SIEMENS

Data sheet

6ES7155-5BA00-0AB0



SIMATIC ET 200MP. PROFIBUS connection IM 155-5 DP ST for max. 12 S7-1500 modules Including PROFIBUS connection plug (6ES7972-0BB70-0XA0)



General information	
Product type designation	IM 155-5 DP ST
HW functional status	From FS01
Firmware version	V2.0.0
FW update possible	Yes
Vendor identification (VendorID)	81AAh
Product function	
• I&M data	Yes; I&M0 to I&M3
 Module swapping during operation (hot swapping) 	No
• Isochronous mode	No
Tool changer	No
Local coupling, IO data	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13
 STEP 7 configurable/integrated from version 	use GSD file
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
Configuration control	
via dataset	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption (rated value)	0.2 A; at 24 V DC and without load
Current consumption, max.	1.2 A; at 20.4 V DC and max. load
Inrush current, max.	4 A
l²t	0.09 A²·s
from interface 5 V DC, max.	80 mA
Power	
Infeed power to the backplane bus	14 W
Power loss	
Power loss, typ.	4 W
Address area	

Address space per module	
Address space per module, max.	64 byte; For input and output data respectively
Address space per station	
Address space per station, max.	244 byte; For input and output data respectively
Hardware configuration	
Integrated power supply	Yes; 14 W
System power supply can be plugged in to left of IM	No
Number of permissible power segments	1; incl. interface module
Rack	
Modules per rack, max.	12; I/O modules
Interfaces	
Number of PROFIBUS interfaces	1; 1 port
1. Interface	
Interface types	
• RS 485	Yes
 Number of ports 	1
• integrated switch	No
BusAdapter (PROFINET)	No
Protocols	
PROFIBUS DP device	Yes
Interface types	
RS 485	
Transmission rate, max.	12 Mbit/s
Protocols	
Modbus TCP	No
PROFIBUS DP	110
Services	
	Yes
SYNC capability FREEZE capability	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	165
Status indicator	Vac
	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	V 150
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	Yes; Yellow LED
Connection display DP	Vectored LED
	Yes; green LED
Potential separation	
between backplane bus and electronics	No
between backplane bus and electronics between PROFIBUS DP and all other circuit components	No Yes
between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits	No
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between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits Permissible potential difference	No Yes No
between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits Permissible potential difference between different circuits	No Yes No
between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits Permissible potential difference between different circuits Isolation	No Yes No Safety extra low voltage SELV
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horizontal installation, max.	60 °C
vertical installation, min.	-25 °C; from FS04
• vertical installation, max.	40 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
connection method	
ET-Connection	
• via BU/BA Send	No
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	360 g

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