## 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           Stupply voltage	Installation type/mounting		
Rated value (DC)     Yes       • 24 V DC     Yes       permissible range, upper limit (DC)     28.8 V       Digital inputs     8       Input voltage     DC       • Type of fight 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       • for signal "0"     < 5 V DC	Rated value (DC)		
permissible range, upper limit (DC)         28.8 V           Pigital 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       • 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 V DC	Input voltage		
• for signal "1"       > 12 V DC         Input current       0.85 mA         • for signal "1", typ.       2 mA         Input delay (for rated value of input voltage)       7 max.         for standard inputs       - at "0" to "1", max.         - 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         Objital outputs       8         Number of digital outputs       8         Short-circuit protection       Yes         Output current       0.3 A         Parallel switching of two outputs       0.3 A         e for signal "1" rated value       0.3 A         Parallel switching of two outputs       0.5 Hz         e. with resistive load, max.       10 Hz         • with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         CE mark       Yes         UL approval       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)       6         for standard inputs       1.5 ms	<ul> <li>for signal "0"</li> </ul>	< 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)         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         8           Number of digital outputs         8           Short-circuit protection         Yes           Output current         0.3 A           • for signal "1" rated value         0.3 A           Parallel switching of two outputs         •           • for uprating         No           Switching frequency         •           • with inductive load, max.         0.5 Hz           EMC         Emission of radio interference acc. to EN 55 011           • Limit class B, for use in residential areas         Yes           Degree and class of protection         IP20           Standards, approvals, certificates         Yes           CE mark         Yes           CE mark         Yes           CSA approval         Yes	• for signal "1"	> 12 V DC	
<ul> <li>for signal "1", typ.</li> <li>2 mA</li> <li>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> </ul> </li> <li>Digital outputs</li> <li>8         <ul> <li>Short-circuit protection</li> <li>Yes</li> </ul> </li> <li>Output current             <ul> <li>for signal "1" rated value</li> <li>0.3 A</li> </ul> </li> <li>Parallel switching of two outputs             <ul> <li>for uprating</li> <li>No</li> </ul> </li> <li>Switching frequency             <ul> <li>with resistive load, max.</li> <li>0.5 Hz</li> <li>Emission of radio interference acc. to EN 55 011                     <ul> <li>Limit class B, for use in residential areas</li> <li>Yes</li> <li>Degree and class of protection</li> <li>IP20</li> <li>Standards, approvals, certificates</li> <li>CE mark</li></ul></li></ul></li></ul>	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 Short-circuit protection • for signal "1" rated value • for signal "1" rated value • for uprating • for uprating • with resistive load, max. • with resistive load, max. • with resistive load, max. • with inductive load, max. • Ul Hz • Limit class B, for use in residential areas Paralel switching Feree and class of protection IP degree of protection IP degree of protection IP degree of protection IP degree of protection Ves CE mark CE mark CE mark CE mark CE mark Ves Ves	<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	0.85 mA	
for standard inputs	0 11	2 mA	
at "0" to "1", max.1.5 ms at "1" to "0", max.1.5 msDigital outputsNumber of digital outputs8Short-circuit protectionYesOutput current0.3 AParallel switching of two outputs0.3 A• for signal "1" rated value0.3 AParallel switching of two outputs	Input delay (for rated value of input voltage)		
at "1" to "0", max.1.5 msDigital outputsNumber of digital outputs8Short-circuit protectionYesOutput current0.3 A• for signal "1" rated value0.3 AParallel switching of two outputs.• for upratingNoSwitching frequency.• with resistive load, max.10 Hz• with resistive load, max.0.5 HzEMCEmectionDegree and class of protectionIP degree of protectionIP20Standards, approvals, certificatesCE markYesCSA approvalYesUL approvalYes	for standard inputs		
Digital outputs       8         Number of digital outputs       8         Short-circuit protection       Yes         Output current       0.3 A         Parallel switching of two outputs       0.3 A         • for uprating       No         Switching frequency       0.10 Hz         • with resistive load, max.       10 Hz         • with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       CE mark         CE mark       Yes         UL approval       Yes			
Number of digital outputs       8         Short-circuit protection       Yes         Output current       0.3 A         Parallel switching of two outputs       0.3 A         Parallel switching of two outputs       0.3 A         Switching frequency       No         Switching frequency       No         with resistive load, max.       10 Hz         with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         UL approval       Yes	— at "1" to "0", max.	1.5 ms	
Short-circuit protection       Yes         Output current       0.3 A         Parallel switching of two outputs       0.3 A         Parallel switching of two outputs       0.5 A         • for uprating       No         Switching frequency       0.5 Hz         • with resistive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       CE mark         CE mark       Yes         UL approval       Yes	Digital outputs		
Output current       0.3 A         • for signal "1" rated value       0.3 A         Parallel switching of two outputs       0.3 A         • for uprating       No         Switching frequency       No         • with resistive load, max.       10 Hz         • with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         CE mark       Yes         UL approval       Yes	Number of digital outputs	8	
• for signal "1" rated value       0.3 A         Parallel switching of two outputs       •         • for uprating       No         Switching frequency       •         • with resistive load, max.       10 Hz         • with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP 20         Standards, approvals, certificates       Yes         CE mark       Yes         CE mark       Yes         UL approval       Yes	Short-circuit protection	Yes	
Parallel switching of two outputs• for upratingNoSwitching frequency10 Hz• with resistive load, max.10 Hz• with inductive load, max.0.5 HzEMCEmission of radio interference acc. to EN 55 011• Limit class B, for use in residential areasYesDegree and class of protectionIP degree of protectionIP20Standards, approvals, certificatesCE markYesCSA approvalYesUL approvalYes	Output current		
• for uprating       No         Switching frequency       10 Hz         • with resistive load, max.       10 Hz         • with inductive load, max.       0.5 Hz         EMC       Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         CSA approval       Yes         UL approval       Yes	<ul> <li>for signal "1" rated value</li> </ul>	0.3 A	
Switching frequency• with resistive load, max.10 Hz• with inductive load, max.0.5 HzEMCEmission of radio interference acc. to EN 55 011• Limit class B, for use in residential areasYesDegree and class of protectionIP degree of protectionIP20Standards, approvals, certificatesCE markYesCE markYesCSA approvalYesUL approvalYes			
• with resistive load, max.10 Hz• with inductive load, max.0.5 HzEMCEmission of radio interference acc. to EN 55 011• Limit class B, for use in residential areasYesDegree and class of protectionIP degree of protectionIP20Standards, approvals, certificatesCE markYesCE markYesUL approvalYesUL approvalYes		No	
<ul> <li>with inductive load, max.</li> <li>0.5 Hz</li> <li>EMC</li> <li>Emission of radio interference acc. to EN 55 011         <ul> <li>Limit class B, for use in residential areas</li> <li>Yes</li> </ul> </li> <li>Degree and class of protection         <ul> <li>IP degree of protection</li> <li>IP20</li> </ul> </li> <li>Standards, approvals, certificates</li> <li>CE mark             <ul> <li>Yes</li> <li>CSA approval</li> <li>Yes</li> <li>UL approval</li> <li>Yes</li> </ul> </li> </ul>	Switching frequency		
EMC         Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas         Yes         Degree and class of protection         IP degree of protection         IP20         Standards, approvals, certificates         CE mark       Yes         CSA approval       Yes         UL approval       Yes	<ul> <li>with resistive load, max.</li> </ul>		
Emission of radio interference acc. to EN 55 011         • Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         IP degree of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         CSA approval       Yes         UL approval       Yes	with inductive load, max.	0.5 Hz	
• Limit class B, for use in residential areas       Yes         Degree and class of protection       IP20         IP degree of protection       IP20         Standards, approvals, certificates       Yes         CE mark       Yes         CSA approval       Yes         UL approval       Yes	EMC		
Degree and class of protection       IP20         IP degree of protection       IP20         Standards, approvals, certificates       CE mark         CE mark       Yes         CSA approval       Yes         UL approval       Yes	Emission of radio interference acc. to EN 55 011		
IP degree of protection     IP20       Standards, approvals, certificates     Yes       CE mark     Yes       CSA approval     Yes       UL approval     Yes	<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	Degree and class of protection		
CE markYesCSA approvalYesUL approvalYes	IP degree of protection	IP20	
CSA approvalYesUL approvalYes	Standards, approvals, certificates		
UL approval Yes	CE mark	Yes	
	CSA approval	Yes	
FM 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

last modified:

3/12/2021 🖸