

# Product datasheet

Specifications



## EasyPact TVS control relay - 2 NO + 2 NC $\leq$ 690 V - 220 VAC

CAE22M5

### Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Control relay
Device short name	CAE
Contactors application	Control circuit
Colour	Grey (RAL 7011)

### Complementary

Utilisation category	AC-14 AC-15
Pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	$\leq$ 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	Rail Plate
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

<b>Mechanical durability</b>	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>	5.2 cm
<b>Package 1 Width</b>	7.5 cm
<b>Package 1 Length</b>	8.7 cm
<b>Package 1 Weight</b>	291.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	10.08 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	576

Package 3 Height	115.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	179.32 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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## Recommended replacement(s)