SIEMENS

Data sheet   **6MF2805-0AA00**

CP-8050 Master Module

Figure similar

General technical data

consumed active power / rated value / maximum	4 500 mW
surge voltage / rated value	4 kV
surge voltage resistance	2.5 kV
processor clock frequency	800 MHz
storage capacity / of the RAM	512 Mbyte
storage capacity / of the flash memory	4 Gbyte

Product details

time resolution	1 ms
number of local IO modules / maximum	128
number of allowable IO lines / maximum	16

Measuring functions

sampling interval	10 ms

Supply voltage

type of voltage / of the supply voltage	DC

Inputs / Outputs

number of digital inputs	0
number of isolated output groups	1
number of digital outputs	2
design of the digital output	relais
type of voltage / at digital output	DC
voltage / at DC / per output	24 ... 60 V
voltage / per output	18 ... 70 V
consumed current / per output	1 000 mA
switching capacity apparent power / at AC / at 50 Hz	30 VA
switching capacity active power / at DC	6 ... 30 W
product function / galvanic isolation of the outputs	Yes

Communication

protocol / to the substation as client / is supported / IEC 60870-5-104	Yes
protocol / to the higher-level station as server / is supported / IEC 60870-5-104	Yes
protocol / to the substation as master / is supported / IEC 60870-5-103	Yes
protocol / is supported / IEC 60870-5-103 as slave	Yes
protocol / to the substation as master / is supported / IEC 60870-5-101	Yes
protocol / is supported / IEC 60870-5-101 as slave	Yes
protocol / to the substation as client / is supported / IEC 61850	Yes

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protocol / to the higher-level station as server / is supported / IEC 61850	Yes
protocol / at the point-to-point connection / is supported / Modbus RTU as master	Yes
protocol / is supported / Modbus RTU slave	Yes
protocol / is supported / Modbus TCP as client	Yes
protocol / is supported / Modbus TCP as server	Yes
protocol / is supported / DNP 3.0 serial as master	Yes
protocol / is supported / DNP 3.0 serial as slave	Yes
protocol / is supported / DNP 3.0 TCP as client	Yes
protocol / is supported / DNP 3.0 TCP as server	Yes
protocol / is supported / PROFIBUS DP as master	Yes
protocol / is supported / PROFINET as master	Yes
type of mobile wireless service / is supported / GPRS	No
number of protocols / for standard application / maximum	4
number of protocols / through firmware expansion	4
number of ports / of the Ethernet interface	2
number of interfaces / serial	2

Cybersecurity

type of communication security / Secure 104 according to IEC 62351-3	Yes
type of access control / role-based access control (RBAC)	Yes
type of system monitoring / according to SNMP	Yes
product function / logging via Security Eventlog	Yes
service / as web server / HTTPS	Yes
product function / firmware identifier	Yes

Time synchronization

time synchronization / via telecontrol protocol	Yes
time synchronization / via NTP/SNTP	Yes
time synchronization / via IRIG-B	Yes

Mechanical Design

width	30 mm
height	132 mm
depth	124 mm
product feature / with display	No
fastening method / standard rail mounting	Yes
fastening method / wall mounting	No
fastening method / rack mounting	No
type of electrical connection	screw-type terminals
connectable conductor cross-section	0.2 ... 2.5 mm²
material / of the enclosure	plastic
product feature / plug-in terminal blocks	Yes
product function / with function display	Yes
product function / status display	Yes

Degree of protection / protection class

operating resource protection class	III
degree of pollution	2
protection class IP / on the front	IP 40

Environmental conditions

ambient temperature / during operation	-25 ... +70 °C
ambient temperature / during storage	-30 ... +85 °C
relative humidity	5 ... 95 %
mounting height in relation to mean sea level / maximum	3 000 m
air pressure / maximum	106 kPa

Approval certification

certificate of suitability / CE marking	Yes
certificate of suitability / UL approval	Yes

Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
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,...)
http://www.siemens.com/energy-automation
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=6MF2805-0AA00
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/6MF2805-0AA00
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=6MF2805-0AA00
Tender specifications
http://www.siemens.com/specifications