



LOGO! DM16 230R expansion module, PS/I/O: 230V/230V/relay, 4 MW, 8 DI/8 DO for LOGO! 8

Installation type/mounting	
Mounting	on 35 mm DIN rail, 4 spacing units wide
Supply voltage	
Rated value (DC)	
• 115 V DC	Yes
• 230 V DC	Yes
permissible range, lower limit (DC)	100 V
permissible range, upper limit (DC)	253 V
Rated value (AC)	
• 115 V AC	Yes
• 230 V AC	Yes
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Digital inputs	
Number of digital inputs	8
Input voltage	
• Type of input voltage	AC/DC
• for signal "0"	< 40 V AC, < 30 V DC
• for signal "1"	> 79 V AC, > 79 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	0.06 mA; 0.05 mA with AC, 0.06 mA with DC
• for signal "1", typ.	0.13 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	40 ms
— at "1" to "0", max.	75 ms
Digital outputs	
Number of digital outputs	8; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	1 000 W; 500 W at 115V AC
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. • mechanical, max.		0.5 Hz	
		10 Hz	
Relay outputs			
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			
• 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	
according to VDE 0631		Yes	
Marine approval		Yes	
Ecological footprint			
• environmental product declaration		Yes	
Global warming potential			
— global warming potential, (total) [CO2 eq]		145 kg	
— global warming potential, (during production) [CO2 eq]		7.49 kg	
— global warming potential, (during operation) [CO2 eq]		138 kg	
— global warming potential, (after end of life cycle) [CO2 eq]		-0.491 kg	
Ambient conditions			
Ambient temperature during operation			
• min. • max.		-20 °C; No condensation	
		55 °C	
Dimensions			
Width		71.5 mm	
Height		90 mm	
Depth		58 mm	
Classifications			
		Version	Classification
	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	9	EC001419
	ETIM	8	EC001419
	ETIM	7	EC001419
	IDEA	4	3566
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			

[Manufacturer Declaration](#)



[KC](#)

[Metrological Approval](#)

General Product Approval		For use in hazardous locations		Marine / Shipping
	KC		FM	FM
RCM		CQC		
				ABS

Marine / Shipping					
			NK / Nippon Kaiji Kyokai	CCS (China Classification Society)	
BUREAU VERITAS	DNV	LRS			KR

Environment

EPD

last modified:
12/10/2024