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Data sheet 7KG7750-0AA01-0AA0

Power Meter SICAM P50 direct-display control panel installation instrument 96 x 96 mm with graphic display, 2 binary outputs, type of protection: IP41 (standard), RS485 with PROFIBUS DP and Modbus RTU / ASCII

Measuring functions	
sampling frequency / per sampling cycle	3 200 Hz
number of harmonics	19
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 / querying of limit violations	Yes
product function / logic function	Yes
product function / measurement of the harmonic active power	No
type of measured value detection / min./max. values	Yes
type of measured value detection / mean values	Yes
accuracy class / of the measuring instrument / for measured variable active power / according to IEC 62053-22	0,5S
accuracy class / of the measuring instrument / for measured variable reactive power	1
storage capacity	0.001 Gbyte
Power Quality functions	
power quality assessment function / transient detection/logging	No
power quality assessment function / Total Harmonic Distortion (THD)	Yes
power quality assessment function / voltage dip	No
power quality assessment function / measurement of the harmonic phase angle	No
product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15	No
File formats	
type of data transmission / via CSV	No
Energy Management functions	
product function / active energy measurement	Yes
product function / reactive energy measurement	Yes
product function / apparent energy measurement	Yes
energy management function / calculation of load profiles	No
energy management function / tariffs	No
energy management function / load factor (TOU)	No
number of tariffs	0
Measuring inputs	
number of inputs / for voltage measurement	4
number of inputs / for current measurement	3
input voltage / between L and L / maximum	690 V
input voltage / between L and N / maximum	400 V
input current / maximum	10 A
Supply voltage	
supply voltage / at AC	110 ... 230 V
supply voltage / at DC	24 ... 250 V
measuring range frequency / at the measurement inputs	45 ... 65 Hz
type of voltage / of the supply voltage	AC/DC
Inputs / Outputs	
number of analog inputs	0
number of digital inputs	0

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number of analog outputs	0
number of digital outputs	2
Communication	
protocol / is supported / IEC 61850	No
protocol / is supported / Modbus TCP	No
protocol / is supported / Modbus RTU	Yes
protocol / is supported / PROFIBUS DP	Yes
protocol / is supported / SNMP	No
protocol / is supported / OPC UA with PubSub	No
protocol / is supported / IEC 60870-5-103	No
communication function / Modbus RTU as master	No
number of ports / of the Ethernet interface	0
product function / gateway function for Modbus RTU	No
Cybersecurity	
type of access control / role-based access control (RBAC)	No
product function / logging via Audit log	No
product function / logging via Security Eventlog	No
service / as web server / HTTPS	No
product function / firmware identifier	No
Time synchronization	
type of time synchronization	RTC, Modbus RTU, binary input
Mechanical Design	
width	96 mm
height	96 mm
depth	94 mm
weight	600 g
product feature / with display	Yes
fastening method / DIN-rail mounting	No
fastening method / wall mounting	No
fastening method / rack mounting	Yes
type of electrical connection	Screw terminals
connectable conductor cross-section	2.5 mm²
Degree of protection / protection class	
protection class IP / on the front	IP41
protection class IP / rear side	IP20
Environmental conditions	
ambient temperature / during operation	-25 ... +55 °C
ambient temperature / during storage	-25 ... +70 °C
Approval certification	
certificate of suitability / CE marking	Yes
certificate of suitability / UL approval	No

Further information

Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information- and Downloadcenter (catalogues, leaflets,...)
https://www.siemens.com/energy-automation

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KG7750-0AA01-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/7KG7750-0AA01-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KG7750-0AA01-0AA0

Tender specifications
https://www.siemens.com/specifications

Power Academy - Your training and consulting partner in the area of power transmission and distribution
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