SIEMENS

Data sheet 6MF2805-0AA00



CP-8050 Master Module

Figure similar

consumed active power / rated value / maximum surge voltage / rated value surge voltage resistance processor clock frequency storage capacity / of the RAM storage capacity / of the RAM storage capacity / of the flash memory 4 Gbyte Product details time resolution 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 number of digital inputs 10 number of digital output groups 11 number of voltage / at digital output 12 design of the digital output 13 coltage / at digital output 14 coltage / at digital output 15 coltage / at 10 C / per output 16 voltage / at 10 C / per output 17 voltage / per output 18 70 V 19 consumed current / per output 10 consumed current / per output 20 switching capacity apparent power / at AC / at 50 Hz 21 switching capacity apparent power / at AC / at 50 Hz 21 switchi	General technical data	
surge voltage resistance processor clock frequency 800 MHz storage capacity / of the RAM 512 Mbyte storage capacity / of the RAM 512 Mbyte 900 MHz storage capacity / of the flash memory 4 Gbyte 900 MHz storage capacity / of the flash memory 4 Gbyte 900 MHz storage capacity / of the flash memory 4 Gbyte 900 MHz storage capacity / of the flash memory 4 Gbyte 900 MHz storage capacity / of the flash memory 10 mm 10	consumed active power / rated value / maximum	4 500 mW
processor clock frequency storage capacity / of the RAM 512 Mbyte storage capacity / of the flash memory 4 Gbyte Product details time resolution 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 digital inputs 1 number of digital output relais type of voltage / at digital output type of voltage / at digital output type of voltage / at digital output type of voltage / at DC / per output voltage / per output 1 18 70 V consumed current / per output voltage / parent power / at AC / at 50 Hz switching capacity apparent power / at DC product / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as client	surge voltage / rated value	4 kV
storage capacity / of the RAM storage capacity / of the flash memory Product details time resolution number of local IO modules / maximum number of local IO modules / maximum 128 number of allowable IO lines / maximum 16 Measuring functions sampling interval Supply voltage type of voltage / of the supply voltage Tour of digital inputs number of digital inputs number of digital inputs 10 number of digital output groups 11 number of digital output groups 12 design of the digital output 12 design of the digital output 13 voltage / at digital output 14 voltage / at DC / per output 15 voltage / at DC / per output 18 witching capacity apparent power / at AC / at 50 Hz switching capacity apparent power / at DC 10 protocol / to the substation as client / is supported / IEC 60870-5-103 protocol / to the substation as master / is supported / IEC 60870-5-103 protocol / is supported / IEC 60870-5-101 as slave protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as client / is suppor	surge voltage resistance	2.5 kV
storage capacity / of the flash memory Product details time resolution	processor clock frequency	800 MHz
Product details time resolution 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 number of digital output groups 1 number of digital output type of voltage / at DC / per output voltage / at DC / per output 24 60 V voltage / at DC / per output consumed current / per output switching capacity apparent power / at AC / at 50 Hz switching capacity apparent power / at DC product function / galvanic isolation of the outputs Communication protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as master / is supported / IEC 60870-5-103 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as master / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client	storage capacity / of the RAM	512 Mbyte
time resolution number of local IO modules / maximum 128 number of allowable IO lines / maximum 16 Measuring functions 10 ms Supply voltage 10 ms Supply voltage DC Inputs / Outputs 0 mumber of digital inputs 0 mumber of digital output groups 1 mumber of digital output 12 mumber of digital output 12 mumber of digital output 12 mumber of digital output 13 mumber of voltage / at digital output 14 mumber of voltage / at digital output 15 mumber of voltage / at digital output 16 mumber of voltage / at digital output 16 mumber of voltage / at digital output 17 mumber of voltage / at digital output 18 mumber of voltage / per output 18 mumber of voltage / per output 10 mumber of voltage / per output / per ou	storage capacity / of the flash memory	4 Gbyte
number of local IO modules / maximum number of allowable IO lines / maximum 16 Measuring functions	Product details	
number of allowable IO lines / maximum Measuring functions 10 ms	time resolution	1 ms
sampling interval 10 ms Supply voltage type of voltage / of the supply voltage DC Inputs / Outputs number of digital inputs number of digital output groups number of digital output groups 1 number of digital output type of voltage / at digital output type of voltage / at digital output voltage / at DC / per output voltage / at DC / per output voltage / per output consumed current / per output switching capacity apparent power / at AC / at 50 Hz switching capacity active power / at DC product function / galvanic isolation of the outputs Communication Protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as master / is supported / IEC 60870-5-103 protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-103 as slave protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-101 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 protocol / is the substation as client / is supported / IEC 60870-5-104 Protocol / is the substation as client / is supported / IEC 60870-5-104 Protocol / is the substation as client / is supported / IEC	number of local IO modules / maximum	128
sampling interval Supply voltage type of voltage / of the supply voltage DC Inputs / Outputs number of digital inputs number of digital outputs 2 design of the digital output type of voltage / at digital output 2 design of the digital output by eof voltage / at DC / per output voltage / at DC / per output voltage / per output consumed current / per output switching capacity apparent power / at AC / at 50 Hz switching capacity apparent power / at DC product function / galvanic isolation of the outputs Communication protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the higher-level station as server / is supported / IEC 60870-5-103 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / to the substation as client / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC 60870-5-101 Protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC 60870-5-101 Protocol / is supported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC Fes 60870-5-101 Fes 60870-5-102 Fes 60870-5-103 Fes 60870-5-103 Fes 60870-5-104 Fes 60870-5-105 Fes 60870-5-105 Fes 60870-5-106 Fes 60870-5-107 Fes 60870-5-107 Fes 60870-5-108 Fes 60870-5-109 Fes 608	number of allowable IO lines / maximum	16
type of voltage / of the supply voltage type of voltage / of the supply voltage number of digital inputs number of digital inputs number of digital output groups number of digital outputs design of the digital output type of voltage / at digital output voltage / at DC / per output voltage / per output consumed current / per output switching capacity apparent power / at AC / at 50 Hz switching capacity active power / at DC product function / galvanic isolation of the outputs Communication protocol / to the substation as client / is supported / IEC 60870-5-104 protocol / to the substation as master / is supported / IEC 60870-5-103 protocol / is supported / IEC 60870-5-103 as slave protocol / to the substation as master / is supported / IEC 60870-5-101 protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is supported / IEC 60870-5-101 as slave protocol / is usupported / IEC 60870-5-101 as slave protocol / is usupported / IEC 60870-5-101 as slave protocol / is usupported / IEC 60870-5-101 as slave protocol / is the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes for the substation as client / is supported / IEC for yes	Measuring functions	
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protocol / to the substation as client / is supported / IEC Yes		Yes
protocol / to the substation as client / is supported / IEC Yes	protocol / is supported / IEC 60870-5-101 as slave	Yes
	protocol / to the substation as client / is supported / IEC	Yes

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	Yes
IEC 62351-3	
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	
Mechanical Design width	30 mm
	30 mm 132 mm
width	
width height	132 mm
width height depth product feature / with display	132 mm 124 mm
width height depth	132 mm 124 mm No
width height depth product feature / with display fastening method / standard rail mounting	132 mm 124 mm No Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting	132 mm 124 mm No Yes No
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting	132 mm 124 mm No Yes No
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection	132 mm 124 mm No Yes No No screw-type terminals
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section	132 mm 124 mm No Yes No No screw-type terminals 0.2 2.5 mm²
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure	132 mm 124 mm No Yes No No screw-type terminals 0.2 2.5 mm² plastic
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes III 2 IP 40
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes Yes Yes
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes Yes The state of
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage relative humidity	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes Yes The state of
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage relative humidity mounting height in relation to mean sea level / maximum	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes Tes Yes Yes Yes Yes 1II 2 IP 40 -25 +70 °C -30 +85 °C 5 95 % 3 000 m
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage relative humidity mounting height in relation to mean sea level / maximum air pressure / maximum	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes Tes Yes Yes Yes Yes 1II 2 IP 40 -25 +70 °C -30 +85 °C 5 95 % 3 000 m
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage relative humidity mounting height in relation to mean sea level / maximum air pressure / maximum Approval certification	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes III 2 IP 40 -25 +70 °C -30 +85 °C 5 95 % 3 000 m 106 kPa
width height depth product feature / with display fastening method / standard rail mounting fastening method / wall mounting fastening method / rack mounting type of electrical connection connectable conductor cross-section material / of the enclosure product feature / plug-in terminal blocks product function / with function display product function / status display Degree of protection / protection class operating resource protection class degree of pollution protection class IP / on the front Environmental conditions ambient temperature / during operation ambient temperature / during storage relative humidity mounting height in relation to mean sea level / maximum air pressure / maximum Approval certification certificate of suitability / CE marking	132 mm 124 mm No Yes No No Screw-type terminals 0.2 2.5 mm² plastic Yes Yes Yes Yes Yes III 2 IP 40 -25 +70 °C -30 +85 °C 5 95 % 3 000 m 106 kPa

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





