



Metering instruments -  
Voltmeter  
DMK70R1  
3

Product designation

Product type designation

DIN rail module number

#### Auxiliary supply Us

|                                   |     |           |
|-----------------------------------|-----|-----------|
| Auxiliary rated supply voltage AC | VAC | 220...240 |
|-----------------------------------|-----|-----------|

Operational frequency

|     |    |    |
|-----|----|----|
| min | Hz | 50 |
| max | Hz | 60 |

Power consumption

|     |    |     |
|-----|----|-----|
| Max | VA | 3.6 |
|-----|----|-----|

Power dissipation Max

|   |     |
|---|-----|
| W | 1.8 |
|---|-----|

#### Measuring voltage inputs

Rated voltage (Ue)

|               |     |     |
|---------------|-----|-----|
| phase-phase   | VAC | 600 |
| phase-neutral | VAC | 347 |

Operating voltage range

|               |     |          |
|---------------|-----|----------|
| phase-phase   | VAC | 15...660 |
| phase-neutral | VAC | 10...382 |

Voltage inputs operational frequency

|     |    |    |
|-----|----|----|
| min | Hz | 45 |
| max | Hz | 66 |

Voltage inputs measurement method

True RMS

#### Accuracy

|             |                      |
|-------------|----------------------|
| VLN voltage | ±0.25% f.s. ±1 digit |
| VLL voltage | ±0.25% f.s. ±1 digit |

#### Insulations

Rated insulation voltage Ui IEC/EN

|   |     |
|---|-----|
| V | 600 |
|---|-----|

#### Mechanical features

Housing type

Polyamide

Terminals type

Fixed

Conductor cross section

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 0.2 |
| Max | mm <sup>2</sup> | 4   |
| min | AWG             | 24  |
| Max | AWG             | 12  |

Tightening torque (Max)

|      |     |
|------|-----|
| Nm   | 0.5 |
| lbin | 4.5 |

Fixing

Din rail

Weight

|   |     |
|---|-----|
| g | 264 |
|---|-----|

#### Ambient conditions

Temperature

VOLTMETER, THREE-PHASE, 3 PHASE VOLTAGE VALUES, 3 PHASE TO PHASE VOLTAGE VALUES, 3 MAX PHASE VOLTAGEVALUES, 3 MAX PHASE TO PHASE VOLTAGE VALUES, 3 MIN PHASE VOLTAGE VALUES, 3 MIN PHASE TO PHASE VOLTAGE VALUES. RELAY OUTPUT WITH CONTROL AND PROTECTION FUNCTIONS

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -20 |
| max | °C | +60 |

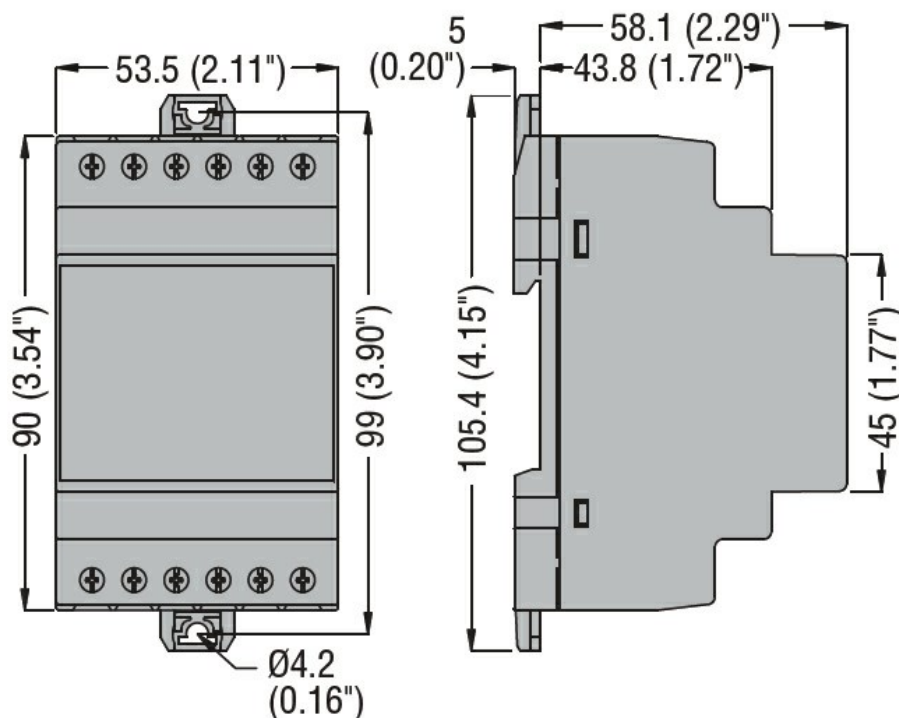
Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +80 |

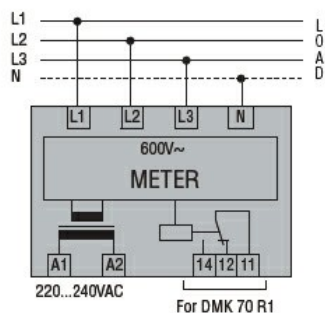
Protection degree

IP40

## Dimensions



## Wiring diagrams



## Certifications and compliance

Compliance

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

Certificates

EAC

## ETIM classification

ETIM 8.0

EC002306 -  
Voltmeter for  
installation