

# Product datasheet

Specifications



## Control relay, Easy TeSys Control, CAE, 2NO+2NC, <=690V, 110V AC 50Hz coil

CAE22F5

### 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-15 AC-14
Pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	<= 690 V AC
Control circuit type	AC at 50 Hz
[Uc] control circuit voltage	110 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 U <sub>c</sub> at 50 Hz Drop-out: 0.3...0.6 U <sub>c</sub>
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>Product weight</b>	0.28 kg

## Environment

<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-5-1 GB/T 14048.1 GB/T 14048.5 IS/IEC 60947-1 IS/IEC 60947-5-1
<b>Product certifications</b>	CB Scheme CCC CE EAC BIS
<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>	5.2 cm
<b>Package 1 Width</b>	7.5 cm
<b>Package 1 Length</b>	8.7 cm
<b>Package 1 Weight</b>	305 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm

<b>Package 2 Weight</b>	10080.32 g
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	576
<b>Package 3 Height</b>	115 cm
<b>Package 3 Width</b>	60 cm
<b>Package 3 Length</b>	80 cm
<b>Package 3 Weight</b>	179.32 kg

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	320 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	316 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	<a href="#">Compliant</a>
REACH Regulation	<a href="#">Free of Substances of Very High Concern above the threshold</a>

### Use Longer




### Lifetime extension

Repair	No
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### Use Again



### Repack and remanufacture

Recyclability potential, in %	14
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features

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## Easy TeSys Control Relays

### Technical Benefits



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).

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

Technical Illustration

Assembly's dimensions

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