DATA SHEET

DHZ 5/63

for digital verified detection of alternating current

Article number 09980973

Internetlink

Function

Energy counters (current or electricity meters) generally detect the amount of active power consumed in total. The digital energy counters of series DHZ are directly measuring counters and detect the active energy in alternating current networks. The detected power value can be easily viewed via the multifunction LC display or can be further processed via the standardised So pulse output. The devices are highly accurate and are verified. The DHZ 5/63 So is a digital, verified speed counter for detecting active energy in alternating current networks. In addition to the energy value, the LC-display shows a second resettable energy value, as well as the power, voltage, current and power factor. The display is switched hands-free using a magnet supplied, even for the display test and the version display. The DHZ is verified and supplied with a sealable cover.

Features

rated current: 5 (63) A, rated operating voltage: 1 x 230 V AC, verified design, accuracy class 1 (1%) as per IEC 1036, So output as per DIN 43864 with 1000 impulses/kWh, generously dimensioned terminals, only one module width unit wide

Mounting

quick fastening to mounting rail, any installation position

Applications

The counters allow the exact calculation of energy costs, e.g. in flats, leisure facilities and commercial buildings, as well as the recording of consumption from individual devices and system parts. In connection with the clock and operating hour counter DTZ 4 of the Dupline bus system, the counters also facilitates the recording and further processing of energy values across large distances.

Notes

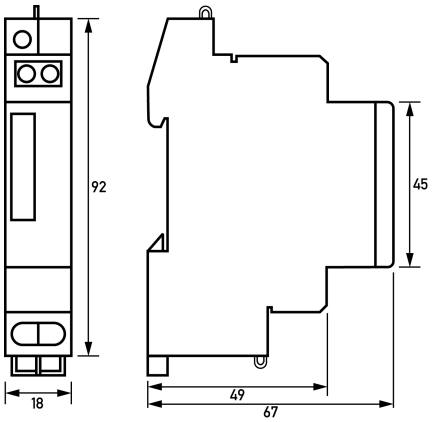
A distance of 1 module width unit (17.5 mm) to neighbouring devices must be observed if the DHZ is operated at full capacity or the heat generated by the neighbouring devices exceeds 3.5 W.

Technical Data

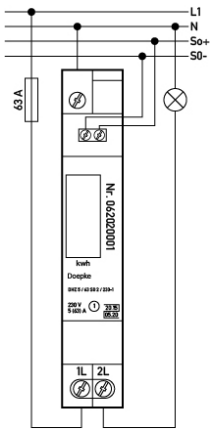
Technical Data	DHZ 5/63
Series	DHZ 5/63
Measuring category	I
Rated current transformer measurement	5 A
Accuracy active power rel	1 %
Sensor measurement procedure	Direktmessung
Serial IF IF1 Specification	Impulse output
Serial IF IF1 Protocols	So
Number of pulse per kWh	1000
Pulse duration	0.1 s
Operating voltage (AC)	230 V (184 V ... 264.5 V)
Operating frequency	50 Hz
	Display Multi function
Type	LCD
Endurance	10 Jahre
number of lines	1
Characters per line	6

Technical Data	DHZ 5/63
Display format	5.1
	Test circuit
Rated voltage (AC)	230 V
Rated current (AC)	max. 63 A
Rated frequency	50 Hz
Power dissipation per pole AC-1	0.3 W
	Screw-type terminal bottom (Measuring circuit)
Allowed types of wires	flexible conductors, massive conductors
Cross section solid	1-wire: max. 16 mm²
Cross section stranded	1-wire: max. 10 mm²
Tightening torque	max. 1.9 Nm
	Screw-type terminal top (Neutral conductor)
Cross section solid	1-wire: max. 2.5 mm²
Tightening torque	max. 0.5 Nm
	Screw-type terminal top (Pulse output)
Clamping area	max. 0.75 mm²
Tightening torque	max. 0.1 Nm
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Permissible humidity	max. 75 %
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polyamide 6 (PA 6)
Protection class	IP51
sealable	false
Width	18 mm
Height	93 mm
Depth	67 mm
Width (modules)	1
verified	true
Certified	true
Accuracy class	B
PTB approval number	20.15/05.20

Dimensions



Wiring example



Dimensional drawing Group view

Wiring diagram