

Data sheet CPU 313SC/DPM (313-6CF13)

Technical data

Order no.	313-6CF13
Туре	CPU 313SC/DPM
Canavalinformation	
General information	
Note	-
Features	SPEED7 technology 16 x DI, 16 x DO 128 kB work memory Memory extension (max 512 kB) PROFIBUS-DP master / PtP (switchable) Also configurable via TIA-Portal
SPEED-Bus	
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	1
Current consumption (no-load operation)	200 mA
Current consumption (rated value)	900 mA
Inrush current	11 A
²t	0.7 A²s
Max. current drain at backplane bus	3 A
Power loss	14 W
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	1
Current consumption from load voltage L+ (without load)	70 mA
Rated value	DC 24 V
Input voltage for signal "0"	DC 05 V
Input voltage for signal "1"	DC 1528.8 V
Input voltage hysteresis	-
Frequency range	-
Input resistance	-
Input current for signal "1"	6 mA
Connection of Two-Wire-BEROs possible	2
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	0.1 / 0.35 ms
Input delay of "1" to "0"	0.1 / 0.35 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16



Input characteristic curve	IEC 61131-2, type 1	A YASKAWA COMPANY
Initial data size	2 Byte	
Technical data disital autoute		
Technical data digital outputs	40	
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)	100 mA	
Total current per group, horizontal configuration, 40°C	3 A	
Total current per group, horizontal configuration, 60°C	2 A	
Total current per group, vertical configuration	2 A	
Output voltage signal "1" at min. current	L+ (-0.8 V)	
Output voltage signal "1" at max. current	L+ (-0.8 V)	
Output current at signal "1", rated value	0.5 A	
Output current, permitted range to 40°C	5 mA to 0.6 A	
Output current, permitted range to 60°C	5 mA to 0.6 A	
Output current at signal "0" max. (residual current)	0.5 mA	
Output delay of "0" to "1"	100 <i>µ</i> s	
Output delay of "1" to "0"	100 <i>µ</i> s	
Minimum load current	-	
Lamp load	5 W	
Parallel switching of outputs for redundant control of a load	possible	
Parallel switching of outputs for increased power	not possible	
Actuation of digital input	s.	
Switching frequency with resistive load	max. 2.5 kHz	
Switching frequency with inductive load	max. 0.5 Hz	
Switching frequency on lamp load	max. 2.5 kHz	
Internal limitation of inductive shut-off voltage	L+ (-52 V)	
Short-circuit protection of output	yes, electronic	
Trigger level	1 A	
Number of operating cycle of relay outputs	-	
Switching capacity of contacts	-	
Output data size	2 Byte	
Technical data analog inputs		
Number of inputs	-	
Cable length, shielded	-	
Rated load voltage	-	
Reverse polarity protection of rated load voltage	-	
Current consumption from load voltage L+ (without load)		
Voltage inputs		
Min. input resistance (voltage range)	-	
Input voltage ranges	-	
Operational limit of voltage ranges	-	
Operational limit of voltage ranges with SFU	-	
Basic error limit voltage ranges	-	
Basic error limit voltage ranges with SFU	-	



		A YASKAWA COMPANY
Destruction limit current	-	
Current inputs	-	
Max. input resistance (current range)	-	
Input current ranges	-	
Operational limit of current ranges	-	
Operational limit of current ranges with SFU	-	
Basic error limit current ranges	-	
Radical error limit current ranges with SFU	-	
Destruction limit current inputs (electrical current)	-	
Destruction limit current inputs (voltage)	-	
Resistance inputs	-	
Resistance ranges	-	
Operational limit of resistor ranges	-	
Operational limit of resistor ranges with SFU	-	
Basic error limit	-	
Basic error limit with SFU	-	
Destruction limit resistance inputs	-	
Resistance thermometer inputs	-	
Resistance thermometer ranges	-	
Operational limit of resistance thermometer ranges	-	
Operational limit of resistance thermometer ranges with SFU	-	
Basic error limit thermoresistor ranges	-	
Basic error limit thermoresistor ranges with SFU	-	
Destruction limit resistance thermometer inputs	-	
Thermocouple inputs	-	
Thermocouple ranges	-	
Operational limit of thermocouple ranges	-	
Operational limit of thermocouple ranges with SFU	-	
Basic error limit thermoelement ranges	-	
Basic error limit thermoelement ranges with SFU	-	
Destruction limit thermocouple inputs	-	
Programmable temperature compensation	-	
External temperature compensation	-	
Internal temperature compensation	-	
Technical unit of temperature measurement	-	
Resolution in bit	-	
Measurement principle	-	
Basic conversion time	-	
Noise suppression for frequency	-	
Initial data size		
Technical data analog outputs		
Number of outputs	-	
Cable length, shielded	-	
Rated load voltage	-	
Reverse polarity protection of rated load voltage	-	
Current consumption from load voltage L+ (without load)	-	
Voltage output short-circuit protection	-	
Voltage outputs	-	



Min. load resistance (voltage range)		A YASKAWA COMPANY
Max. capacitive load (current range)		
Max. inductive load (current range)		
Output voltage ranges		
Operational limit of voltage ranges	_	
Basic error limit voltage ranges with SFU		
Destruction limit against external applied voltage		
Current outputs	-	
Max. in load resistance (current range)	-	
Max. inductive load (current range)	-	
Max. inductive load (current range)	-	
Output current ranges	-	
Operational limit of current ranges	-	
Radical error limit current ranges with SFU	-	
Destruction limit against external applied voltage	-	
Settling time for ohmic load		
Settling time for capacitive load		
Settling time for inductive load	-	
Resolution in bit	-	
Conversion time	-	
Substitute value can be applied	-	
Output data size	-	
Technical data counters		
Number of counters	3	
Counter width	32 Bit	
Maximum input frequency	30 kHz	
Maximum count frequency	30 kHz	
Mode incremental encoder	v	
Mode pulse / direction	1	
Mode pulse	<	
Mode frequency counter	✓	
Mode period measurement	✓	
Gate input available	1	
Latch input available	1	
Reset input available	-	
Counter output available	1	
Load and working memory		
Load memory, integrated	512 KB	
Load memory, maximum	512 KB	
Work memory, integrated	128 KB	
Work memory, maximal	512 KB	
Memory divided in 50% program / 50% data	1	
Memory card slot	MMC-Card with max. 1 GB	

Hardware configuration



Poska mov	A YASKAWA COMPAN
Racks, max.	7
Modules per rack, max.	8
Number of integrated DP master Number of DP master via CP	
	4
Operable function modules	8
Operable communication modules PtP	8
Operable communication modules LAN	8
Status information, alarms, diagnostics	
Status display	yes
Interrupts	yes
Process alarm	yes
Diagnostic interrupt	yes
Diagnostic functions	no
Diagnostics information read-out	possible
Supply voltage display	green LED
Group error display	red SF LED
Channel error display	red LED per group
Command processing times	
Bit instructions, min.	0.02 µs
Word instruction, min.	0.02 µs
Double integer arithmetic, min.	0.02 µs
Floating-point arithmetic, min.	0.12 µs
Timers/Counters and their retentive characteri	stics 512
Number of S7 times	512
Data range and retentive characteristic	
Number of flags	8192 Byte
Number of data blocks	4095
Max. data blocks size	64 KB
Max. local data size per execution level	510 Byte
Blocks	
Number of OBs	15
Number of FBs	2048
Number of FCs	2048
Maximum nesting depth per priority class	8
Maximum nesting depth additional within an error OB	4
Time	
Real-time clock buffered	2
Clock buffered period (min.)	6 w
Accuracy (max. deviation per day)	10 s
Number of operating hours counter	8
Clock synchronization	1
Synchronization via MPI	Master/Slave

[©] by VIPA GmbH, Ohmstr. 4, 91074 Herzogenaurach, Germany All data with reservation and subject to change. Publish date: 19.09.2014



Synchronization via Ethernet (NTP)

no

Input I/O address area1024 ByteOutput I/O address area1024 ByteDutput process image maximal128 ByteOldutput process image maximal128 ByteDigital notputs8064Digital notputs8064Digital notputs8064Digital notputs central1008Integrated digital notputs16Integrated digital notputs603Analog unputs603Analog unputs603Analog unputs0Integrated digital notputs0Integrated digital notputs0Communication functions9PGIOP channelImage and	Address areas (I/O)	
Input process image maximal 128 Byte Output process image maximal 128 Byte Digital inputs 6064 Digital inputs 6064 Digital inputs 1008 Digital inputs central 1008 Digital inputs 16 Integrated digital inputs 16 Analog inputs 503 Analog outputs 503 Analog outputs 604 Madio gutputs 604 Integrated digital inputs 16 Analog outputs 503 Analog outputs 603 Analog outputs 604 Digital extreme 248 Integrated analog outputs 0 Communication functions 0 PGOP channel ✔ Global data communication ✔ Store GD potexts, max. 22 Byte S7 basic communication ✔ S7 communication as server ✔ S7 communication as server ✓ S7 communication as server 3 PWM channels 3	Input I/O address area	1024 Byte
Output process image maximal 128 Byte Digital inputs 8064 Digital outputs 8064 Digital outputs central 1008 Digital outputs central 1008 Digital outputs central 1008 Digital outputs central 16 Analog inputs 503 Analog inputs 503 Analog outputs 503 Analog outputs 0 Integrated analog outputs 0 Communication functions 0 PG/OP channel Image and analog outputs Of Obal data communication Image and analog Number of OD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication Image and analog S7 communication as server Image and analog outputs S7 communication as server S2 PWM data 160 Byte PWM data - PWM data - PP communication - Process - Type X2 Type X2 PYM data - PHO domination - PHO domination - PHO domination - PHO dominetasio	Output I/O address area	1024 Byte
Digital inputs8064Digital inputs central1008Digital inputs central1008Integrated digital inputs16Integrated digital outputs16Analog inputs503Analog inputs503Analog outputs, central248Analog outputs, central0Integrated analog inputs0Communication functions0PG/OP channelImage and	Input process image maximal	128 Byte
Digital outputs 8064 Digital outputs central 1008 Integrated digital outputs 16 Integrated digital outputs 16 Analog inputs 503 Analog inputs, central 248 Analog outputs, central 248 Integrated digital outputs 0 Integrated digital outputs 0 Integrated analog inputs 0 Analog outputs, central 248 Analog outputs, central 248 Integrated analog outputs 0 Communication functions 0 PG/OP channel Image: Central digital digital central digital central digital central digital central dig	Output process image maximal	128 Byte
Digital inputs central 1008 Digital outputs central 1008 Integrated digital inputs 16 Integrated digital outputs 16 Analog inputs 503 Analog inputs 503 Analog inputs 503 Analog outputs 503 Analog outputs 503 Analog outputs 0 Integrated analog inputs 0 Integrated analog outputs 0 Communication functions Integrated analog PG/OP channel Image and analog outputs Global data communication Image analog Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication Image analog S7 communic	Digital inputs	8064
Digital outputs central 1008 Integrated digital inputs 16 Integrated digital outputs 16 Analog inputs 503 Analog inputs 503 Analog outputs 503 Analog outputs 503 Analog outputs 0 Integrated analog inputs 0 Integrated analog outputs 0 Communication functions Integrated analog outputs PG/OP channel Image and analog outputs Size of GD packets, max. 2 Size of GD packets, max. 22 Byte Size of GD packets, max. 3 Size of GD packets, max. 32 PWM data - PWM data - PWM data - PWM data - PPP communic	Digital outputs	8064
Integrated digital inputs 16 Integrated digital outputs 503 Analog inputs 503 Analog outputs, central 248 Analog outputs, central 248 Integrated analog outputs 0 Integrated analog outputs 0 Communication functions PG/OP channel Global data communication Number of GD circuits, max. 4 Size of GD packets, max. 22 Byle S7 basic communication S7 basic communication S7 basic communication S7 com	Digital inputs central	1008
Integrated digital outputs 16 Analog inputs 503 Analog outputs 503 Analog outputs, central 248 Analog outputs, central 248 Integrated analog inputs 0 Integrated analog outputs 0 Communication functions PG/OP channel Giobal data communication Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication S7 basic communication S7 communication S7 communication S7 communication as server S7 communication as client - S7 communication as client - S7 communication as client - S7 communication as a client - S7 communication as client - S7 communication as a client - S7 communication - S1 connections, max. 32 PWM data PWM data PWM data PWM time basis - Period length - Minimum pulse width - PIP communication - Functionality Sub-D Interfaces Type X2 Type X2 Type N2 P4 (MPURBS22) - -	Digital outputs central	1008
Analog inputs 503 Analog outputs 503 Analog outputs, central 248 Analog outputs, central 248 Integrated analog inputs 0 Integrated analog outputs 0 Communication functions 0 PG/OP channel Image: Communication functions Global data communication Image: Communication Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication Image: Communication S7 basic communication Image: Communication S7 communication as server Image: Communication, user data per job S7 communication, user data per job 160 Byte Number of connections, max. 32 PWM data PWM data PWM data Image: Communication PWM dianels 3 PVM time basis - Per communication - Pipe onmunication <td>Integrated digital inputs</td> <td>16</td>	Integrated digital inputs	16
Analog outputs 503 Analog inputs, central 248 Analog outputs, central 0 Integrated analog outputs 0 Integrated analog outputs 0 Communication functions 0 PG/OP channel • Global data communication • Number of CD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication • S7 basic communication • S7 communication user data per job 160 Byte Number of connections, max. 32 PWM data • PWM data • PWM time basis • PHe communication • Fib connunication • PH communication • PWM data • PWM time basis • PHe communication • PHP communicatio	Integrated digital outputs	16
Analog inputs, central248Analog outputs, central248Integrated analog outputs0Integrated analog outputs0Communication functionsPG/OP channelImage: CommunicationGlobal data communicationImage: CommunicationNumber of GD circuits, max.4Size of GD packets, max.22 ByteS7 basic communicationImage: CommunicationS7 communicationImage: CommunicationS7 communicationImage: CommunicationS7 communicationImage: CommunicationS7 communication as client-S7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM data-PWM data-PWM data-Priod length-Priod length-Minimum pulse width-PIP communication-Functionality Sub-D InterfacesType of Sub-D, 9-pin, femaleElectrically isolated-MPIImage: CommunicationPIP (MPI/RS232)-	Analog inputs	503
Analog outputs, central 248 Integrated analog inputs 0 Integrated analog outputs 0 Communication functions PG/OP channel Global data communication • Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication • S7 basic communication • S7 communication server • S7 communication sectiont - S7 communication user data per job 160 Byte Number of connections, max. 32 PWM data - PWM data - PWM data - Pil communication - Functionality Sub-D interfaces - Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI • MPI •	Analog outputs	503
Integrated analog inputs 0 Integrated analog outputs 0 Communication functions Image: Communication PG/OP channel Image: Communication Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication Image: Communication S7 basic communication Image: Communication S7 communication Image: Communication S7 communication as server Image: Communication as server S7 communication, user data per job 76 Byte S7 communication, user data per job 160 Byte Number of connections, max. 32 PWM data - PWM data - PWM time basis - PHC communication - PHP communication - PHP communication - PHP communication - Ptype X2 Type X2 Type of interfaces RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI MPI	Analog inputs, central	248
Integrated analog outputs 0 Communication functions Image: Communication functions PG/OP channel Image: Communication Number of GD circuits, max. 4 Size of GD packets, max. 22 Byte S7 basic communication Image: Communication S7 basic communication, user data per job 76 Byte S7 communication as enver Image: Communication as enver S7 communication as client - S7 communication, user data per job 160 Byte S7 communication as client - S7 communication, user data per job 160 Byte Number of connections, max. 32 PWM data - PWM the basis - PWM the basis - Pictolength - Minimum pulse width - PIP communication - Pipe of interfaces RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI Implemented MPI -	Analog outputs, central	248
Communication functions PG/OP channel Global data communication Number of GD circuits, max. Size of GD packets, max. Size of GD packets, max. S7 basic communication S7 basic communication S7 communication S7 communication S7 communication as server S7 communication as server S7 communication as client S7 communication, user data per job S7 communication as client S7 communication, user data per job S8 connections, max. S2 PWM data PWM data PWM dime basis PR communication S7 PHO communication S1 PWM time basis - PP communication - PP communication - PP communication - Proto length - PP communication - PP communication - Protof length - <td>Integrated analog inputs</td> <td>0</td>	Integrated analog inputs	0
PG/OP channelImage: Constant of Constant	Integrated analog outputs	0
PG/OP channelImage: Constant of Constant	Communication functions	
Number of GD circuits, max.4Size of GD packets, max.22 ByteS7 basic communicationImage: S7 ByteS7 basic communication, user data per job76 ByteS7 communicationImage: S7 Communication as serverS7 communication as serverImage: S7 Communication as clientS7 communication, user data per job160 ByteS7 communication, user data per job160 ByteS7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPWM data-PWM data-PWM time basis-Period length-Minimum pulse width-PIP communication-Functionality Sub-D interfacesX2TypeX2ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIImage: Simple Sim		۷
Size of GD packets, max.22 ByteS7 basic communication✓S7 basic communication, user data per job76 ByteS7 communication✓S7 communication as server✓S7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPI✓MP21 (MPI/RS232)-	Global data communication	2021
Size of GD packets, max. 22 Byte S7 basic communication ✓ S7 basic communication, user data per job 76 Byte S7 communication ✓ S7 communication as server ✓ S7 communication as client - S7 communication, user data per job 160 Byte S7 communication, user data per job 160 Byte Number of connections, max. 32 PWM data	Number of GD circuits, max.	4
S7 basic communication ✓ S7 basic communication, user data per job 76 Byte S7 communication ✓ S7 communication as server ✓ S7 communication as client - S7 communication, user data per job 160 Byte S7 communication, user data per job 160 Byte Number of connections, max. 32 PWM data PWM channels 3 Period length - Minimum pulse width - PtP communication - Functionality Sub-D interfaces X2 Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI ✓ MP21 (MPI/RS232) -		22 Byte
S7 basic communication, user data per job76 ByteS7 communicationImage: S7 communication as serverS7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPWM dataPWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D InterfacesX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIImage: M(MPI/RS232)APPI (MPI/RS232)-		
S7 communicationImage: serverS7 communication as serverImage: serverS7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MP1Image: serverMP21 (MPI/RS232)-	SZ basic communication user data per job	77
S7 communication as server✓S7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPVWA channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPI✓MPI (MPI/RS232)-		
S7 communication as client-S7 communication, user data per job160 ByteNumber of connections, max.32PWM data-PWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MP1Implied (MPI/RS232)Amount of the probability	S7 communication as server	
S7 communication, user data per job160 ByteNumber of connections, max.32PWM dataPWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesType of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIMP2I (MPI/RS232)-	S7 communication as client	
Number of connections, max.32PWM dataPWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MP2I (MPI/RS232)-		160 Byte
PWM data PWM channels 3 PWM time basis - Period length - Minimum pulse width - PtP communication - Functionality Sub-D interfaces - Type X2 Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI ✓ MP²l (MPI/RS232) -		
PWM channels3PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPI✓MP2I (MPI/RS232)-		
PWM time basis-Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIMPI (MPI/RS232)-	PWM data	
Period length-Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPI✓MP2 (MPI/RS232)-	PWM channels	3
Minimum pulse width-PtP communication-Functionality Sub-D interfacesTypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIMP2I (MPI/RS232)-	PWM time basis	-
PtP communication - Functionality Sub-D interfaces Type X2 Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI ✓ MPI (MPI/RS232) -	Period length	-
Functionality Sub-D interfaces Type X2 Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI MPI (MPI/RS232) -	Minimum pulse width	-
TypeX2Type of interfaceRS485ConnectorSub-D, 9-pin, femaleElectrically isolated-MPIMP21 (MPI/RS232)-	PtP communication	-
Type of interface RS485 Connector Sub-D, 9-pin, female Electrically isolated - MPI MP2I (MPI/RS232) -	Functionality Sub-D interfaces	
Sub-D, 9-pin, female Electrically isolated - MPI MP²I (MPI/RS232) -	Туре	X2
Electrically isolated - MPI MP2I (MPI/RS232) -	Type of interface	RS485
MPI Implementation MP2I (MPI/RS232) -	Connector	Sub-D, 9-pin, female
MP²I (MPI/RS232) -	Electrically isolated	-
	MPI	1
DP master -	MP²I (MPI/RS232)	-
	DP master	-



DP slave Point-to-point interface

Туре	X3
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Electrically isolated	v
MPI	
MP²l (MPI/RS232)	-
DP master	yes
DP slave	yes
Point-to-point interface	✓
Functionality MPI	
Number of connections, max.	32
PG/OP channel	v
Routing	<u>ي</u>
Global data communication	<u>ي</u>
S7 basic communication	✓
S7 communication	✓
S7 communication as server	✓
S7 communication as client	-
Transmission speed, min.	19.2 kbit/s
Transmission speed, max.	187.5 kbit/s
Functionality PROFIBUS master	
PG/OP channel	✓
Routing	<u>ي</u>
S7 basic communication	<u>ي</u>
S7 communication	<u>ي</u>
S7 communication as server	✓
S7 communication as client	-
Activation/deactivation of DP slaves	✓
Direct data exchange (slave-to-slave communication)	-
DPV1	✓
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Number of DP slaves, max.	32
Address range inputs, max.	1 KB
Address range outputs, max.	1 KB
User data inputs per slave, max.	244 Byte
User data outputs per slave, max.	244 Byte
Functionality PROFIBUS slave	
PG/OP channel	٧

_

-



Routing	V A YASKAWA COMPANY
S7 communication	1
S7 communication as server	1
S7 communication as client	-
Direct data exchange (slave-to-slave communication)	
DPV1	1
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Automatic detection of transmission speed	
Transfer memory inputs, max.	244 Byte
Transfer memory outputs, max.	244 Byte
Address areas, max.	32
User data per address area, max.	32 Byte
Point-to-point communication	
PtP communication	A
Interface isolated	×
RS232 interface	-
RS422 interface	-
RS485 interface	A
Connector	Sub-D, 9-pin, female
Transmission speed, min.	150 bit/s
Transmission speed, max.	115.5 kbit/s
Cable length, max.	500 m
Point-to-point protocol	
ASCII protocol	1
STX/ETX protocol	1
3964(R) protocol	1
RK512 protocol	
USS master protocol	1
Modbus master protocol	1
Modbus slave protocol	
Special protocols	•
Functionality RJ45 interfaces	
Туре	Х5
Type of interface	Ethernet 10/100 MBit
Connector	RJ45
Electrically isolated	✓
PG/OP channel	✓
Number of connections, max.	4
Productive connections	
Housing	
Material	PPE

[©] by VIPA GmbH, Ohmstr. 4, 91074 Herzogenaurach, Germany All data with reservation and subject to change. Publish date: 19.09.2014



Mounting	Rail System 300	A YASKAWA COMPANY
Mechanical data		
Dimensions (WxHxD)	80 mm x 125 mm x 120 mr	n
Weight	420 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL508 certification	yes	