

LOGO! DM8 230R expansion module, PS/I/O: 230V/230V/relay, 2 MW, 4 DI/4 DO for LOGO! 8



## Installation type/mounting

Mounting on 35 mm DIN rail, 2 spacing units wide

## Supply voltage

Rated value (DC)

- 115 V DC Yes
- 230 V DC Yes

permissible range, lower limit (DC) 100 V

permissible range, upper limit (DC) 253 V

Rated value (AC)

- 115 V AC Yes
- 230 V AC Yes

Line frequency

- permissible range, lower limit 47 Hz
- permissible range, upper limit 63 Hz

## Digital inputs

Number of digital inputs 4

Input voltage

- Type of input voltage AC/DC

<ul style="list-style-type: none"> <li>• for signal "0"</li> <li>• for signal "1"</li> </ul>	<p>&lt; 40 V AC, &lt; 30 V DC</p> <p>&gt; 79 V AC, &gt; 79 V DC</p>
<b>Input current</b>	
<ul style="list-style-type: none"> <li>• for signal "0", max. (permissible quiescent current)</li> <li>• for signal "1", typ.</li> </ul>	<p>0.06 mA; 0.05 mA with AC, 0.06 mA with DC</p> <p>0.13 mA</p>
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— at "0" to "1", max.	40 ms
— at "1" to "0", max.	75 ms
<b>Digital outputs</b>	
Number of digital outputs	4; Relays
Short-circuit protection	No
Controlling a digital input	Yes
<b>Switching capacity of the outputs</b>	
<ul style="list-style-type: none"> <li>• on lamp load, max.</li> </ul>	1 000 W; 500 W at 115V AC
<b>Output current</b>	
<ul style="list-style-type: none"> <li>• for signal "1" rated value</li> <li>• for signal "1" minimum load current</li> </ul>	<p>5 A</p> <p>100 mA</p>
<b>Parallel switching of two outputs</b>	
<ul style="list-style-type: none"> <li>• for uprating</li> </ul>	No
<b>Switching frequency</b>	
<ul style="list-style-type: none"> <li>• with resistive load, max.</li> <li>• with inductive load, max.</li> <li>• mechanical, max.</li> </ul>	<p>2 Hz</p> <p>0.5 Hz</p> <p>10 Hz</p>
<b>Relay outputs</b>	
Switching capacity of contacts	
— with inductive load, max.	3 A
— with resistive load, max.	5 A
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> <li>• Limit class B, for use in residential areas</li> </ul>	Yes
<b>Degree and class of protection</b>	
Degree of protection acc. to EN 60529	
<ul style="list-style-type: none"> <li>• IP20</li> </ul>	Yes
<b>Standards, approvals, certificates</b>	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
FM approval	Yes
developed in accordance with IEC 61131	Yes

according to VDE 0631	Yes
Marine approval	Yes

### Ambient conditions

Ambient temperature during operation	
• min.	0 °C; ES03 and higher: -20 °C
• max.	55 °C

### Dimensions

Width	35.5 mm
Height	90 mm
Depth	58 mm

**last modified:** 11/13/2019