

SIPLUS LOGO! DM8 230 V -40...+70 °C start-up -25 °C with conformal coating based on 6ED1055-1FB00-0BA2 . Expansion module, PS/I/O: 230V/230V/relay, 2 MW, 4 DI/4 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 120/230 V AC (47 Hz to 63 Hz)
- 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. 0.37 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 4; Relays

Short-circuit protection No; external fusing necessary

Controlling a digital input Yes

Switching capacity of the outputs

- on lamp load, max. 1 000 W; 500 W at 115V AC

<b>Output current</b>	
• for signal "1" rated value	5 A
• for signal "1" minimum load current	100 mA
<b>Parallel switching of two outputs</b>	
• for uprating	No
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• mechanical, max.	10 Hz
<b>Relay outputs</b>	
<b>Switching capacity of contacts</b>	
— with inductive load, max.	3 A
— with resistive load, max.	10 A
<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
• Limit class B, for use in residential areas	Yes
<b>Degree and class of protection</b>	
<b>Degree of protection acc. to EN 60529</b>	
• IP20	Yes
<b>Standards, approvals, certificates</b>	
CE mark	Yes
developed in accordance with IEC 61131	Yes
according to VDE 0631	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	-20 °C; = Tmin; Startup @ -20 °C
• max.	70 °C; Tmax; Tmax > +55 °C max. load 1 A per relay
• At cold restart, min.	0 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-40 °C
• max.	70 °C
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	3 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... Tmax -5K) at 795 hPa ... 701 hPa (+2 000 m ... +3 000 m)
<b>Relative humidity</b>	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
<b>Resistance</b>	
Coolants and lubricants	

— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
<b>Use in stationary industrial systems</b>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
<b>Use on ships/at sea</b>	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
<b>from supply voltage 1L+</b>	
— Note regarding classification of environmental conditions acc. to EN 60721	* The supplied plug covers must remain in place over the unused interfaces during operation!

#### Dimensions

Width	71.5 mm
Height	90 mm
Depth	60 mm
<b>last modified:</b>	05/19/2018