

SIEMENS

Product data sheet

6ES7277-0AA22-0XA0


SIMATIC S7-200,
PROFIBUS DP SLAVE MODULE,
9.6KB TO 12MB, 1 PORT, PROFIBUS DP/MPI

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	150 mA
from sensor current supply or external current supply (24 V DC), max.	180 mA ; 30 to 180 mA
Output voltage	
5 V DC	
Output current, max.	90 mA
24 V DC	
Voltage range	20.4 to 28.8 V
Output current, max.	120 mA
Current limiting	0.7 to 2.4 A

Power losses	
Power loss, typ.	2.5 W
Hardware configuration	
Connectable nodes	TD 200 as of V2.0, OP, TP, PG/PC, S7-300/400, PROFIBUS DP master
Interfaces	
Number of RS 485 interfaces	1
PROFIBUS DP	
Node addresses	0 to 99, adjustable
Cable length, max.	1200 m ; 100 to 1200 m, depending on transmission speed
Number of stations per segment, max.	32
Automatic detection of transmission speed	Yes
Transmission rate, max.	12 Mbit/s ; 9.6 / 19.2 / 45.45 / 93.75 / 187.5 / 500 Kbit/s; 1 / 1.5 / 3 / 6 / 12 Mbit/s
Number of stations in network, max.	126 ; of which max. 99 EM 277
Communication functions	
Bus protocol/transmission protocol	PROFIBUS DP (slave), MPI (slave)
Number of connections	
MPI connections, max.	6
number of which are reserved for OP communication	1
of which reserved for PG communication	1
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Bus fault (red)	Yes
CPU error (red)	Yes
DX mode (red)	Yes
Power supply (red)	Yes
Isolation	
Isolation checked with	between external signal and control logic: 500 V AC (galvanic); 5 V DC interface: Isolation between output and module as well as 24 V DC supply voltage: 500 V AC (max. 1 min.); 24 V DC interface: Isolation no; same circuit as 24 V DC supply voltage

Connection method	
Plug-in I/O terminals	No
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weight	
Weight, approx.	175 g
Status	Jun 23, 2012