SIEMENS

Data sheet 6ED1055-1FB10-0BA2



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	

Subject to change without notice
© Copyright Siemens

● 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
— 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.	-20 °C; No condensation
● max.	55 °C
Dimensions	
Width	71.5 mm
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
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Subject to change without notice
© Copyright Siemens

Miscellaneous

Manufacturer Declaration

General Product Approval

Metrological Approval

General Product Approval

Manufacturer Declaration

China RoHS

For use in hazardous locations

CCC-Ex

FM

CCC-Ex

Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

Maritime application

KR (Korean Register of Shipping)

Environment

last modified: 7/2/2025

Subject to change without notice
© Copyright Siemens