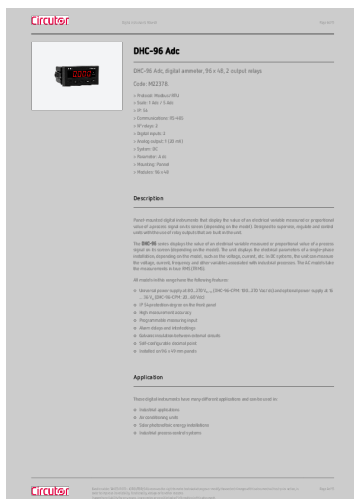
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MD22 DHC 96 M22378 EN Datenblatt Englisch Adc CIRCUTOR digitales Einbauminstrument als Voltmeter Amperemeter oder Prozessanzeige TDE Instruments tde instruments de |||

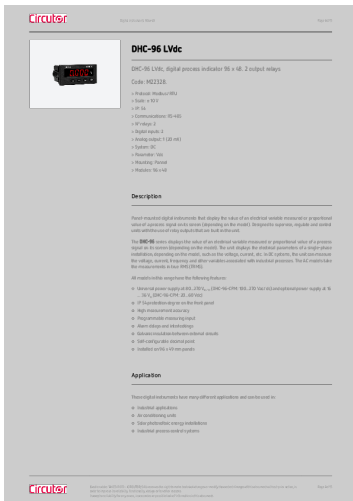
Digital instruments 96 x 48 Page 1 of 5 DHC-96 Adc DHC-96 Adc, digital ammeter, 96

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DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU

M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i...

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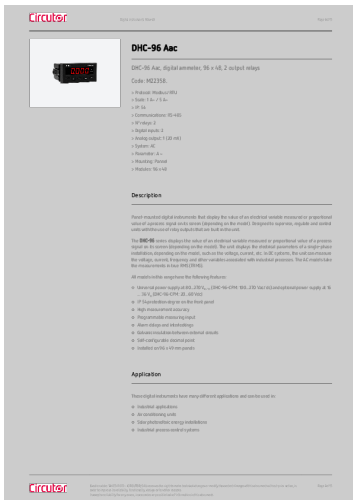


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DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i... lang:en score:23 filesize: 1.46 M page_count: 5 document date: 2023-05-11

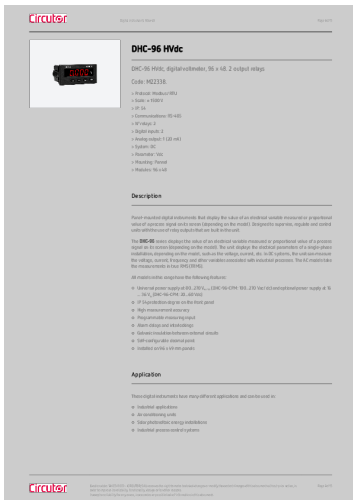


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Digital instruments 96 x 48 Page 1 of 5 DHC-96 Aac DHC-96 Aac, digital ammeter, 96 x 48, 2 output ... dbus/RTU 10 Vdc / 24 Vdc / 48 Vdc RS-485 2 1 20 mA M22338.

DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i... lang:en score:23 filesize: 1.45 M page_count: 5 document date: 2023-05-11



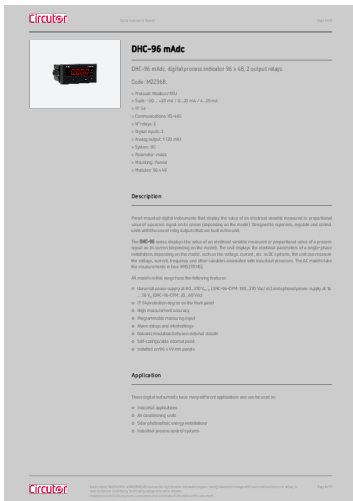
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MD22 DHC 96 M22338 EN Datenblatt Englisch HVdc CIRCUTOR digitales Einbauinstrument als Voltmeter Amperemeter oder Prozessanzeige TDE Instruments tde instruments de |||

Digital instruments 96 x 48 Page 1 of 5 DHC-96 HVdc DHC-96 HVdc, digital voltmeter, 96 x 48. 2 out ... dbus/RTU 10 Vdc / 24 Vdc / 48 Vdc RS-485 2 1 20 mA M22338.

DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i...

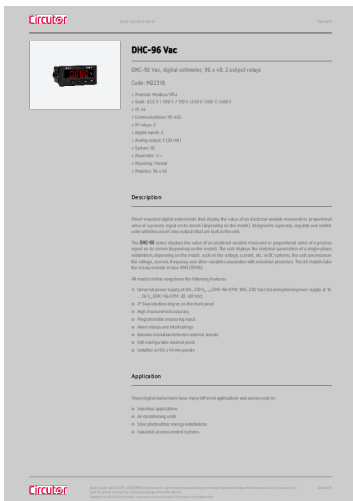
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MD22 DHC 96 M22368 EN Datenblatt Englisch mAdc CIRCUTOR digitales Einbauminstrument als Voltmeter Amperemeter oder Prozessanzeige TDE Instruments tde instruments de |||

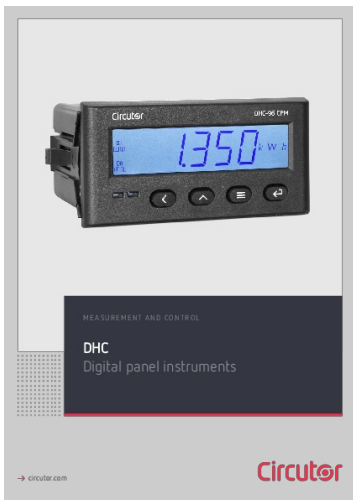
Digital instruments 96 x 48 Page 1 of 5 DHC-96 mAdc DHC-96 mAdc, digital process indicator 96 x 48 ... dbus/RTU 10 Vdc / 24 Vdc / 48 Vdc RS-485 2 1 20 mA M22338. DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i... lang:en score:23 filesize: 1.47 M page_count: 5 document date: 2023-05-11



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MD22 DHC 96 M22318 EN Datenblatt Englisch Vac CIRCUTOR digitales Einbauminstrument als Voltmeter Amperemeter oder Prozessanzeige TDE Instruments tde instruments de |||

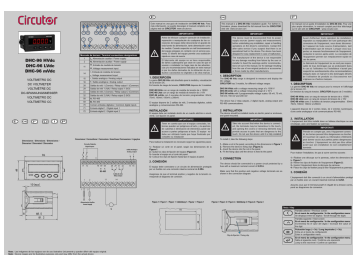
Digital instruments 96 x 48 Page 1 of 5 DHC-96 Vac DHC-96 Vac, digital voltmeter, 96 x 48. 2 outpu ... dbus/RTU 10 Vdc / 24 Vdc / 48 Vdc RS-485 2 1 20 mA M22338. DHC-96 HVdc Modbus/RTU Ammeters **M22348**. DHC-96 mVdc Modbus/RTU M22358. DHC-96 Aac Modbus/RTU M22378. DHC-96 Adc Modbus/RTU Process i... lang:en score:23 filesize: 1.47 M page_count: 5 document date: 2023-05-11



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Digital voltmeter DHC 96 mVdc ammeter mAdc DP EN alfresco circutor attach workspace SpacesStore 0b8b5cd6 2427 4567 acb7 a2ac892bfeab guest true |||

MEASUREMENT AND CONTROL 54 / Back IP 20 96 x 49 x 76,5 mm EN 61000-6-2, EN 61000-6-4 Code M22318. M22338. M22358. M22378. **M22348**. M22328. M22368. M223A8. M223C8. M22388. Type DHC-96 Vac DHC-96 HVdc DHC-96 Aac DHC-96 Adc D... lang:en score:23 filesize: 2.24 M page_count: 8 document date: 2021-08-16



[pdf] Dimension Guide

Digital instruments DHC 96 Series M225A01 60 docs circutor |||

DHC-96 HVdc DHC-96 LVdc DHC-96 mVdc VOLTMETRO DC DC VOLTMETER VOLTMETRE DC DC-SPANNUNGSMESSER VOLTIMETRO DC VOLTMETRO CC Dimensiones / Dimensions / Dimensiones / Dimension / Dimensioni / Dimenses 96 10 max 71 72 71 72 70 59 58 70 59 58 28 29 31 32 28 29 31 32 1 2 12 11 14 11 14 15 16 15 1... lang:es score:22 filesize: 787.21 K page_count: 2 document date: 2020-02-13



[\[pdf\]](#) User Manual Instructions

Digital instruments DHC 96 Series M225B01 03 docs circutor |||

DC Voltmeter DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc INSTRUCTION MANUAL

M225B01-03-20A DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc 2 Instruction Manual

DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc SAFETY PRECAUTIONS Follow the warnings described in this manual with the symbols shown below. DANGER Warns of

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Voltmetro DC DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc MANUAL DE

INSTRUCCIONES M225B01-01-20A DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc 2

Manual de Instrucciones DHC-96 mVdc, DHC-96 LVdc, DHC-96 HVdc

PRECAUCIONES DE SEGURIDAD Siga las advertencias mostradas en el presente manual, mediante los smbolo...

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Краткий Каталог 2020 CIRCUTOR I Снижение экономической стоимости эксплуатации установок и процессов благодаря оптимизации сокращению потребления кВтч кВарч Short Form RU docs circutor

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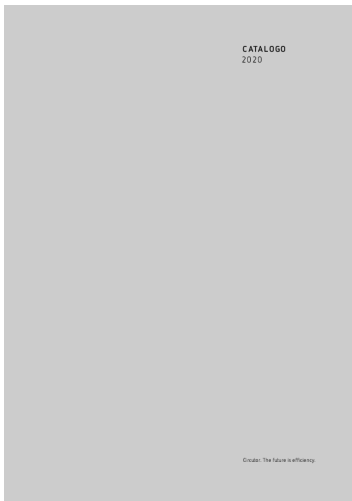
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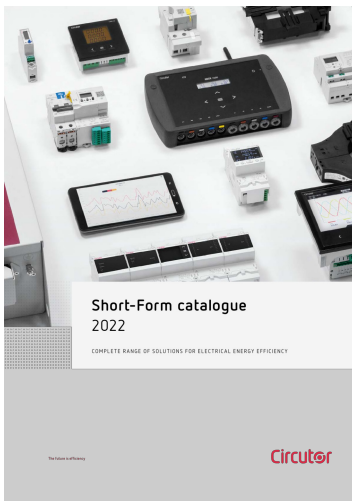
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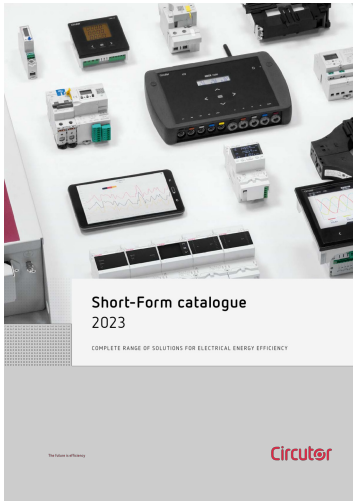
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2 1 20 mA 1 Adc / 5 Adc RS-485 Modbus/RTU DHC-96 mVdc * **M22348**. DC A dc 2 2

1 20 mA 60 mV / 75 mV / 100 mV / 150 mV / 200 mV RS-485 Modbus/RTU Pro...

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