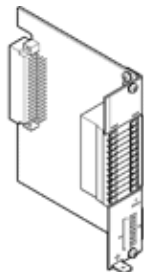# Safety module
CAMC-G-S3
Part number: 1501331

FESTO

One plug-in module CAMC-DS-M1, CAMC-G-S1 or CAMC-G-S3 is
required in order to operate the motor controller CMMP-AS-…-M3.

Data sheet

Feature	Value
Nominal DC voltage, logic power supply	24 V
Nominal operating voltage DC	24 V
Nominal current, logic supply	0.15 A
Permissible range, logic voltage	± 20 %
Current consumption, logic power supply without clamping brake	0.2 A
Short circuit strength	Yes, exception: contact C1/C2
Acceptable current load at 40°C	0.2 A
Protection (short circuit)	No
Design of the digital output	Potential-free signal contact 3 safe, 2-channel semiconductor outputs
Number of digital logic inputs	10
Digital outputs, switching logic	Semiconductor outputs: parameterisable PNP (positive switching) 2-channel equivalent/antivalent
Dimensions W x L x H	112,2 mm x 99,1 mm x 28,7 mm
Product-specific LED display	Error (red) Normal operation (green) Safe state (yellow)
Safety function	Safe brake control (SBC) Safe speed range (SSR) Safe speed monitor (SSM) Safe torque off (STO) Safely-limited speed (SLS) Safe operating stop (SOS) Safe stop 1 (SS1) Safe stop 2 (SS2)
Probability of Failure per Hour in [1/h].	9.5E-09
Proof test interval	20 a
Hardware fault tolerance	1
SFF Safe Failure Fraction	99.5 %
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in SRP/CS up to SIL 3 (high demand)
Safety Integrity Level (SIL)	Safe stop 2 (SS2)/SIL 3 Safe stop 1 (SS1)/SIL 3 Safe brake control (SBC)/SIL 3 Safely limited speed (SLS)/SIL 3 Safe operating stop (SOS)/SIL 3 Safe Speed Monitor (SSM)/SIL 3 Safe Speed Range (SSR)/SIL 3 Safe torque off (STO)/SIL 3
Performance level (PL)	Safe brake control (SBC)/category 4, Performance Level e Safely limited speed (SLS)/category 3, Performance Level e Safe operating stop (SOS)/category 3, Performance Level e Safe stop 1 (SS1)/category 3, Performance Level e Safe stop 2 (SS2)/category 3, Performance Level e

Feature	Value
	Safe speed monitor (SSM)/category 3, Performance Level e
	Safe speed range (SSR)/category 3, Performance Level e
	Safe Torque off (STO)/Category 4, Performance Level e
Diagnostic coverage	97.5 %
Certified for safety functions to ISO 13849 (PL)	Product can be used in SRP/CS up to category 4, PL e
Authorization	TÜV
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	according to EU machines guideline
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK instructions for machines
	To UK RoHS instructions
Certificate issuing department	TÜV Rhld 01/205/5165.02/19
	TÜV Rh. UK 01/205U/5165.00/22
PWIS conformity	VDMA24364 zone III
Storage temperature	-25 ... 55 °C
Relative air humidity	5 - 90 %
	non-condensing
Protection class	IP20
	in assembled condition
Ambient temperature	0 ... 40 °C
Product weight	220 g
Mounting type	Plug-in module for CMMP-AS...-M3
Materials note	Conforms to RoHS
Assembly position	Any
Wire ends	Wire end ferrule
Terminal cross-section	0.25 ... 0.5 mm2
Electrical connection	Screwed terminal
	Plug straight
Display	LED green/yellow/red
Control elements	DIP switches
Specification, logic input	IEC 61131-2, type 3
Logic input characteristics	4 safe, 2-channel inputs
	Equivalent/antivalent switching
	Test pulses configurable
	Function configurable
	6 safe, 1-channel inputs
	Test pulses configurable
Logic input working range	13 ... 28.8 V
Max. nominal input current	0.015 A
Debouncing time, inputs	0.3 ms
Current-carrying capacity per output	50 mA
Max. current, digital logic outputs	50 mA
Fuse protection, output	Short-circuit and cross-circuit monitoring
Minimum cycle time	2 ms
Parameters configuring	Via SafetyTool