



# Safety controllers Speed Monitor MOC3SA

MOC3SA-AAB44D31



**Model Name** > [MOC3SA-AAB44D31](#)  
**Part No.** > [6034246](#)



**at a glance**

- Zero-speed and drive monitoring
- 4 safe semiconductor outputs
- PL e (EN ISO 13849), SIL3 (IEC 61508), SILCL3 (EN 62061)
- Maximum input frequency of 2 kHz
- Adjustable monitoring limit/monitoring frequency from 0.1 to 9.9 Hz or 0.5 to 99 Hz
- 2 application diagnostic outputs for failure and status display
- Diagnostic LEDs

**Your benefits**

- Easy commissioning -- using only a screwdriver - reduces installation time
- Tool backup using the Flexi Soft Designer and the Flexi Classic Configurator
- Additional HTL encoder evaluation
- Cascading of units is possible



**Safety-related parameters**

Safety integrity level:	SIL3 (IEC 61508), SILCL3 (EN 62061)
Stop category:	0 (EN 60204)
Performance level:	PL e (EN ISO 13849-1)
PFHd:	5.0 * 1E-10 (EN ISO 13849-1)
TM (mission time):	20 a (EN ISO 13849-1)

**Electrical data**

Supply voltage:	24 V DC (19.2 V DC ... 30 V DC)
Power consumption:	3 W
Protection class:	III
Ripple:	3 Vpp <sup>1)</sup>
Switch-on time:	70 ms
Input voltage HIGH:	13 V ... 30 V
Input voltage LOW:	-5 V ... 5 V
Input current HIGH:	2.4 mA ... 3.8 mA
Input current LOW:	-2.5 mA ... 2.1 mA
Power down time:	70 ms
Grenzfrequenz:	2 kHz <sup>2)</sup>
Frequenzänderung:	21 kHz/s

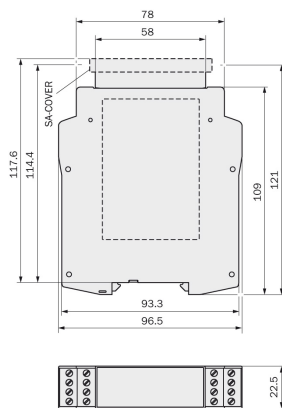
Ansprechzeit bei Drehzahlüberschreitung:	1 s ... 10 s, 100 ms ... 1,000 ms, 10 ms ... 100 ms
Output voltage:	18.4 V ... 30 V
Maximum output current (X1/X2):	120 mA
Output current (Q1, Q2, Q3, Q4):	2 A <sup>3)</sup>
Total current:	4 A <sup>4)</sup>

1) Within the limits of  $V_S$  <sup>2) 3) 4)</sup>

### 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 ... 55 °C
Storage temperature:	-25 °C ... 70 °C
Air humidity:	10 % ... 95 %
Climate conditions according to:	EN 61131-2
Electromagnetic compatibility (EMC):	Class A (EN 61131-2)
Vibration resistance:	5 Hz ... 500 Hz (EN 60068-2-64)
Connection type:	Cable gland
Connection type:	Plug-in spring terminals
Connection conductor cross-section:	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> , 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> , 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> , 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Dimensions (W x H x D):	22.5 mm x 96.5 mm x 120.8 mm
Weight:	180 g

### Dimensional drawing



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