AS168X Add-on modules

Manual Motor Controller / Circuit Breaker for Equipment thermal-magnetic



Auxiliary contact



Signal contact



Relay trip module

See below:
Approvals and Compliances

Description

- DIN-Rail Mounting
- Auxiliary contact module
  Each auxiliary contact module contains one contact, either normally open or normally closed
- Signal contact module
  Signal contact modules are linked internally with the protected poles but not linked at the handles. Contacts are actuated by a fault condition at the protected poles, not by manual operation of the CBE
- Relay trip module
  The relay trip module can be used for remote tripping of the adjacent poles by applying a voltage to the module's terminal

Applications

- Industrial appliances

References

Last order possibility: 31.08.2018
Last delivery date: 30.09.2018

Weblinks

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Product News

Technical Data

Ratings	AC 277 V / 6 A (50/60 Hz) DC 125 V / 1 A DC 50 V / 6 A
Conditional short circuit capacity	IEC: Inc, PC1, AC 277 V: 1 kA
Dielectric Strength	50 Hz: > 2 kV Impulse 1.2/50 µs
Insulation Resistance	> 5 MΩ
Endurance typical	mechanical: 50000 switching cycles IEC 60947-5-1 AC : 10 x Ir , p.f. = 0.3 : DC : 1 x Ir , L/R = 0.3 s : 6050 switching cycles AC : 26 A / 2.6 A , p.f. = 0.35 : DC : 1.1 A / 1.1 A , L/R = 0.3 s : 6000 switching cycles

Overload	AC: min. 10 trips @ 10 x Ir, p.f. = 0.3 DC: min. 50 trips @ 1.1 x Ir, L/R = 0.3 s
Ambient temperature	-20 °C to 60 °C
Vibration Resistance	± 0.75 mm @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 10 G @ 60 - 500 Hz acc. to IEC 60068-2-6, test Fc
Shock Resistance	30 G / 18 ms acc. to IEC 60068-2-27, test Ea
Degree of Protection	from front side IP 20 acc. to IEC 60529
Weight	22 - 49 g

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: AS168X

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40021845
	UL Approvals	UL	UL File Number: E216629 / E71572
	UL Approvals	UL	UL File Number: E216629 / E71572

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Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60947-5-1	Circuit-breakers for equipment (CBE)
UL	Designed according to	UL 508	Standard for Supplementary Protectors for Use in Electrical Equipment
UL	Designed according to	UL 508	Standard for Industrial Control Equipment
CSA Group	Designed according to	CSA C22.2	Supplementary Protectors

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

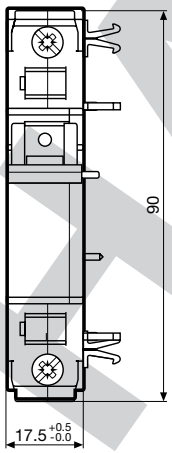
Compliances

The product complies with following Guide Lines

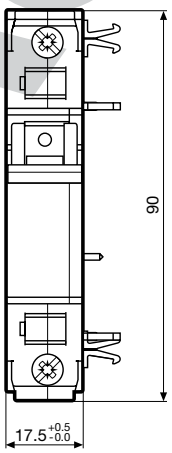
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
50	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

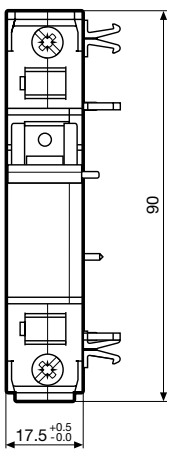
AS168X-ACBH.



AS168X-ACBS.

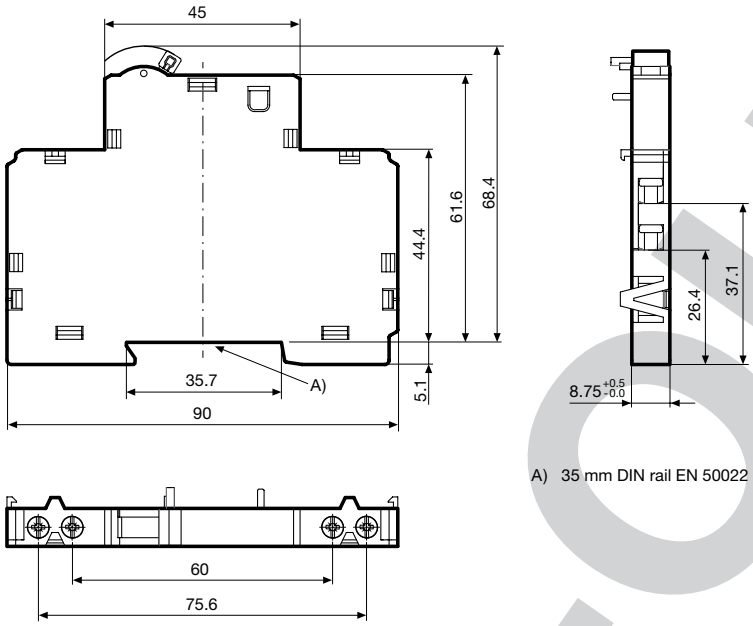


AS168X-ACBA.



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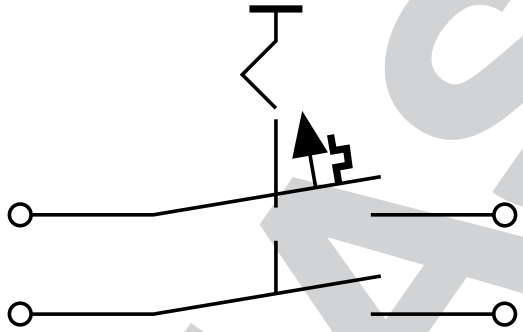
AS168X-Auxiliary contact



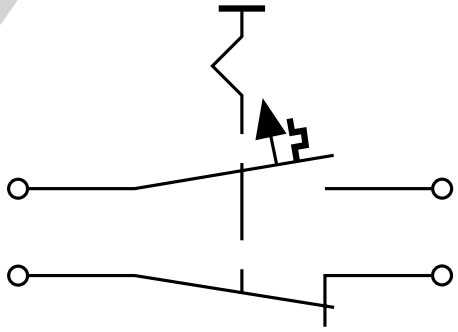
A) 35 mm DIN rail EN 50022

Diagrams

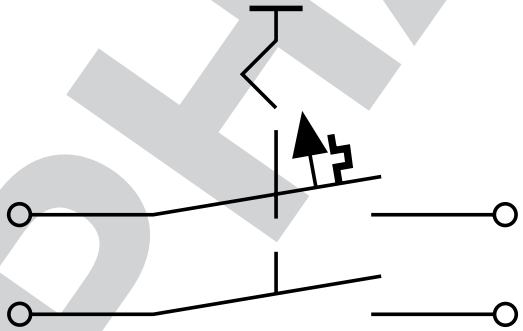
AS168X-CB1... / AS168X-ACBH1



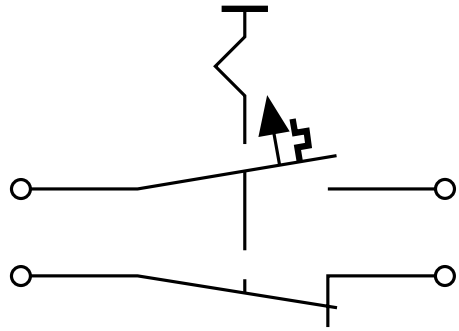
AS168X-CB1... / AS168X-ACBH2



AS168X-CB1... / AS168X-ACBS1



AS168X-CB1... / AS168X-ACBS2



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Approvals Relay trip module

Symbol	Standard	Rated voltage AC	Rated voltage DC
	UL 508 CSA C22.2 no. 14	-	-
	UL 1077	up to 277 V	up to 240 V
	CSA C22.2 no. 235	-	-
	EN 60934	-	-
	GB 17701	-	-

Approvals Auxiliary contact

Symbol	Standard	Rated current AC	Rated voltage AC	Rated current DC	Rated voltage DC
	UL 508 CSA C22.2 no. 14	6 A	277 V	1 A 6 A	125 V 50 V
	UL 1077	6 A	277 V	1 A 6 A	125 V 50 V
	CSA C22.2 no. 235	-	-	-	-
	EN 60934	6 A (Ac-15)	277 V	1 A (DC-12) 0.5 A (DC-13) 6 A (DC-12)	125 V 125 V 50 V
	GB 17701	-	-	-	-

Approvals Signal contact

Symbol	Standard	Rated current AC	Rated voltage AC	Rated current DC	Rated voltage DC
	UL 508 CSA C22.2 no. 14	6 A	277 V	1 A 6 A	125 V 50 V
	UL 1077	6 A	277 V	1 A 6 A	125 V 50 V
	CSA C22.2 no. 235	-	-	-	-
	EN 60934	6 A (AC-15)	277 V	1 A (DC-12) 0.5 A (DC-13) 6 A (DC-12)	125 V 125 V 50 V
	GB 17701	-	-	-	-

Add-on modules

Functional auxiliary contact	Type H1 assumes the same contact position Type H2 assumes the opposite position			Actuation of the contact is determined by the condition of the handle position of the adjacent poles.
Functional signal contact	Type S1 assumes the same contact position Type S2 assumes the opposite position			The signal contact operates due to a thermal magnetic tripping and must be reset by hand.
Function of relay trip module	Type A1 A2 A3 A4 A5	Voltage range AC/DC 5 - 12 V 10 - 24 V 20 - 48 V 40 - 110 V 90 - 240 V	Impedance at 50 Hz 1.1 Ω 4.7 Ω 16 Ω 63 Ω 395 Ω	When voltage is applied across the terminals, remote tripping takes place by a self interrupting magnetic system. Trip delay time 8 - 16 ms.
Maximum Pole combination	The maximum allowed number of poles/modules is 6, but in any combination, only 1 or 2 add-on modules are permitted			
	1 or 2 add-on modules only 1 add-on module 1 or 2 add-on modules	+ 1 or 2 or 3 pole + 4 pole + 4 pole	+ switched neutral + switched neutral	

The time-current-curves are not relevant for the add-on modules.

Config. Code

AS168X-ACB H1 S2 A3 LOA

The characters are placeholders for the correspondingly keys of selections from the key tables.

AS168X-ACB **H1** S2 A3 LOA = Auxiliary contact

Auxiliary contact	Configuration key
Auxiliary contact synchronized	H1
Auxiliary contact opposited	H2

AS168X-ACB H1 **S2** A3 LOA = Signal contact

Signal contact	Configuration key
Signal contact synchronized	S1
Signal contact opposited	S2

AS168X-ACB H1 S2 **A3** LOA = Relay trip module

Relay trip module	Configuration key
Relay trip module AC/DC 5 -12 V	A1
Relay trip module AC/DC 10 -24 V	A2
Relay trip module AC/DC 20 - 48 V	A3
Relay trip module AC/DC 40 -110 V	A4
Relay trip module AC/DC 90 -240 V	A5

AS168X-ACB H1 S2 A3 **LOA** = Relay trip module

Accessories	Configuration key
Lockout attachment	LOA

Variants

Auxiliary contact	Signal contact	Relay trip module	Accessories	Config. Code	Order Number
Auxiliary contact synchronized				AS168X-ACBH1	4420.0163
Auxiliary contact opposited				AS168X-ACBH2	4420.0176
		Relay trip module AC/DC 20 - 48 V		AS168X-ACBA3	4420.0189
		Relay trip module AC/DC 10 -24 V		AS168X-ACBA2	4420.0340
	Signal contact synchronized			AS168X-ACBS1	4420.0414
	Signal contact opposited			AS168X-ACBS2	4420.0415
			Lockout attachment	AS168X-ACBLOA	4420.0799

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging Unit 1 Pcs

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19.02.2018

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.