SIEMENS

Data sheet 6ED1055-1MB00-0BA3



LOGO! DM8 12/24R expansion module, power supply / I/O: 12, 24 V/12 V/24 V/relay, 2 MW, 4 DI/4 DO for LOGO! 9

Installation type/mounting	
Mounting	on 35 mm DIN rail, 2 spacing units wide
Supply voltage	
Rated value (DC)	
● 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	
Number of digital inputs	4
Input voltage	
● Type of input voltage	DC
● for signal "0"	< 5 V DC
● for signal "1"	> 8.5 V
Input current	
● 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
Digital outputs	
Number of digital outputs	4; Relays
Short-circuit protection	No
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
Relay outputs	
Switching capacity of contacts	
— with inductive load, max.	3 A

Subject to change without notice
© Copyright Siemens

— with resistive load, max.	5 A
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
FM approval	Yes
developed in accordance with IEC 61131	Yes
Marine approval	Yes
Ecological footprint	
● environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	19.1 kg
— global warming potential, (during production) [CO2 eq]	2.9 kg
— global warming potential, (during operation) [CO2 eq]	16.45 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.24 kg
Ambient conditions	
Ambient temperature during operation	
● min.	-20 °C; No condensation
● max.	55 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Altitude during operation relating to sea level	
● Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m)
Dimensions	
Width	35.5 mm; 2 modular widths (MW)
Height	90 mm
Depth	58 mm

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419

Approvals / Certificates

General Product Approval

Manufacturer Declaration

Manufacturer Declaration

Subject to change without notice
© Copyright Siemens

General Product Approval				EMV	For use in hazard-ous locations
China RoHS					

For use in hazardous locations		Environment
FM	CCC-Ex	

last modified: 5/9/2026

Subject to change without notice
© Copyright Siemens