

Data sheet

VIPA Commander Compact CC 03 (603-1CC23)

Technical data

Order no.	603-1CC23
Туре	VIPA Commander Compact CC 03
General information	
Note	
Features	Display: 2 x 20 characters Interface: MP²I User memory: 128 KB Languages: DE, EN, FR, ES, IT, SV, NO, DA Project engineering via VIPA OP-Manager or Siemens ProTool Integrated PLC-CPU: 32/40 KB work/load memory 16x DI, 16x DO Up to 4 I/O expansion modules
Display	
Number of rows	2
Characters per row	20
Character height	5 mm
Type of display	STN with LED backlighting
OP functionality	
User memory	128 KB
Number of variables	4096
Language	DE/EN/FR/ES/IT/SV/NO/DA
Operating controls	
Touchscreen	-
Mouse	-
Number of system keys	8
Number of soft keys	5
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	130 mA
Current consumption (rated value)	1 A
Inrush current	60 A
l²t	0.35 A²s
Max. current drain at backplane bus	0.8 A
Max. current drain load supply	
Power loss	8 W
Reverse polarity protection	yes
Technical data digital inputs	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V

Reverse polarity protection of rated load voltage	yes
Current consumption from load voltage L+ (without load)	-
Rated value	DC 24 V
Input voltage for signal "0"	DC 05 V
Input voltage for signal "1"	DC 1528.8 V
Signal logic input	-
Input current for signal "1"	7 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	3 ms
Input delay of "1" to "0"	3 ms
Input characteristic curve	IEC 61131-2, type 1
Initial data size	2 Byte
Technical data digital outputs	
Number of outputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	
Current consumption from load voltage L+ (without load)	50 mA
Total current per group, horizontal configuration, 40°C	4 A
Total current per group, horizontal configuration, 60°C	4 A
Total current per group, vertical configuration	4 A
Output voltage signal "1" at min. current	L+ (-125 mV)
Output voltage signal "1" at max. current	L+ (-0.8 V)
Output current at signal "1", rated value	0.5 A
Output delay of "0" to "1"	max. 100 µs
Output delay of "1" to "0"	max. 350 µs
Minimum load current	-
Lamp load	5 W
Switching frequency with resistive load	max. 1000 Hz
Switching frequency with inductive load	max. 0.5 Hz
Switching frequency on lamp load	max. 10 Hz
Internal limitation of inductive shut-off voltage	L+ (-52 V)
Short-circuit protection of output	yes, electronic
Trigger level	1 A
Output data size	2 Byte
Technical data counters	
Number of counters	-
Counter width	-
Maximum input frequency	-
Maximum count frequency	-
Mode incremental encoder	-
Mode pulse / direction	-
Mode pulse	-
Mode frequency counter	-
Mode period measurement	-
Gate input available	-

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yes
no
yes
yes
no
possible
green LED
red SF LED
red LED per group
8
yes
DC 500 V
40 KB
40 KB
32 KB
32 KB
-
MMC-Card with max. 512 MB
1
4
0
4
4
4
-
-
yes
yes
yes no
yes no yes
yes no yes yes
yes no yes yes no
yes no yes yes no possible
yes no yes yes no possible green LED
yes no yes yes yes no possible green LED red SF LED
yes no yes yes yes no possible green LED red SF LED red LED per group
yes no yes yes no possible green LED red SF LED red LED per group
yes no yes yes yes no possible green LED red SF LED red LED per group



Floating-point arithmetic, min.	50 μs			
Timers/Counters and their retentive characteristics				
Number of S7 counters	256			
S7 counter remanence	adjustable 0 up to 64			
S7 counter remanence adjustable	C0 C7			
Number of S7 times	256			
S7 times remanence	adjustable 0 up to 128			
S7 times remanence adjustable	not retentive			
Data range and retentive characteristic				
Number of flags	8192 Bit			
Bit memories retentive characteristic adjustable	adjustable 0 up to 256			
Bit memories retentive characteristic preset	MB0 MB15			
Number of data blocks	2047			
Max. data blocks size	16 KB			
Number range DBs	1 2047			
Max. local data size per execution level	1024 Byte			
Max. local data size per block	1024 Byte			
Blocks				
Number of OBs	14			
Maximum OB size	16 KB			
Total number DBs, FBs, FCs	-			
Number of FBs	1024			
Maximum FB size	16 KB			
Number range FBs	0 1023			
Number of FCs	1024			
Maximum FC size	16 KB			
Number range FCs	0 1023			
Maximum nesting depth per priority class	8			
Maximum nesting depth additional within an error OB	4			
Time				
Real-time clock buffered	yes			
Clock buffered period (min.)	30 d			
Type of buffering	Vanadium Rechargeable Lithium Battery			
Load time for 50% buffering period	20 h			
Load time for 100% buffering period	48 h			
Accuracy (max. deviation per day)	10 s			
Number of operating hours counter	8			
Clock synchronization	-			
Synchronization via MPI	no			
Synchronization via Ethernet (NTP)	no			
Address areas (I/O)				
Input I/O address area	1024 Bit			
Output I/O address area	1024 Bit			
Process image adjustable				
Input process image preset	128 Byte			
Output process image preset	128 Byte			
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5V DC Power supply - 24V DC Power supply - Functionality MPI Number of connections, max. 16 PG/OP channel yes Routing - Global data communication yes S7 basic communication yes S7 communication yes S7 communication as server yes S7 communication as client - Transmission speed, min. 19.2 k	
Functionality MPI Number of connections, max. 16 PG/OP channel yes Routing - Global data communication yes \$7 basic communication yes \$7 communication yes \$7 communication as server yes \$7 communication as client -	
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Routing - Global data communication yes S7 basic communication yes S7 communication yes S7 communication yes S7 communication as server yes S7 communication as client -	
Global data communication yes S7 basic communication yes S7 communication yes S7 communication as server yes S7 communication as client -	
S7 basic communication yes S7 communication yes S7 communication as server yes S7 communication as client -	
S7 communication yes S7 communication as server yes S7 communication as client -	
S7 communication as server yes S7 communication as client -	
S7 communication as client -	
Transmission speed, min. 19.2 k	
Transmission speed, max. 187.5	kbit/s
Functionality PROFIBUS slave	
Number of connections, max.	
PG/OP channel -	
Routing -	
S7 communication -	
S7 communication as server -	
S7 communication as client -	
Direct data exchange (slave-to-slave communication) -	
DPV1 -	
Transmission speed, min.	
Transmission speed, max.	
Automatic detection of transmission speed -	
Transfer memory inputs, max.	
Transfer memory outputs, max.	
Address areas, max.	
User data per address area, max.	
Mechanical data	
Housing / Protection class	
	st aluminum
Mounting via int	egrated pivoted lever
Protection class IP front side IP 65	
Protection class IP back side IP 20	
Protection class NEMA front side -	
Protection class NEMA back side -	
Dimensions	
Front panel 187 m	m x 90 mm x 6 mm
'	m x 77 mm x 55 mm
Installation cut-out	
Width 156 m	
Height 78 mm	
Minimum 2.5 mi	n
Maximum front panel thickness 6 mm	



Net weight	580 g	
Weight including accessories	-	
Gross weight	-	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-20 °C to 70 °C	
Certifications		
UL certification	yes	
KC certification	-	