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Data sheet 6NH7803-3BA00-0AA0

product type designation

TIM 3V-IE DNP3

TIM 3V-IE DNP3 communications module for SIMATIC S7-300 with an RS232 interface for DNP3 communication via a classic WAN and an RJ45 interface for DNP3 communication via a IP-based network (WAN or LAN).

transfer rate	
transfer rate	
● for Industrial Ethernet	10 ... 100 Mbit/s
● according to RS 232	9600 ... 38400 bit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
● for external data transmission / according to RS 232	1
● for power supply	1
type of electrical connection	
● of Industrial Ethernet interface	RJ45 port
type of electrical connection	
● at interface 1 / for external data transmission	9 pin Sub-D-connector (RS232)
● for power supply	2-pole plugable terminal block
design of the removable storage	
● C-PLUG	No
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	24 V
supply voltage	20.4 ... 28.8 V
supply voltage / external / at DC / rated value	24 V
supply voltage / external / at DC / rated value	20.4 ... 28.8 V
consumed current	
● from backplane bus / at DC / at 24 V / maximum	0.2 A
● from external supply voltage / at DC / at 24 V / maximum	0.2 A
power loss [W]	5.8 W
product extension / optional / backup battery	No
ambient conditions	
ambient temperature	
● during operation	0 ... 60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
module format	Compact module S7-300 single width
width	40 mm

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height	125 mm
depth	120 mm
net weight	0.25 kg
product features, product functions, product components / general	
number of units	
● note	Number of TIMs per S7-300: 1
wire length	
● with RS 232 interface / maximum	6 m
performance data / S7 communication	
number of possible connections / for S7 communication	
● maximum	3; only via LAN
● with PG connections / maximum	2
● with OP connections / maximum	1
service	
● PG/OP communication	Yes
performance data / telecontrol	
suitability for use	
● node station	Yes
● substation	Yes
● TIM control center	Yes
protocol / is supported	
● DNP3	Yes
● SINAUT ST1 protocol	No
● SINAUT ST7 protocol	No
● Modbus RTU	Yes
product function / data buffering if connection is aborted	Yes; 64,000 data points with one master
number of DNP3 masters	
● for Ethernet / maximum	8
● with RS 232 interface / maximum	1
number of Modbus RTU slaves / maximum	1
product functions / management, configuration, engineering	
configuration software	
● required	SINAUT ST7 ES
storage location / of TIM configuration data	on the CPU or TIM
standards, specifications, approvals	
reference code	
● according to IEC 81346-2:2019	KEC
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
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Approvals / Certificates

General Product Approval

EG-Konf.	UKCA	Declaration of Conformity	CCC	UL	RCM

EMV	For use in hazardous locations				
KC	ATEX	IECEx	FM	CCC-Ex	UL

Environment

Confirmation

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