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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
I^2t	0.09 $A^2 \cdot s$
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.	32 byte; For input and output data respectively
Address space per station	

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● Address space per station, max.	244 byte; For input and output data respectively
Hardware configuration	
Integrated power supply	Yes
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 slave	Yes
Interface types	
RS 485	
● Transmission rate, max.	12 Mbit/s
Protocols	
Modbus TCP	No
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● RUN LED	Yes; green LED
● ERROR LED	Yes; red LED
● MAINT LED	Yes; Yellow LED
● Connection display DP	Yes; green LED
Potential separation	
between backplane bus and electronics	No
between PROFIBUS DP and all other circuit components	Yes
between supply and all other circuits	No
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-25 °C; from FS04
● 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	

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Weight, approx.	360 g

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