

Overview



- PROFIBUS DP master or slave with electrical interface for connecting the SIMATIC S7-300 to PROFIBUS at up to 12 Mbit/s (including 45.45 kbit)
- Communication services:
 - PROFIBUS DP
 - PG/OP communication (OP multiplexing)
 - S7 communication (client, server)
 - Open communication (SEND/RECEIVE)
- Easy configuration and programming over PROFIBUS
- Cross-network programming device communication through S7 routing
- Modules can be replaced without the need for a PG

DP-M	DP-S	FMS	PG/OP	S7/S5	
●	●		●	●	

Technical specifications

Article number	6GK7342-5DA03-0XE0
Product type designation	CP 342-5
Transmission rate	
Transfer rate	
• at the 1st interface acc. to PROFIBUS	9.6 kbit/s ... 12 Mbit/s
Interfaces	
Number of interfaces acc. to Industrial Ethernet	0
Number of electrical connections	
• at the 1st interface acc. to PROFIBUS	1
• for power supply	1
Type of electrical connection	
• at the 1st interface acc. to PROFIBUS	9-pin Sub-D socket (RS485)
• for power supply	4-pole terminal block
Supply voltage, current consumption, power loss	
Type of voltage of the supply voltage	DC
Supply voltage 1 from backplane bus	5 V
Supply voltage external	24 V
Relative positive tolerance for DC at 24 V	20 %
Relative negative tolerance for DC at 24 V	15 %
Consumed current	
• from backplane bus for DC at 5 V typical	0.15 A
• from external supply voltage for DC at 24 V typical	0.25 A
Active power loss	6.75 W

Article number	6GK7342-5DA03-0XE0
Product type designation	CP 342-5
Permitted 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 weight	
Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.3 kg
Product properties, functions, components general	
Number of units	
• per CPU maximum	4
Performance data open communication	
Number of possible connections for open communication by means of SEND/RECEIVE blocks	
• maximum	16
Amount of data	
• as user data per connection for open communication by means of SEND/RECEIVE blocks maximum	240 byte

SIMATIC S7-300 advanced controller

I/O modules

Communication

CP 342-5

Technical specifications (continued)

Article number	6GK7342-5DA03-0XE0
Product type designation	CP 342-5
Performance data PROFIBUS DP	
Service as DP master	Yes
• DPV0	
Number of DP slaves on DP master usable	124
Amount of data	
• of the address area of the inputs as DP master total	2 160 byte
• of the address area of the outputs as DP master total	2 160 byte
• of the address area of the inputs per DP slave	244 byte
• of the address area of the outputs per DP slave	244 byte
• of the address area of the diagnostic data per DP slave	240 byte
Service as DP slave	Yes
• DPV0	
Amount of data	
• of the address area of the inputs as DP slave total	240 byte
• of the address area of the outputs as DP slave total	240 byte

Article number	6GK7342-5DA03-0XE0
Product type designation	CP 342-5
Performance data S7 communication	
Number of possible connections for S7 communication	
• maximum	16
Performance data multi-protocol mode	
Number of active connections with multi-protocol mode	
• without DP maximum	32
• with DP maximum	28
Performance data telecontrol	
Protocol is supported	
• TCP/IP	No
Product functions management, configuration	
Configuration software	
• required	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Ordering data**Article No.****Article No.****CP 342-5 communications processor**

Communications processor for electrical connection of SIMATIC S7-300 to PROFIBUS at up to 12 Mbit/s, with electronic manual on CD-ROM

6GK7342-5DA03-0XE0**Accessories****PROFIBUS FastConnect connection plug RS 485**

With 90° cable outlet; insulation displacement technology, max. transmission rate 12 Mbit/s

- Without PG interface
- With PG interface

6ES7972-0BA52-0XA0
6ES7972-0BB52-0XA0

PROFIBUS bus connector IP20

With connection to PPI, MPI, PROFIBUS

- Without PG interface
- With PG interface

6ES7972-0BA12-0XA0
6ES7972-0BB12-0XA0

PROFIBUS FC Standard Cable

2-core bus cable, shielded, special design for fast mounting, delivery unit: max. 1000 m, minimum order 20 m, sold by the meter

6XV1830-0EH10**PROFIBUS bus terminal 12M**

Bus terminal for connection of PROFIBUS nodes up to 12 Mbps with connecting cable

6GK1500-0AA10**SIMATIC S7-300 DM 370**

Dummy module; used for module replacement

6ES7370-0AA01-0AA0Note:

You can find order information for software for communication with PC systems in Catalog IK PI.