

ET 200S COMPACT, 16DI/16DO STD DC24V, 3MS; DC24V, 0.5A  
EXPANDABLE WITH UP TO 12 ET 200S MODULES (NO F-  
MODULES) ELECTRONICBLOCK



Figure similar

General information	
Vendor identification (VendorID)	8200H
Supply voltage	
Load voltage 1L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
from supply voltage 1L+, max.	100 mA
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
<ul style="list-style-type: none"> <li>Inputs</li> </ul>	100 byte
<ul style="list-style-type: none"> <li>Outputs</li> </ul>	100 byte
Digital inputs	

Number of digital inputs	16
<b>Input voltage</b>	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	13 to 30V
<b>Input current</b>	
• for signal "1", typ.	3 mA
<b>Input delay (for rated value of input voltage)</b>	
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
<b>Cable length</b>	
• unshielded, max.	1 000 m
<b>Digital outputs</b>	
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
<b>Switching capacity of the outputs</b>	
• on lamp load, max.	5 W
<b>Output voltage</b>	
• for signal "1", min.	L+ (-0.8 V)
<b>Output current</b>	
• for signal "1" permissible range, min.	7 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "0" residual current, max.	0.5 mA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	0.5 ms
• "1" to "0", max.	1.3 ms
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	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>	
• unshielded, max.	1 000 m

Encoder	
Connectable encoders	
<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
Interfaces	
Interface physics, RS 485	Yes
Interface physics, FOC	No
PROFIBUS DP	
<ul style="list-style-type: none"> <li>• Output current, max.</li> <li>• Transmission rate, max.</li> <li>• Transmission procedure</li> <li>• Direct data exchange (slave-to-slave communication)</li> </ul>	80 mA 12 Mbit/s RS 485 Yes
Cable length	
— Cable length, max.	1 200 m
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	No
Diagnostic functions	Yes
Diagnostics indication LED	
<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
Potential separation	
between backplane bus and electronics	No
between supply voltage and electronics	No
Potential separation digital inputs	
<ul style="list-style-type: none"> <li>• Potential separation digital inputs</li> </ul>	No
Potential separation digital outputs	
<ul style="list-style-type: none"> <li>• Potential separation digital outputs</li> </ul>	Yes

Isolation	
Isolation tested with	500 V DC
Degree and class of protection	
IP degree of protection	IP20
Connection method	
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
<b>last modified:</b>	03/11/2017