



Catalog #: 440C-CR30-22BBB [Mais vendido](#)

Guardmaster 440C-CR30 safety relay

Lifecycle status: ACTIVE

Technical Specifications

Electrical

Number of outputs, safety related, undelayed, with contact	0
Number of outputs, safety related, delayed, with contact	0
Number of outputs, signalling function, undelayed, with contact	0
Number of outputs, safety related, undelayed, semiconductors	10
Number of outputs, safety related, delayed, semiconductors	10
Number of outputs, signalling function, undelayed, semiconductors	10
Number of outputs, signalling function, delayed, semiconductors	10
With start input	Yes
With muting function	Yes
Voltage type for actuating	DC
Rated control supply voltage at DC	24 V
Model	Basic device
Type of electric connection	Screw connection
Evaluation inputs	Other
Power consumption	5.28 W
Continuous output current	0.5 A @ terminals 12...19
Configurable logic	List function blocks like, two hand control
Wire size	0.2...2.5 mm ² (24...14 AWG) solid/stranded copper wire @

90 °C (194 °F) insulation maximum

Number of outputs, signalling function, delayed, with contact

0

With feedback circuit

Yes

Suitable for monitoring of magnetic switches

Yes

Suitable for monitoring of proximity switches

Yes

Suitable for monitoring of emergency-stop circuits

Yes

Suitable for monitoring of optoelectronic protection equipment

Yes

Suitable for monitoring of position switches

Yes

Suitable for monitoring of tactile sensors

Yes

Suitable for monitoring of valves

Yes

Surge output current

1 A

Surge output current duration

5 ms

Aggregate current of outputs per device, max

3 A

Other output

SWS output

Operating voltage

20.4 V

Certification

SIL according to IEC 61508

3

With approval according to UL

Yes

Stop category according to IEC 60204

2

Performance level according to EN ISO 13849-1

Level e

Type of safety according to IEC 61496-1

4

With approval for TUV

Yes

Mechanical

With detachable clamps

No

Rated control supply voltage at AC 50 Hz

0 V

Rated control supply voltage at AC 60 Hz

0 V

Enclosure type rating

IP20

Vibration

10...55 Hz, 0.35 mm (0.014 inch)

Shock

Shock proof, operating: 10 G (0.35 oz), 16 ms

Rail mounting possible

Yes

SIL Rating

Safety integrity level claim limit	3
Mode of operation	High demand mode
Category	up to 4
PFD	1.76E-03 (whole safety function)
Hardware fault tolerance	HFT = 1 (two channel system)
PFH	1.00E-08
Safe failure fraction	90 %
Safety related subsystems	Type B (use of programmable/complex components)

Environmental

Operating temperature	-5 °C
Emissions	Group 1, Class A
Relative humidity	90%
ESD immunity	6 kV contact discharges, 8 kV air discharges
EFT/B immunity	On ethernet port: ±1 kV @ 5 kHz
Surge transient immunity	On ethernet port: ±1 kV line-earth(CM)
Radiated RF immunity	10 V/m with 1 kHz sine-wave 80% AM from 80...2700 MHz 10 V/m with 200 Hz 50% pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz
Storage temperature	-40 °C
Conducted RF immunity	10V RMS with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz

Construction

Height	90 mm
Width	100 mm
Depth	80 mm

Performance Level

Performance level	up to e
Evaluation input	SWS input



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