



Figure similar

\*\*\* spare part \*\*\* ET 200S Compact, 16 DI/16 DQ STD 24 V DC, 3 ms.; 24 V DC, 0.5 A expandable by up to 12 modules of the ET 200S (no F modules) electronics block

General information	
Vendor identification (VendorID)	8200H
Product function	
• Isochronous mode	No
Supply voltage	
Load voltage 1L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
Input current	
from supply voltage 1L+, max.	100 mA
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
• Inputs	100 byte
• Outputs	100 byte
Digital inputs	
Number of digital inputs	16
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	3 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms; typically 3 ms
— at "0" to "1", max.	4.8 ms; typically 3 ms
— at "1" to "0", min.	1.2 ms; typically 3 ms
— at "1" to "0", max.	4.8 ms; typically 3 ms
Cable length	
• unshielded, max.	1 000 m
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	L+ (-55 to -60 V)
Controlling a digital input	Yes
Switching capacity of the outputs	

<ul style="list-style-type: none"> <li>• on lamp load, max.</li> </ul>	5 W
<b>Output voltage</b>	
<ul style="list-style-type: none"> <li>• for signal "1", min.</li> </ul>	L+ (-0.8 V)
<b>Output current</b>	
<ul style="list-style-type: none"> <li>• for signal "1" permissible range, min.</li> <li>• for signal "1" permissible range, max.</li> <li>• for signal "0" residual current, max.</li> </ul>	7 mA 0.6 A 0.5 mA
<b>Output delay with resistive load</b>	
<ul style="list-style-type: none"> <li>• "0" to "1", max.</li> <li>• "1" to "0", max.</li> </ul>	0.5 ms 1.3 ms
<b>Switching frequency</b>	
<ul style="list-style-type: none"> <li>• with resistive load, max.</li> <li>• with inductive load, max.</li> <li>• on lamp load, max.</li> </ul>	100 Hz 2 Hz 10 Hz
<b>Total current of the outputs (per group)</b>	
all mounting positions	
— up to 60 °C, max.	2 A
<b>Cable length</b>	
<ul style="list-style-type: none"> <li>• unshielded, max.</li> </ul>	1 000 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
<ul style="list-style-type: none"> <li>• 2-wire sensor</li> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul>	Yes 1.5 mA
<b>1. Interface</b>	
<b>Interface types</b>	
<ul style="list-style-type: none"> <li>• RS 485</li> <li>• Output current of the interface, max.</li> </ul>	Yes 80 mA
<b>Interface types</b>	
RS 485	
<ul style="list-style-type: none"> <li>• Transmission rate, max.</li> <li>• Cable length, max.</li> </ul>	12 Mbit/s 1 200 m
<b>Protocols</b>	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
<b>Protocols (Ethernet)</b>	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No
<b>PROFIBUS DP</b>	
<b>Services</b>	
— Direct data exchange (slave-to-slave communication)	Yes
<b>Interrupts/diagnostics/status information</b>	
Alarms	No
Diagnostics function	Yes
<b>Diagnostics indication LED</b>	
<ul style="list-style-type: none"> <li>• Bus fault BF (red)</li> <li>• Group error SF (red)</li> <li>• Status indicator digital input (green)</li> <li>• Status indicator digital output (green)</li> <li>• Monitoring 24 V voltage supply ON (green)</li> </ul>	Yes Yes Yes Yes Yes
<b>Potential separation</b>	
between backplane bus and electronics	No
between supply voltage and electronics	No
<b>Potential separation digital inputs</b>	
<ul style="list-style-type: none"> <li>• Potential separation digital inputs</li> </ul>	No
<b>Potential separation digital outputs</b>	
<ul style="list-style-type: none"> <li>• Potential separation digital outputs</li> </ul>	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Degree and class of protection</b>	
IP degree of protection	IP20
<b>connection method / header</b>	

Design of electrical connection for the inputs and outputs

Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection

**Dimensions**

Width	120 mm
Height	81 mm
Depth	58 mm

**Weights**

Weight, approx.	230 g; EB only
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**last modified:** 10/25/2022 