



data concentrator COM100 accessory for: 3VA6

Model	
product brand name	SENTRON
product designation	COM100 breaker data server
accessories	Communication and measurement function
General technical data	
suitability for operation	Installation in fixed switchboard inside enclosed rooms
mounting position	any
degree of pollution	2
overvoltage category	I
operating resource protection class	III according to IEC61558
protection class IP	IP20 according to IEC60529
Voltage	
Rated control supply voltage U_s with DC / maximal	24 V
Current	
product function	
<ul style="list-style-type: none"> • electronic tripping unit power supply 	Yes
<ul style="list-style-type: none"> • detection of switch position: On, Off, Tripped 	Yes
<ul style="list-style-type: none"> • communication with function module 	Yes
<ul style="list-style-type: none"> • data exchange with the electronic tripping unit 	Yes
number of interfaces / according to Fast Ethernet	1
type of electrical connection / of the fast Ethernet interface	RJ45
design of cable / connectable / twisted pair	Yes
protocol / at the Ethernet interface / is supported	Modbus TCP
transfer rate / 2 / for Ethernet	100 Mbit/s
number of active connections / at the Ethernet interface	5
product function	
<ul style="list-style-type: none"> • at the Ethernet interface / auto-MDI(X) 	Yes
<ul style="list-style-type: none"> • at the Ethernet interface / serial gateway 	Yes
<ul style="list-style-type: none"> • at the communication interface / Modbus RTU protocol 	Yes
number of interfaces / of the circuit breaker communication system	2
number of bus termination connectors / on circuit breaker communication system	2
number of circuit breakers / directly connectable	1
total length / of the circuit breaker communication system	20 m
number of interfaces / for expansion modules	1
protocol / is supported	
<ul style="list-style-type: none"> • PROFIBUS DP protocol 	Yes
<ul style="list-style-type: none"> • PROFINET IO protocol 	Yes

power loss [W] / rated value	5 W
power loss [W] / of the circuit breaker communication interface / at maximum expansion	26.9 W
control supply voltage / at DC / rated value / maximum	24 V
relative symmetrical tolerance / of the operating range of the control feed voltage	20 %
consumed current / maximum	1.1 A

Mechanical Design

height	90 mm
width	90 mm
number of modular width units	5
depth	33.5 mm
Net Weight	208 g

Connections

type of electrical connection	removable/pluggable
type of electrical connection / at the inputs for supply voltage	screw-type terminals
connectable conductor cross-section / solid	
• minimum	0.5 mm ²
• maximum	2.5 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.5 mm ²
• maximum	1.5 mm ²
type of connectable conductor cross-sections / at the digital inputs / for AWG cables / solid	2x 20 to 14

Connections according IEC

installation depth / with expansion module / maximum	56.5 mm
installation depth / without expansion module / maximum	33.5 mm

Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during transport	
• minimum	-40 °C
• maximum	80 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C

Certificates

General Product Approval	EMV
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[Miscellaneous](#)



Test Certificates	Maritime application	other	Environment
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)



Environment

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA9977-0TA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA9977-0TA20>

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

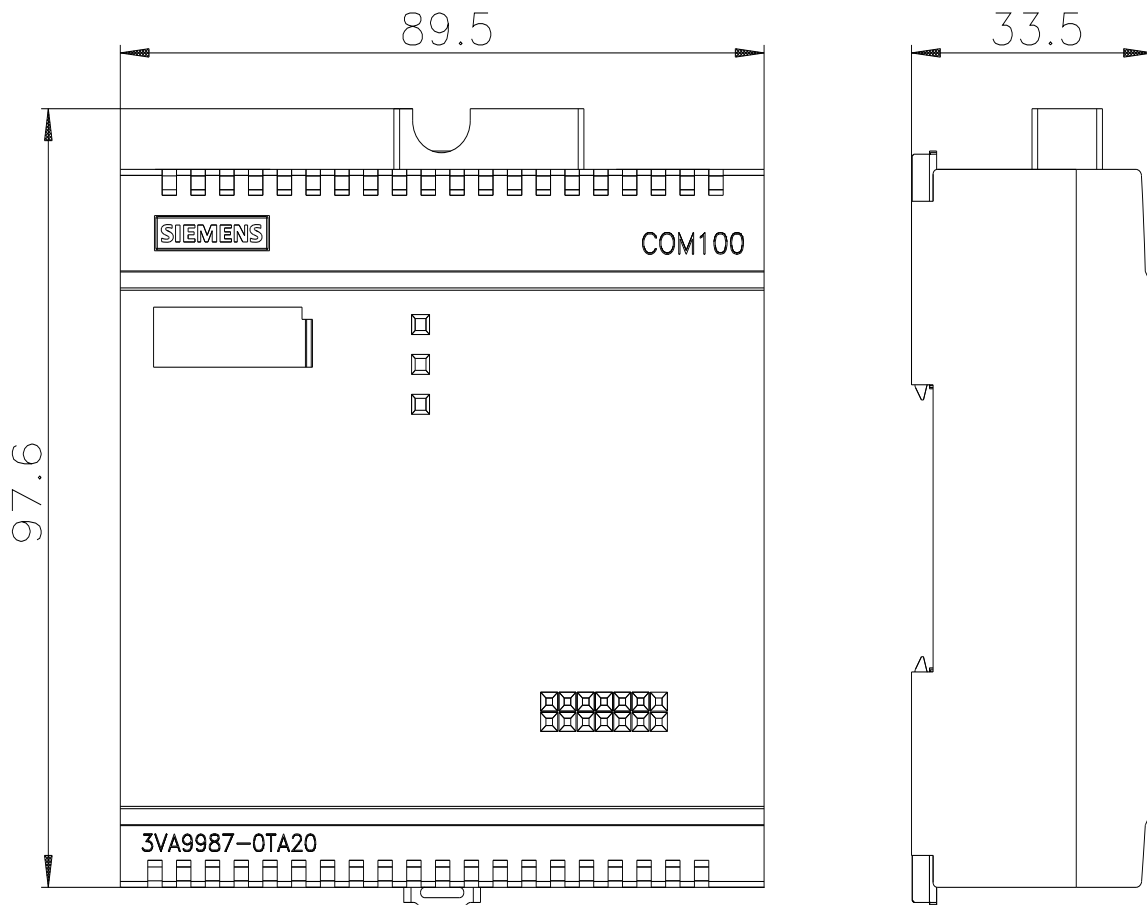
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA9977-0TA20

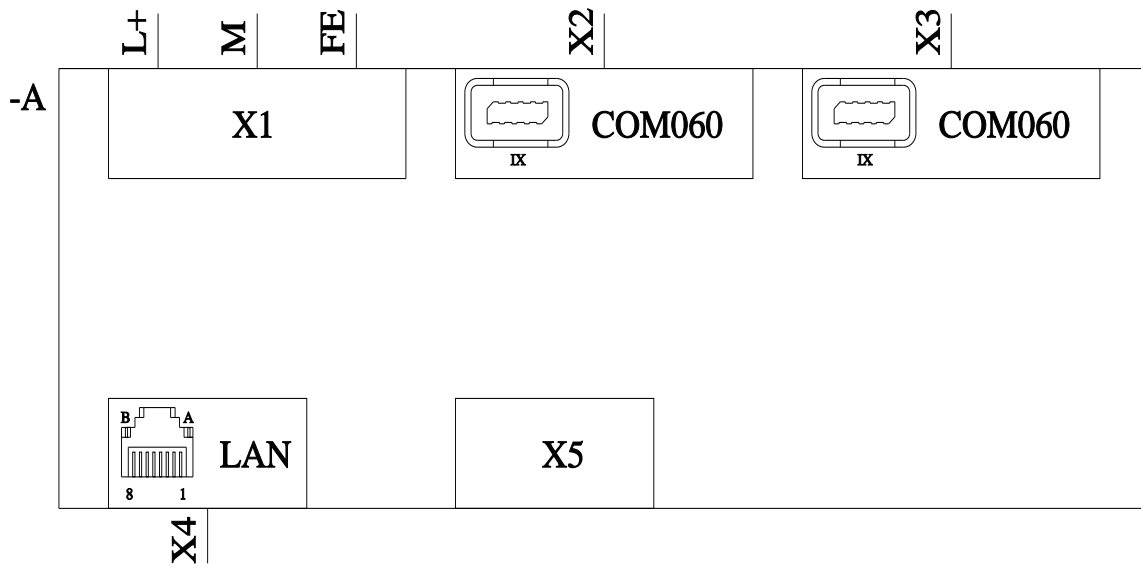
CAX-Online-Generator

<https://www.siemens.com/cax>

Tender specifications

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





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