OFFICIAL DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens technical pages

SIEMENS LOGO! DIGITAL EXPANSION

6ED1055-1CB00-0BA2

LOGO! DM8 24 EXPANSION MODULE

Selected official pages cover housing dimensions, approximate weight, supply requirements and input/output ratings.

OFFICIAL SOURCE

Siemens LOGO! System Manual, 06/2023, A5E33039675-AL

Pages 343 and 352-353

Use the LOGO! DM8 24 column. Adjacent model columns remain unchanged to preserve the original manufacturer pages and notes.

Technical data

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A.1 General technical data

Criterion	Tested in accordance with	Values
LOGO! Base Modules (0BA8)		
LOGO! Basic		
Dimensions (WxHxD)		71.5 x 90 x 60 mm
Weight		
• Modules with relay output		Approx. 240 g
• Modules with transistor output		Approx. 195 g
Installation		On a 35 mm profile rail four module widths or wall mounting
LOGO! Pure		
Dimensions (WxHxD)		71.5 x 90 x 58 mm
Weight		
• Modules with relay output		Approx. 200 g
• Modules with transistor output		Approx. 160 g
Installation		On a 35 mm profile rail four module widths or wall mounting
LOGO! expansion modules DM16...		
Dimensions (WxHxD)		71.5 x 90 x 58 mm
Weight		
• Modules with relay output		Approx. 225 g
• Modules with transistor output		Approx. 165 g
Installation		On a 35 mm profile rail four module widths or wall mounting
LOGO! expansion modules DM8...		
Dimensions (WxHxD)		35.5 x 90 x 58 mm
Weight		
• Modules with relay output		Approx. 130 g
• Modules with transistor output		Approx. 95 g
Installation		On a 35 mm profile rail two module widths or wall mounting
LOGO! expansion modules AM...		
Dimensions (WxHxD)		35.5 x 90 x 58 mm
Weight		Approx. 95 g
Installation		On a 35 mm profile rail two module widths or wall mounting
LOGO! TDE (Text Display with Ethernet interfaces)		
Dimensions (WxHxD)		128.2 x 86 x 38.7 mm
Weight		Approx. 220 g
Installation		Bracket mounting

	LOGO! 24CE **LOGO! 24CEo**
Output current	Max. 0.3 A per channel
Short circuit-proof and overload-proof	Yes
Short circuit current limitation	Approx. 1 A per channel
Derating	None; across the entire temperature range
Short circuit-proof cos 1	- -
Short circuit-proof cos 0.5 to 0.7	- -
Parallel output circuit for power increase	Not permitted
Protection of output relay (if desired)	- -
Line length (unshielded)	Max. 100 m
Switching rate [2]	
Mechanical	- -
Electrical	10 Hz
Ohmic load/lamp load	10 Hz
Inductive load	0.5 Hz

[1] When you switch on LOGO! 24CE/24CEo, LOGO! DM8 24 or LOGO! DM16 24, the CPU sends signal 1 to the digital outputs for about 50 µs. Take this into account, especially when using devices that react to short pulses.

[2] The maximum switching rate is only dependent on the switching program's cycle time.

A.5 Technical data: LOGO! DM8 24 and LOGO! DM16 24

	LOGO! DM8 24	**LOGO! DM16 24**
Power supply		
Input voltage	24 VDC	24 VDC
Permissible range	20.4 VDC to 28.8 VDC	20.4 VDC to 28.8 VDC
Reverse polarity protection	Yes	Yes
Permissible mains frequency	- -	- -
Power consumption from 24 VDC	25 mA to 40 mA (no load on digital output) 1.2 A (with max. load on digital output)	25 mA to 50 mA (no load on digital output) 2.4 A (with max. load on digital output)
Power loss at 24 V	0.6 W to 1.0 W	0.6 W to 1.2 W
Digital inputs		
Number	4	8
Electrical isolation	No	No
Number of high speed inputs	0	0
Input frequency • Normal input • High speed input	 • Max. 4 Hz • - -	 • Max. 4 Hz • - -
Max. continuous permissible voltage	28.8 VDC	28.8 VDC

	LOGO! DM8 24	**LOGO! DM16 24**
Input voltage • Signal 0 • Signal 1	L+ • < 5 VDC • > 12 VDC	L+ • < 5 VDC • > 12 VDC
Input current at • Signal 0 • Signal 1	 • < 0.88 mA • > 2.1 mA	 • < 0.85 mA • > 2 mA
Delay time at • 0 to 1 • 1 to 0	 • Typ. 1.5 ms • Typ. 1.5 ms	 • Typ. 1.5 ms • Typ. 1.5 ms
Line length (unshielded)	Max. 100 m	Max. 100 m
Digital outputs		
Number	4	8
Output type	Transistor, current-sourcing [1)]	Transistor, current-sourcing [1)]
Electrical isolation	No	No
In groups of	- -	- -
Control of a digital input	Yes	Yes
Output voltage	≤ Supply voltage	≤ Supply voltage
Output current	Max. 0.3 A per channel	Max. 0.3 A per channel
Short circuit-proof and overload-proof	Yes	Yes
Short circuit current limitation	Approx. 1 A per channel	Approx. 1 A per channel
Derating	None; across the entire temperature range	None; across the entire temperature range
Short circuit-proof cos 1	- -	- -
Short circuit-proof cos 0.5 to 0.7	- -	- -
Parallel output circuit for power increase	Not permitted	Not permitted
Protection of output relay (if desired)	- -	- -
Line length (unshielded)	Max. 100 m	Max. 100 m
Switching rate		
Mechanical	- -	- -
Electrical	10 Hz	10 Hz
Ohmic load/lamp load	10 Hz	10 Hz
Inductive load	0.5 Hz	0.5 Hz

[1)] When you switch on LOGO! 24CE/24CEo, LOGO! DM8 24 or LOGO! DM16 24, the CPU sends signal 1 to the digital outputs for about 50 µs. Take this into account, especially when using devices that react to short pulses.