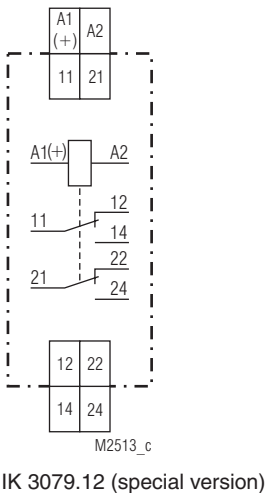
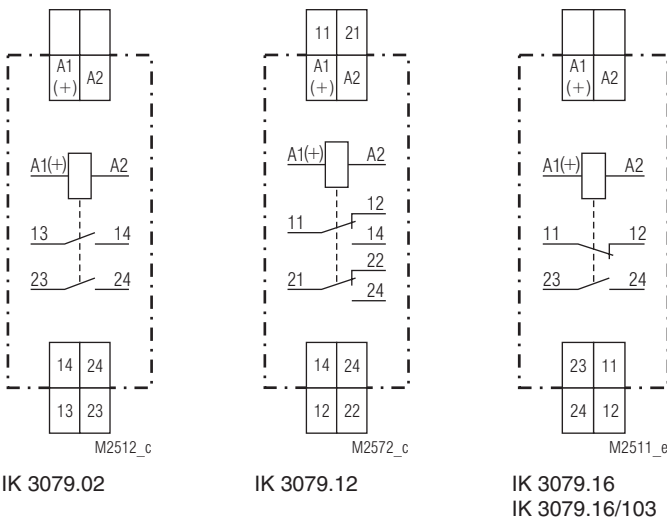




- According to IEC/EN 61 810-1
- With input protection circuit against voltage peaks
- Forcibly guided contacts according to EN 50 205
- I_{th} max. 8 A or 2 x 5 A
- Optional display by LED
- Optionally 2 NO or 2 changeover contacts or 1 NO and 1 NC
- IK 3079/103: with forcibly guided contacts according to ZH/457
- 17.5 mm width

Circuit Diagram



Approvals and Marking



Indication

green LED: on, when control voltage connected

Technical Data

Input

Nominal voltage U_N :
 IK 3079.02, IK 3079.16: AC/DC 24 V
 IK 3079.12: AC/DC 24 V, AC 230 V
 IK 3079.16/103: DC 24 V

Voltage range: AC 0.8 ... 1.1 U_N , DC 0.9 ... 1.2 U_N

Nominal consumption: approx. 0.9 W

Nominal frequency: 50 / 60 Hz

Frequency range: $\pm 5\%$ of nominal frequency

Output

Contacts

IK 3079.02: 2 NO contacts

IK 3079.12: 2 changeover contacts

IK 3079.16, IK 3079.16/103: 1 NC and 1 NO contact

Response time: ≤ 8 ms

Release time: ≤ 15 ms

Contact type: Spring contact

Nominal output voltage: AC 10 V ... AC 400 V

Thermal current I_{th} : max. 8 A or 2 x 5 A simultaneous

Switching capacity
 to AC 15:

NO contact:	3 A / AC 230 V	IEC/EN 60 947-5-1
NC contact:	1 A / AC 230 V	IEC/EN 60 947-5-1

Electrical life
 to AC 15 at 1 A, AC 230 V: $\geq 2.5 \times 10^5$ switching cycles

Electrical life
 to AC 15 at 10 A, AC 230 V: $\geq 10^6$ switching cycles IEC/EN 60 947-5-1

Permissible switching frequency: max. 10 switching cycles / s

Switching capacity
 min. / max.: 3 VA / 2 000 VA
 or 2 x 1250 VA simultaneous
 3 W / 200 W

Mechanical life: $\geq 50 \times 10^6$

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range:		
IK 3079:	- 20 ... + 55 °C	
IK 3079/103:	- 20 ... + 85 °C	
Clearance and creepage distances		
rated impuls voltage / pollution degree		
Input/Output:	4 kV / 2	IEC 60 664-1
Contacts:	2.5 kV / 2	IEC 60 664-1
	only for 1-phase systems (same phase)	

EMC

Electrostatic discharge:	8 kV (air) IEC/EN 61 000-4-2
HF-irradiation:	10 V / m IEC/EN 61 000-4-3
Fast transients:	4 kV IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	2 kV IEC/EN 61 000-4-5
between wire and ground:	4 kV IEC/EN 61 000-4-5
Interference suppression:	Limit value class B EN 55011

Degree of protection:

Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Housing:	Thermoplastic with V0-behaviour according to UL subject 94	

Vibration resistance:

	Amplitude 0.35 mm
	frequency 10 ... 55 Hz IEC/EN 60 068-2-6

Climate resistance:

	Humid heat IEC/EN 60 068-1
	EN 50 005

Terminal designation:

	2 x 2.5 mm ² solid or
	2 x 1.5 mm ² stranded ferruled
	DIN 46 228-1/-2/-3/-4

Wire connection:

	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1
	DIN rail IEC/EN 60 715

Wire fixing:

	60 g
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Mounting:

	60 g
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Weight:

	60 g
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Dimensions

Width x height x depth:	17.5 x 89 x 58 mm
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Standard Type

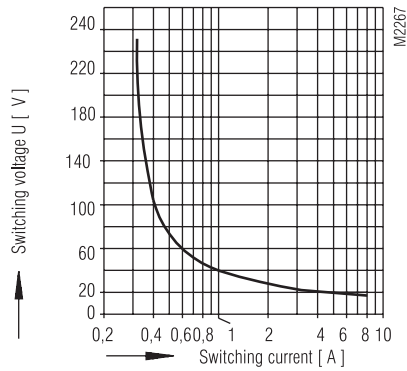
IK 3079.16 AC/DC 24 V	
Article number:	0041187
• Temperature range:	- 20 ... + 55 °C
• Output:	1 NC, 1 NO contact
• Nominal voltage U _N :	AC/DC 24 V
• Width:	17.5 mm
IK 3079.16/103 DC 24 V	
Article number:	0053851
• Temperature range:	- 20 ... + 85 °C
• Output:	1 NC, 1 NO contact
• Nominal voltage U _N :	AC/DC 24 V
• Width:	17.5 mm

Ordering Example

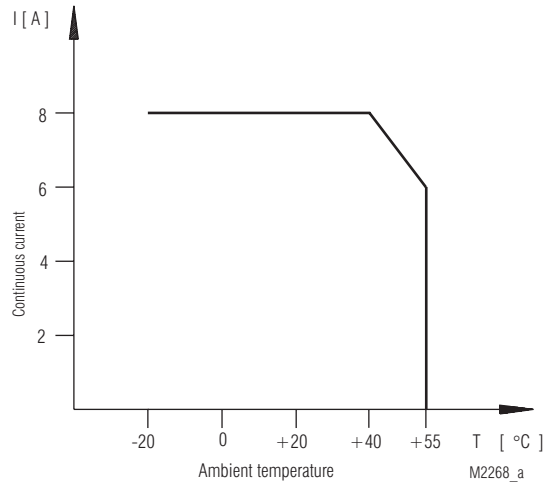
IK 3079	.16	AC/DC 24 V	50 / 60 Hz	
				Nominal frequency
				Nominal voltage
				Contact
				Type

IK 3079	.16 / 103	DC 24 V	50 / 60 Hz	
				Nominal frequency
				Nominal voltage
				Temperature range:
				- 20 ... + 85 °C
				Contact
				Type

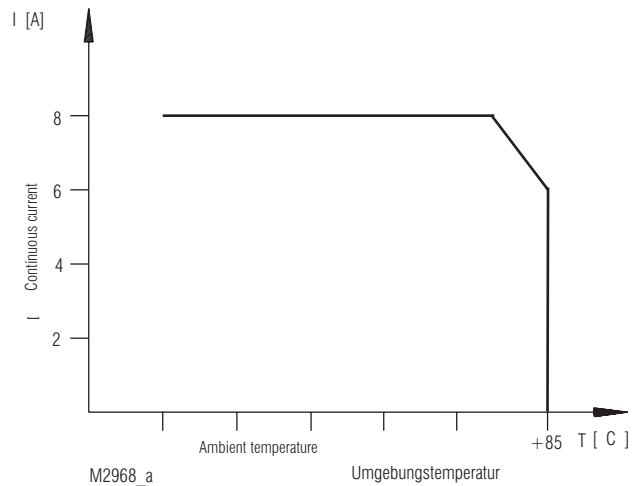
Characteristics



Limit curve for arc-free operation under ohmic load



IK 3079: Continuous current limit curve as a function of the ambient temperature



IK 3079/103: Continuous current limit curve as a function of the ambient temperature