## SIEMENS

## Data sheet

## 6ED1055-1MB00-0BA2



LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/relay, 2 MW, 4 DI/4 DO for LOGO! 8

Mounting     on 35 mm DIN rail, 2 spacing units wide       Supply voltage       Rated value (DC)     Yes       • 12 V DC     Yes       • 24 V DC     Yes       permissible range, lower limit (DC)     10.8 V       permissible range, upper limit (DC)     28.8 V       Digital inputs     4       Number of digital inputs     4       • Type of input voltage     DC       • for signal "0", max. (permissible quiescent current)     0.88 mA       • for signal "0", max. (permissible quiescent current)     0.88 mA       • for signal "0", max. (permissible quiescent current)     0.88 mA       • for signal "0", max.     1.5 mA       Input delay (for rated value of input voltage)     for standard inputs       - at "0" to "1", max.     1.5 ms       - at "1" to "0", max.     1.5 ms       Digital outputs     4. Relays       Short-circuit protection     No       Controlling a digital input     Yes       Switching capacity of the outputs     1000 W       Output current     100 mA       • for signal "1" rited value     5 A       • for signal "1" rited value     5 A       • for uprating     No       Switching frequency     •       • with inductive load, max.     0.5 Hz       • with inductise load, max. <th colspan="2">Installation type/mounting</th>	Installation type/mounting		
Rated value (DC)     Yes       • 12 V DC     Yes       • 24 V DC     Yes       permissible range, lower limit (DC)     10.8 V       permissible range, upper limit (DC)     28.8 V       Digital inputs     4       Number of digital inputs     4       Input voltage     DC       • Type of input voltage     DC       • for signal "0"     < 5 V DC	Mounting	on 35 mm DIN rail, 2 spacing units wide	
• 12 V DC         Yes           • 24 V DC         Yes           permissible range, topper limit (DC)         10.8 V           permissible range, topper limit (DC)         28.8 V           Digital inputs         4           Input voltage         0           • Type of input voltage         DC           • for signal "0"         < 5 V DC	Supply voltage		
• 24 V DC         Yes           permissible range, lower limit (DC)         10.8 V           permissible range, upper limit (DC)         28.8 V           Digital inputs         4           Number of digital inputs         4           Input voltage         DC                • for signal "0"         < 5 V DC	Rated value (DC)		
permissible range, lower limit (DC)         10.8 V           permissible range, upper limit (DC)         28.8 V           Digital inputs         4           Number of digital inputs         4           Input voltage         DC           • Type of input voltage         DC           • for signal "0"         < 5 V DC	• 12 V DC	Yes	
permissible range, upper limit (DC)         28.8 V           Digital inputs         4           Number of digital inputs         4           Input voltage         DC           • for signal "0"         < 5 V DC	• 24 V DC	Yes	
Digital inputs       4         Number of digital inputs       4         Input voltage       DC         • for signal "0"       < 5 V DC	permissible range, lower limit (DC)	10.8 V	
Number of digital inputs       4         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	permissible range, upper limit (DC)	28.8 V	
Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 ∨ DC	Digital inputs		
• Type of input voltage     DC       • for signal "0"     < 5 V DC	Number of digital inputs	4	
<ul> <li>for signal "0"</li> <li>for signal "1"</li> <li>\$ 5 V DC</li> <li>for signal "1"</li> <li>\$ 8.5 V</li> </ul> Input current <ul> <li>for signal "0", max. (permissible quiescent current)</li> <li>for signal "1", typ.</li> <li>1.5 mA</li> </ul> Input delay (for rated value of input voltage) <ul> <li>for standard inputs</li> <li>- at "0" to "1", max.</li> <li>1.5 ms</li> <li>- at "1" to "0", max.</li> <li>1.5 ms</li> <li>- at "1" to "0", max.</li> <li>1.5 ms</li> <li>- at "1" to "0", max.</li> <li>1.5 ms</li> <li>Digital outputs</li> <li>Number of digital outputs</li> <li>Short-circuit protection</li> <li>No</li> <li>Controlling a digital input</li> <li>Yes</li> <li>Switching capacity of the outputs</li> <li>on lamp load, max.</li> <li>1000 W</li> </ul> Output current <ul> <li>for signal "1" minimum load current</li> <li>100 mA</li> </ul> Parallel switching of two outputs <ul> <li>or for uprating</li> <li>No</li> </ul> Switching frequency <ul> <li>with resistive load, max.</li> <li>0.5 Hz</li> <li>with inductive load, max.</li> <li>0.5 Hz</li> <li>mechanical, max.</li> <li>10 Hz</li> </ul>	Input voltage		
• for signal "1"         > 8.5 V           Input current         0.88 mA           • for signal "0", max. (permissible quiescent current)         0.88 mA           • for signal "1", typ.         1.5 mA           Input delay (for rated value of input voltage)         -           for standard inputs         -           - at "0" to "1", max.         1.5 ms           - at "1" to "0", max.         1.5 ms           - at "1" to "0", max.         1.5 ms           Digital outputs         4; Relays           Number of digital outputs         4; Relays           Short-circuit protection         No           Controlling a digital input         Yes           Switching capacity of the outputs         -           • on lamp load, max.         1000 W           Output current         -           • for signal "1" rated value         5 A           • for signal "1" minimum load current         100 mA           Parallel switching of two outputs         -           • for uprating         No           Switching frequency         -           • with resistive load, max.         2 Hz           • with inductive load, max.         0.5 Hz           • mechanical, max.         10 Hz	<ul> <li>Type of input voltage</li> </ul>	DC	
Input current       0.88 mA         • for signal "0", max. (permissible quiescent current)       0.88 mA         • for signal "1", typ.       1.5 mA         Input delay (for rated value of input voltage)       ifor standard inputs         - at "0" to "1", max.       1.5 ms         - at "0" to "1", max.       1.5 ms         - at "1" to "0", max.       1.5 ms         Digital outputs       4; Relays         Number of digital outputs       4; Relays         Short-circuit protection       No         Controlling a digital input       Yes         Switching capacity of the outputs       1000 W         Output current       100 mA         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       5 A         • for uprating       No         Switching frequency       with resistive load, max.         • with inductive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	• for signal "0"	< 5 V DC	
• for signal "0", max. (permissible quiescent current)         0.88 mA           • for signal "1", typ.         1.5 mA           Input delay (for rated value of input voltage)         for standard inputs           - at "0" to "1", max.         1.5 ms           - at "1" to "0", max.         1.5 ms           - at "1" to "0", max.         1.5 ms           Digital outputs         4; Relays           Number of digital outputs         4; Relays           Short-circuit protection         No           Controlling a digital input         Yes           Switching capacity of the outputs         000 W           Output current         5 A           • for signal "1" rated value         5 A           • for signal "1" minimum load current         1000 mA           Parallel switching of two outputs         5 A           • for signal "1" rated value         5 A           • for signal "1" ratein value         5 A           • for up rating         No           Switching requency	• for signal "1"	> 8.5 V	
• for signal "1", typ.       1.5 mA         Input delay (for rated value of input voltage)       for standard inputs         at "0" to "1", max.       1.5 ms         at "1" to "0", max.       1.5 ms         at "1" to "0", max.       1.5 ms         at "1" to "0", max.       1.5 ms         Digital outputs       4; Relays         Number of digital outputs       4; Relays         Short-circuit protection       No         Controlling a digital input       Yes         Switching capacity of the outputs	Input current		
Input delay (for rated value of input voltage)         for standard inputs	<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	0.88 mA	
for standard inputs	<ul> <li>for signal "1", typ.</li> </ul>	1.5 mA	
at "0" to "1", max.1.5 ms at "1" to "0", max.1.5 msDigital outputsNumber of digital outputs4; RelaysShort-circuit protectionNoControlling a digital inputYesSwitching capacity of the outputs1000 WOutput current5 A• for signal "1" rated value5 A• for signal "1" minimum load current100 mAParallel switching of two outputsNo• with resistive load, max.2 Hz• with inductive load, max.0.5 Hz• mechanical, max.10 Hz	Input delay (for rated value of input voltage)		
— at "1" to "0", max.1.5 msDigital outputsNumber of digital outputs4; RelaysShort-circuit protectionNoControlling a digital inputYesSwitching capacity of the outputs000 W• on lamp load, max.1 000 WOutput current5 A• for signal "1" rated value5 A• for signal "1" minimum load current100 mAParallel switching of two outputs• for upratingNoSwitching frequency• with resistive load, max.2 Hz• with inductive load, max.0.5 Hz• mechanical, max.10 Hz			
Digital outputs       4; Relays         Number of digital outputs       4; Relays         Short-circuit protection       No         Controlling a digital input       Yes         Switching capacity of the outputs       • on lamp load, max.         • on lamp load, max.       1 000 W         Output current       • for signal "1" rated value         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       • for uprating         • for uprating       No         Switching frequency       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	— at "0" to "1", max.	1.5 ms	
Number of digital outputs       4; Relays         Short-circuit protection       No         Controlling a digital input       Yes         Switching capacity of the outputs       • on lamp load, max.         • on lamp load, max.       1 000 W         Output current       • for signal "1" rated value         • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       • for uprating         • for uprating       No         Switching frequency       • with resistive load, max.         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	— at "1" to "0", max.	1.5 ms	
Short-circuit protection       No         Controlling a digital input       Yes         Switching capacity of the outputs       1 000 W         Output current       1 000 W         Output current       5 A         • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       •         • for uprating       No         Switching frequency       •         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	Digital outputs		
Controlling a digital input       Yes         Switching capacity of the outputs          • on lamp load, max.       1 000 W         Output current          • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs          • for uprating       No         Switching frequency          • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	Number of digital outputs	4; Relays	
Switching capacity of the outputs         • on lamp load, max.       1 000 W         Output current         • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs         • for uprating       No         Switching frequency         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	Short-circuit protection	No	
• on lamp load, max.       1 000 W         Output current       5 A         • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       •         • for uprating       No         Switching frequency       •         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	Controlling a digital input	Yes	
Output current         • for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       •         • for uprating       No         Switching frequency       •         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	Switching capacity of the outputs		
• for signal "1" rated value       5 A         • for signal "1" minimum load current       100 mA         Parallel switching of two outputs       •         • for uprating       No         Switching frequency       •         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	<ul> <li>on lamp load, max.</li> </ul>	1 000 W	
• for signal "1" minimum load current       100 mA         Parallel switching of two outputs	Output current		
Parallel switching of two outputs       No         • for uprating       No         Switching frequency       Vertice         • with resistive load, max.       2 Hz         • with inductive load, max.       0.5 Hz         • mechanical, max.       10 Hz	<ul> <li>for signal "1" rated value</li> </ul>	5 A	
• for uprating     No       Switching frequency        • with resistive load, max.     2 Hz       • with inductive load, max.     0.5 Hz       • mechanical, max.     10 Hz	<ul> <li>for signal "1" minimum load current</li> </ul>	100 mA	
Switching frequency         • with resistive load, max.         • with inductive load, max.         • mechanical, max.         10 Hz	Parallel switching of two outputs		
• with resistive load, max.2 Hz• with inductive load, max.0.5 Hz• mechanical, max.10 Hz	<ul> <li>for uprating</li> </ul>	No	
• with inductive load, max.     0.5 Hz       • mechanical, max.     10 Hz	Switching frequency		
• mechanical, max. 10 Hz	<ul> <li>with resistive load, max.</li> </ul>	2 Hz	
	<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz	
Relay outputs	mechanical, max.	10 Hz	

Switching capacity of contacts	
— with inductive load, max.	3 A
- with resistive load, max.	5 A
EMC	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class B, for use in residential areas</li> </ul>	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
FM approval	Yes
developed in accordance with IEC 61131	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:

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