SIEMENS

SIMATIC ET 200SP, PROFIBUS bundle IM, IM 155-6DP HF, max. 32 I/O modules and 16 ET 200AL modules, Multi-hotswap, bundle consists of: Interface module (6ES7155-6BU01-0CN0), Server module (6ES7193-6PA00-0AA0), PROFIBUS connector (6ES7972-0BB70-0XA0)

General information	
Product type designation	IM 155-6 DP HF
HW functional status	From FS02
Firmware version	V4.2
Product function	
● I&M data	Yes; I&M0 to I&M3
● Module swapping during operation (hot swapping)	Yes; Multi-hot swapping
● Isochronous mode	No
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V15 SP1
● STEP 7 configurable/integrated from version	As of V5.5 SP4, only up to FW V3.1
● PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher

Configuration control	
via dataset	Yes

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
Mains buffering	
● Mains/voltage failure stored energy time	10 ms

Input current	
Current consumption, max.	335 mA
Inrush current, max.	1.6 A
I²t	0.038 A²·s

Power loss	
Power loss, typ.	1.5 W

Address area	
Address space per module	
● Address space per module, max.	32 byte; per input / output
Address space per station	
● Address space per station, max.	244 byte; per input / output

Hardware configuration	
Rack	
● Quantity of operable ET 200SP modules, max.	32
● Quantity of operable ET 200AL modules, max.	16

Interfaces	
Number of PROFIBUS interfaces	1

1. Interface	

Interface types	
● RS 485	Yes
● Output current of the interface, max.	90 mA
Protocols	
● PROFIBUS DP slave	Yes

Interface types

RS 485	
● Transmission rate, max.	12 Mbit/s

Protocols

Open IE communication	
● TCP/IP	No
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— DPV0	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
● Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
● Connection display DP	Yes; green DP 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
● horizontal installation, max.	60 °C
● vertical installation, min.	-25 °C
● vertical installation, max.	50 °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 / header

ET-Connection	
● via BU/BA Send	Yes; + 16 ET 200AL modules

Dimensions

Width	50 mm
Height	117 mm
Depth	74 mm

Weights

Weight, approx.	150 g

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