



Figure similar

DIRECTIONAL SHORT CIRCUIT AND EARTH FAULT DETECTOR
 VOLTAGE MEASUREMENT VIA RESISTIVE VOLTAGE DIVIDER,
 CONVENTIONAL VT OR 230V DIRECT FOR LV APPLICATIONS FOR
 LOW-POWER CURRENT SENSORS 1 BINARY INPUT 2 BINARY
 OUTPUTS MEASUREMENT/CALCULATION OF VALUES
 U,I,P,Q,S,F,COS PHI ENERGY COUNTER COMMUNICATION MODBUS
 RTU POWER SUPPLY DC24-110V / AC230V

Product details	
product function / connection to capacitive LRM voltage detecting systems	No
Measuring functions	
number of events	20
product function / phase angle measurement	Yes
product function / active power measurement	Yes
product function / reactive power measurement	Yes
product function / apparent power measurement	Yes
product function / power factor measurement	Yes
product function / measurement of ground current	Yes
product function / calculation of ground current	Yes
accuracy class / according to IEC 61557-12	0.5
Product Functions	
automatic calibration	No
adjustable rated value of primary current	50 ... 1 000 A
adjustable rated value of primary voltage	400 V ... 36 kV
correction factors for voltage values according to IEC 61869-11	Yes
correction factors for current values according to IEC 61869-10	Yes
reversal of load flow direction per phase	Yes
inversion of active power, reactive power	Yes
phase-rotation supervision	Yes
min/max pointer	Yes
direct low voltage measurement	Yes
remote parameterization	Yes
remote firmware update	Yes
password protection	Yes
undervoltage detection	Yes
overvoltage detection	Yes
overcurrent detection	Yes
self-test	Yes
note	German, English, Spanish, Portuguese, French
Short-Circuit Indicator Functions	
product function / phase-selective fault acquisition	Yes
product function / ground fault detection with cos phi/sin phi	Yes
product function / ground fault detection with pulse	Yes

detection	
product function / ground fault detection with earth leakage wiper	Yes
product function / parameter group switchover for ground fault detection	Yes
type of distribution system / with regard to neutral point	grounded, insulated, compensated
number of overcurrent-time levels	2
product function / automatic reset of the fault display	Yes
product function / reset of the fault display via digital input	Yes
product function / reset of the fault display via user interface	Yes
product function / reset of the fault display via Modbus	Yes
product function / AMZ overcurrent protection with inverse time over tripping characteristic (NI)	Yes
product function / fault display via LED	Yes
product function / fault display via display	Yes
product function / fault display via Modbus	Yes
product function / monitoring for repeated short-circuits	Yes
product function / intermittent ground fault detection	Yes
product function / inrush current detection	Yes
Energy Management functions	
product function / active energy measurement	Yes
product function / reactive energy measurement	Yes
Measuring inputs	
number of inputs / for voltage measurement	3
number of inputs / for current measurement	3
Supply voltage	
supply voltage / at AC	230 ... 230 V
supply voltage / at DC / rated value	24 ... 250 V
type of voltage / of the supply voltage	AC/DC
line frequency	50 ... 60 Hz
Inputs / Outputs	
number of digital inputs	1
number of digital inputs / note	reset of fault display
number of digital outputs	2
Communication	
protocol / is supported / Modbus RTU	Yes
Time synchronization	
type of time synchronization	Modbus
Mechanical Design	
width	96 mm
height	48 mm
depth	109.5 mm
weight	300 g
fastening method / panel mounting	Yes
type of electrical connection	spring-loaded terminal / screw terminal
Degree of protection / protection class	
protection class IP / on the front	IP40
protection class IP / rear side	IP20
Environmental conditions	
ambient temperature / during operation	-40 ... +70 °C
ambient temperature / during storage	-25 ... +55 °C
mounting height in relation to mean sea level / maximum	2 000 m
Approval certification	
certificate of suitability / CE marking	Yes
Further information	

Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=6MD2321-1AA00-1AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/6MD2321-1AA00-1AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=6MD2321-1AA00-1AA0

Tender specifications

<http://www.siemens.com/specifications>

