

Safety controllers Speed Monitor MOC3SA

MOC3SA-BAB43D31



Model Name > [MOC3SA-BAB43D31](#)
Part No. > [6034247](#)

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 ¹⁾
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 ²⁾
Frequenzänderung:	21 kHz/s

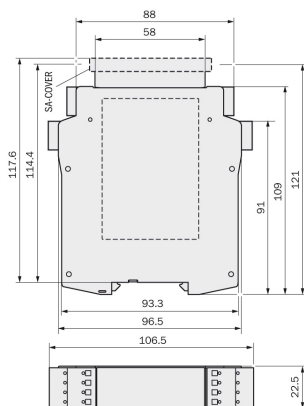
Ansprechzeit bei Drehzahlüberschreitung:	1 s ... 10 s, 100 ms ... 1,000 ms, 10 ms ... 100 ms
Output voltage:	18.4 V ... 30 V
Maximum output current (X1/X2):	120 mA
Output current (Q1, Q2, Q3, Q4):	2 A ³⁾
Total current:	4 A ⁴⁾

1) Within the limits of V_S 2) 3) 4)

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 screw-type terminals
Connection conductor cross-section:	0.14 mm ² ... 2.5 mm ² , 0.14 mm ² ... 0.75 mm ² , 0.25 mm ² ... 2.5 mm ² , 0.25 mm ² ... 0.5 mm ²
Dimensions (W x H x D):	22.5 mm x 96.5 mm x 120.8 mm
Weight:	180 g

Dimensional drawing



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com