

# Product datasheet

Specifications



## Easy TeSys control relay - 3 NO + 1 NC <= 690 V - 220 VAC

CAE31M5

### Main

Range	Easy TeSys
Range of product	Easy TeSys Control Relay
Product or component type	Control relay
Device short name	CAE
contactor application	Control circuit
Colour	Grey (RAL 7011)

### Complementary

Utilisation category	AC-14 AC-15
Pole contact composition	3 NO + 1 NC
[Ue] rated operational voltage	<= 690 V AC
Control circuit type	AC at 50 Hz
[Uc] control circuit voltage	220 V AC 50 Hz
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
[Ith] conventional free air thermal current	10 A (at 40 °C)
Irms rated making capacity	140 A at 690 V AC conforming to IEC 60947-5-1
[Icw] rated short-time withstand current	120 A - 500 ms 140 A - 100 ms
Associated fuse rating	10 A gG at 690 V conforming to IEC 60947-5-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-5-1
mounting support	Plate Rail
Connections - terminals	Screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end
Recommended tightening torque	1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
Control circuit voltage limits	Operational: 0.85...1.1 Uc at 50 Hz Drop-out: 0.3...0.6 Uc
Operating time	4...19 ms coil energisation and NC opening 12...22 ms coil energisation and NO closing 4...12 ms coil de-energisation and NC opening 6...17 ms coil de-energisation and NO closing
Mechanical durability	10 Mcycles

<b>Maximum operating rate</b>	180 cyc/mn
<b>Inrush power in VA</b>	70 VA 50 Hz (at 20 °C)
<b>Hold-in power consumption in VA</b>	8 VA 50 Hz (at 20 °C)
<b>Minimum switching voltage</b>	17 V
<b>Minimum switching current</b>	5 mA
<b>Non-overlap time</b>	1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact
<b>Insulation resistance</b>	> 10 MOhm
<b>Mechanical robustness</b>	Shocks control relay open: 7 Gn for 11 ms Shocks control relay closed: 10 Gn for 11 ms Vibrations control relay open: 1.5 Gn, 5...300 Hz Vibrations control relay closed: 3 Gn, 5...300 Hz
<b>Height</b>	74 mm
<b>Width</b>	45 mm
<b>Depth</b>	80 mm
<b>Net weight</b>	0.28 kg

## Environment

<b>Standards</b>	IEC 60947-5-1
<b>product certifications</b>	GOST
<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Protective treatment</b>	TH conforming to IEC 60068
<b>Ambient air temperature for operation</b>	-20...70 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Operating altitude</b>	3000 m without derating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	5.000 cm
<b>Package 1 Width</b>	7.700 cm
<b>Package 1 Length</b>	8.700 cm
<b>Package 1 Weight</b>	293.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	10.909 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

**Reach Regulation** [REACH Declaration](#)

**Eu Rohs Directive** Compliant  
[EU RoHS Declaration](#)

**China Rohs Regulation** [China RoHS declaration](#)  
Pro-active China RoHS declaration (out of China RoHS legal scope)

**Environmental Disclosure** [Product Environmental Profile](#)

**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

**Circularity Profile** [End of Life Information](#)

Offer Marketing Illustration

Product benefits / Features

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## Easy TeSys Control Relays



### Designed for the essential

Delivers the best balance between performance and budget without any compromise on quality



### Easy choice and application

Easier to install, order and understand, and operate with multi-standard screws



### Cost-effective

Provides a cost-effective solution to simple light duty applications



Offer Marketing Illustration

Product benefits / Features

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Easy TeSys  
Control Relays  
Range Accessories

Contactor Coil

Auxiliary contact block

Connection block

Terminal block

Suppressor module

The image displays a collection of accessories for Easy TeSys control relays. At the top left, a large relay unit is shown against a green circular background. Below it, five individual components are presented in a grid. Each component is accompanied by a label: 'Contactor Coil' (a black U-shaped component), 'Auxiliary contact block' (two black rectangular blocks with multiple terminals), 'Connection block' (a grey rectangular block with a large opening), 'Terminal block' (a black component with several screw terminals), and 'Suppressor module' (a white rectangular module with two gold-colored pins).

Offer Marketing Illustration

Product benefits / Features

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### Easy TeSys Control Relays

#### Technical Benefits



The image shows a Schneider Easy TeSys Control Relay, model CAE31M5. It is a compact, grey plastic relay with orange terminal covers. The front panel features four terminal pairs labeled 13 NO, 21 NC, 31 NC, and 43 NO on the top row, and 14 NO, 22 NC, 32 NC, and 44 NO on the bottom row. The Schneider logo and 'Easy TeSys Control' are printed on the side. The relay is shown against a green circular background.

- For demanding applications with standard operating rates until 3 cycles/second.
- Up to 10 million mechanical operation cycles
- Compact (45mm width), for clipping on 35mm DIN rail or fixing by screw.
- 3 combinations: 2NO/2NC, 3NO/1NC, 4NO
- Multi-standards certified (IEC, CCC, EAC) and Green Premium compliant (RoHs/Reach).

Technical Illustration

Assembly's dimensions

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