## SIEMENS

## Data sheet

## 6ED1055-1CB10-0BA2



LOGO! DM16 24 expansion module, PS/I/O: 24 V DC/24 V DC/trans., 8 DI/8 DO, 4 MW for LOGO! 8

Mounting       on 35 mm DIN rail, 4 spacing units wide         Supply voltage         Rated value (DC)          • 24 V DC       Yes         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC         • for signal "1"       > 12 V DC         Input current       0.85 mA         • for signal "0", max. (permissible quiescent current)       0.85 mA         • for signal "0", max. (permissible quiescent current)       0.85 mA         • for signal "0", max.       1.5 ms         - 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       8         Number of digital outputs       8         Short-circuit protection       Yes         Output current       6	Installation type/mounting		
Rated value (DC)       Yes         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	Mounting	on 35 mm DIN rail, 4 spacing units wide	
• 24 V DC       Yes         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	Supply voltage		
permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	Rated value (DC)		
permissible range, upper limit (DC)       28.8 V         Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	• 24 V DC	Yes	
Digital inputs       8         Number of digital inputs       8         Input voltage       DC         • Type of input voltage       DC         • for signal "0"       < 5 V DC	permissible range, lower limit (DC)	20.4 V	
Number of digital inputs       8         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 V DC	Digital inputs		
• Type of input voltage       DC         • for signal "0"       < 5 V DC	Number of digital inputs	8	
• for signal "0"       < 5 ∨ DC	Input voltage		
● for signal "1"       > 12 V DC         Input current       0.85 mA         ● for signal "0", max. (permissible quiescent current)       0.85 mA         ● for signal "1", typ.       2 mA         Input delay (for rated value of input voltage)       7         for standard inputs       1.5 ms         at "0" to "1", max.       1.5 ms         at "1" to "0", max.       1.5 ms         Digital outputs       8         Short-circuit protection       Yes	<ul> <li>Type of input voltage</li> </ul>	DC	
Input current         • for signal "0", max. (permissible quiescent current)       0.85 mA         • for signal "1", typ.       2 mA         Input delay (for rated value of input voltage)       7         for standard inputs       - at "0" to "1", max.         - at "0" to "1", max.       1.5 ms         - at "1" to "0", max.       1.5 ms         Digital outputs       8         Number of digital outputs       8         Short-circuit protection       Yes	• for signal "0"	< 5 V DC	
• for signal "0", max. (permissible quiescent current)       0.85 mA         • for signal "1", typ.       2 mA         Input delay (for rated value of input voltage)       7         for standard inputs       - at "0" to "1", max.         - at "0" to "1", max.       1.5 ms         - at "1" to "0", max.       1.5 ms         Digital outputs       8         Number of digital outputs       8         Short-circuit protection       Yes	• for signal "1"	> 12 V DC	
for signal "1", typ. 2 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          Number of digital outputs 8 Short-circuit protection Yes	Input current		
Input delay (for rated value of input voltage)         for standard inputs         — at "0" to "1", max.         — at "1" to "0", max.         1.5 ms         Digital outputs         Number of digital outputs         8         Short-circuit protection         Yes	<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	0.85 mA	
for standard inputs         at "0" to "1", max.         at "1" to "0", max.         1.5 ms         Digital outputs         Number of digital outputs         8         Short-circuit protection         Yes	<ul> <li>for signal "1", typ.</li> </ul>	2 mA	
	Input delay (for rated value of input voltage)		
— at "1" to "0", max.     1.5 ms       Digital outputs     8       Number of digital outputs     8       Short-circuit protection     Yes	for standard inputs		
Digital outputs       Number of digital outputs     8       Short-circuit protection     Yes		1.5 ms	
Number of digital outputs     8       Short-circuit protection     Yes	— at "1" to "0", max.	1.5 ms	
Short-circuit protection Yes	Digital outputs		
	Number of digital outputs	8	
Output current	Short-circuit protection	Yes	
	Output current		
• for signal "1" rated value 0.3 A	<ul> <li>for signal "1" rated value</li> </ul>	0.3 A	
Parallel switching of two outputs	Parallel switching of two outputs		
for uprating     No		No	
Switching frequency	Switching frequency		
• with resistive load, max. 10 Hz	<ul> <li>with resistive load, max.</li> </ul>	10 Hz	
• with inductive load, max. 0.5 Hz		0.5 Hz	
EMC	EMC		
Emission of radio interference acc. to EN 55 011	Emission of radio interference acc. to EN 55 011		
Limit class B, for use in residential areas Yes	Limit class B, for use in residential areas	Yes	
Degree and class of protection	Degree and class of protection		
IP degree of protection IP20	IP degree of protection	IP20	
Standards, approvals, certificates	Standards, approvals, certificates		
CE mark Yes	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	71.5 mm
Height	90 mm
Depth	58 mm
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