



Safety controllers Standstill Monitor MOC3ZA

MOC3ZA-KAZ33D3



Model Name > [MOC3ZA-KAZ33D3](#)
Part No. > [6044981](#)



at a glance

- Standstill monitoring by means of residual voltage measurement
- 3 normally open and 1 normally closed positively guided safety contacts
- 2 application diagnostic outputs for semiconductors
- 1 application diagnostic output normally open
- PL e (EN ISO 13849), SIL3 (IEC 61508), SILCL 3 (EN 62061)
- Maximum motor supply voltage 690 V
- Adjustable voltage threshold and standstill period

Your benefits

- Quick mounting and installation thanks to the lack of additional wiring requirements
- Simple commissioning with a screwdriver
- Easy to retrofit as the subsequent mounting of sensors is not necessary



Safety-related parameters

Safety integrity level:	SIL3 (IEC 61508), SILCL3 (EN 62061)
Category:	Category 4 (EN ISO 13849)
Stop category:	1 (EN 60204)
Performance level:	PL e (EN ISO 13849-1)
PFHd:	4.1 * 1E-8 (EN ISO 13849-1)
TM (mission time):	20 a (EN ISO 13849-1)

Electrical data

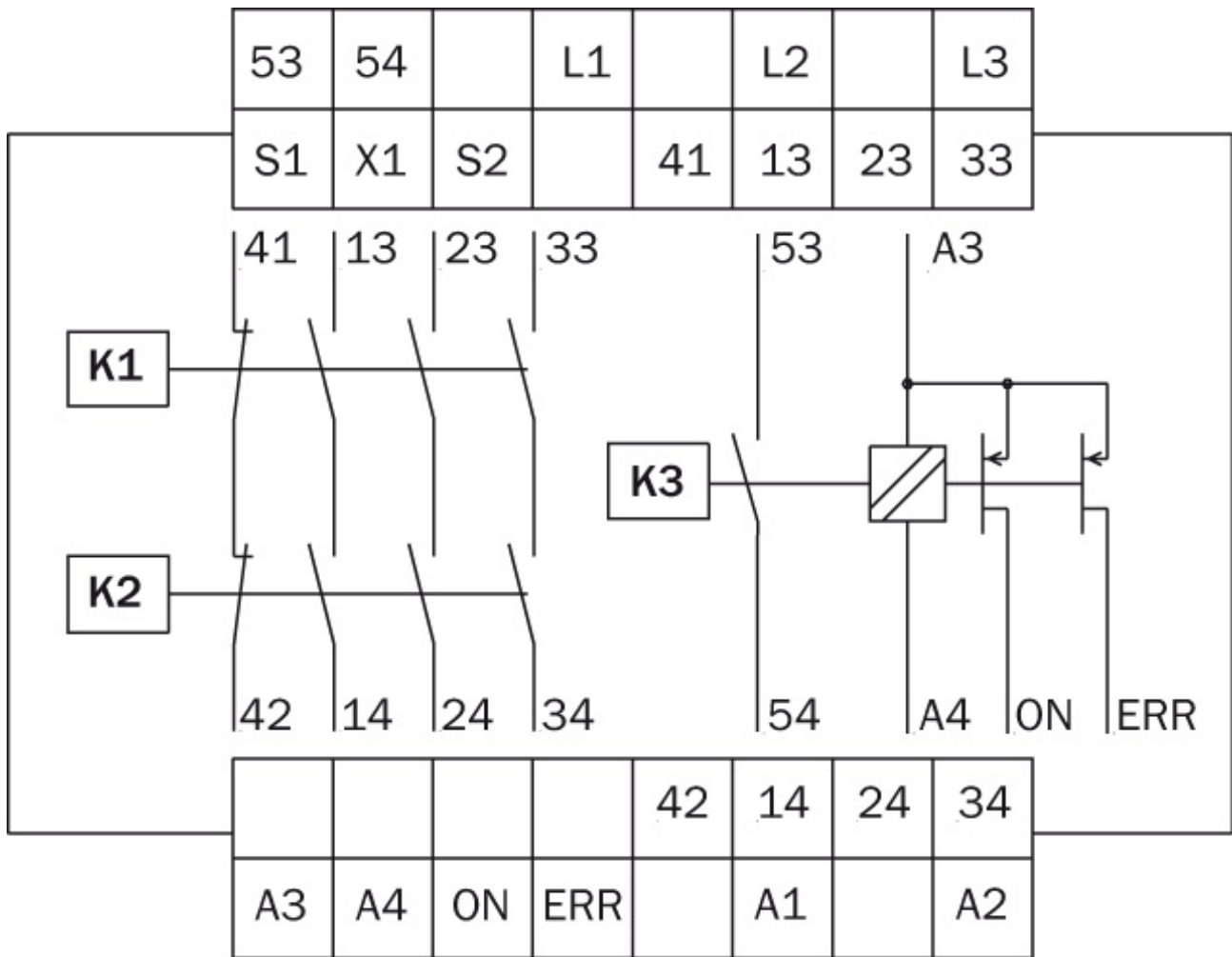
Supply voltage (A1/A2):	24 V DC (21.6 V DC ... 28.8 V DC)
Maximum power consumption (A1/A2):	≤ 4 W
Residual ripple (A1/A2):	≤ 10 %
Supply voltage semiconductor diagnostic outputs (A3/A4):	24 V DC (11 V DC ... 30 V DC)
Residual ripple (A3/A4):	≤ 10 %
Measurement inputs:	L1/L2/L3
Measured/motor voltage:	690 V AC
For UL 508 applications only:	600 V AC
Voltage threshold Uan:	20 mV ... 400 mV, adjustable
Standstill time ts:	0.2 s ... 6 s, adjustable
Hysteresis (for detection of running motor):	100 %

Response time:	100 ms
Safety outputs:	Normally open contact (13/14, 23/24, 33/34)
Positively guided N/C contacts:	Normally closed contact (41/42)
Contact configuration (safety contacts):	3 contacts NO, 1 contact NC
Contact type:	Relay, positively guided
Nominal switching voltage:	250 V AC
Switching capacity in accordance with AC 15:	N/C: 2 A/230 V AC (EN 60947-5-1), N/O: 3 A/230 V AC (EN 60947-5-1)
Switching capacity in accordance with DC 13:	2 A/24 V DC (EN 60947-5-1)
Maximum switching frequency:	1,200 /h
Contact service life at 230 V/5 A (AC) $\cos \varphi = 0.5$:	$\geq 2 \cdot 10^5$ switching operations
Mechanical life:	$\geq 50 \cdot 10^6$ switching operations
Semiconductor application diagnostics outputs (ON, ERR):	Electrically isolated supply via A3/A4, $I_{max} = 100$ mA (short-circuit protected), ON for Release, ERR for Error
Signal contacts 53/54 (normally open contact):	3 A/250 V AC G. P.

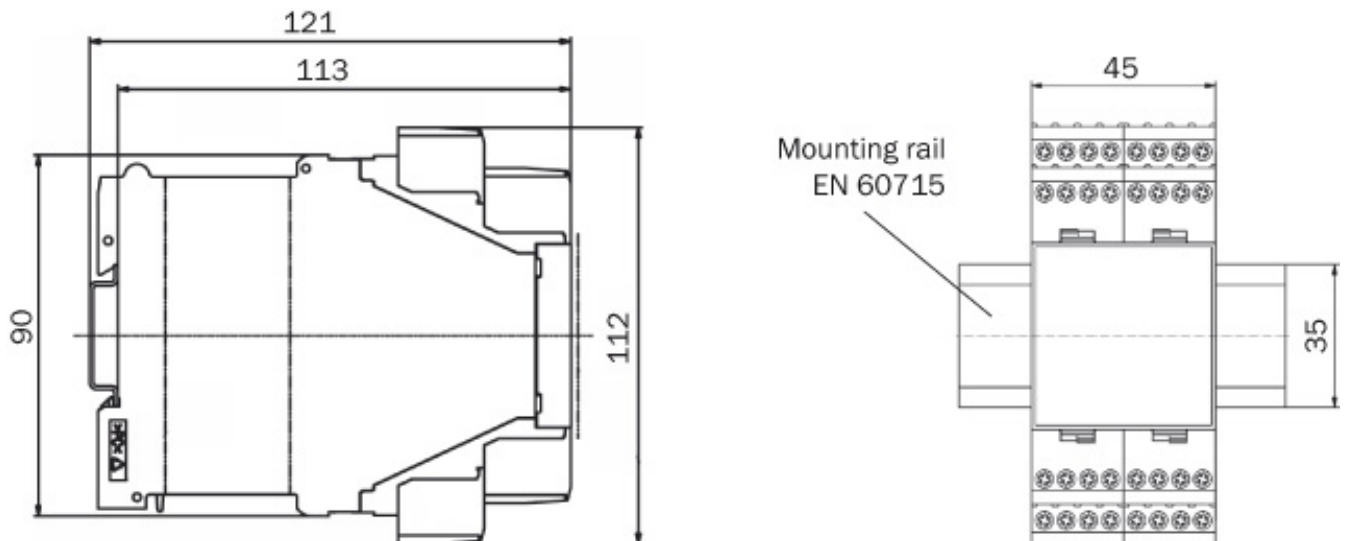
Ambient data

Protection class according to IEC 60529::	IP 40
Protection class standard:	EN/IEC 60529
Enclosure rating terminals:	IP 20
Ambient operating temperature:	-25 °C ... 60 °C
Storage temperature:	-40 °C ... 75 °C
Climate conditions according to:	25/060/04 (EN 60068-1)
Electromagnetic compatibility (EMC):	Class B
Vibration resistance:	10 Hz ... 55 Hz (EN 60068-2-6)
Vibration resistance amplitude:	0.35 mm
Connection type:	Cable gland
Connection type:	Plug-in screw-type terminals
Connection conductor cross-section:	0.5 mm ² ... 2.5 mm ² , 0.5 mm ² ... 2.5 mm ²
Dimensions (W x H x D):	45 mm x 112 mm x 121 mm
Weight:	400 g

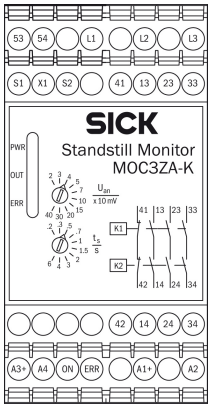
Connection diagram



Dimensional drawing



Device overview and connections



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