

Manual Motor Controller / Circuit Breaker for Equipment thermal-magnetic



Auxiliary contact



Signal contact



Relay trip module



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

Standards

- Approval Reference Type: AS168X
- VDE Certificate Number: IEC 60947-5-1
- UL File Number: UL 508
- CSA File Number: CSA C22.2

Applications

- Industrial appliances

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

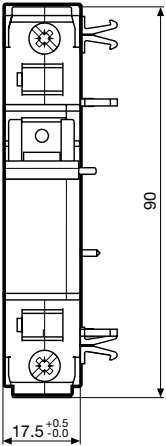
Technical Data

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	50Hz: > 2kV
	Impulse 1.2/50 μ s
Insulation Resistance	> 5 M Ω
Endurance typical	mechanical: 50000 switching cycles
	IEC 60947-5-1
	AC : 10 x I _r , p.f. = 0.3 :
	DC : 1 x I _r , L/R = 0.3 s :
	6050 switching cycles
	UL 508
	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

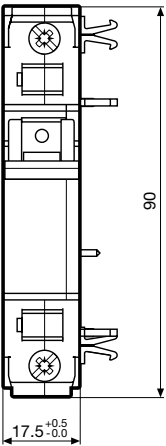
Overload	AC: min. 10 trips
	@ 10 x I _r , p.f. = 0.3
	DC: min. 50 trips
	@ 1.1 x I _r , L/R = 0.3 s
Ambient temperature	-20°C to 60°C
Vibration Resistance	± 0.75 mm @ 10 - 60 Hz
	acc. to IEC 60068-2-6, test Fc
	10 G @ 60 - 500 Hz
	acc. to IEC 60068-2-6, test Fc
Shock Resistance	30 G / 18ms
	acc. to IEC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

Dimension

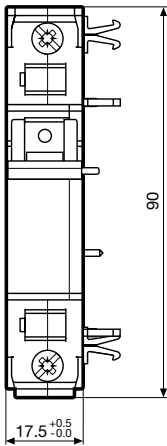
AS168X-ACBH.



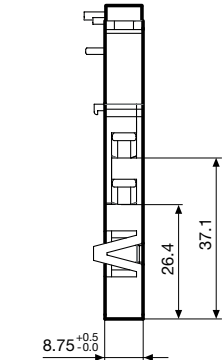
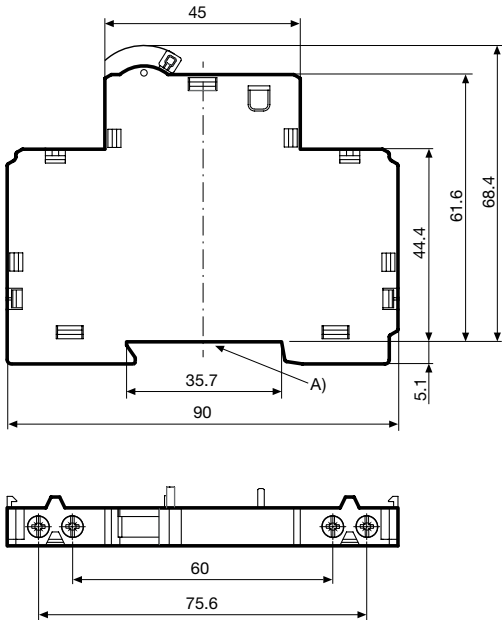
AS168X-ACBS.



AS168X-ACBA.



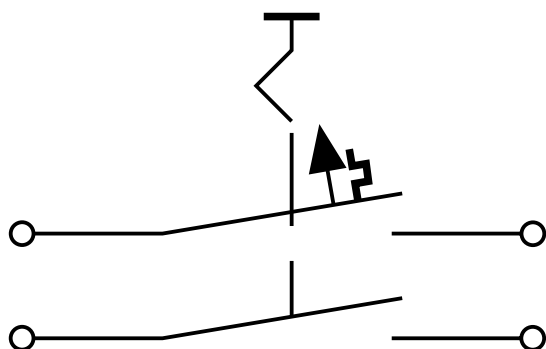
AS168X-Auxiliary contact



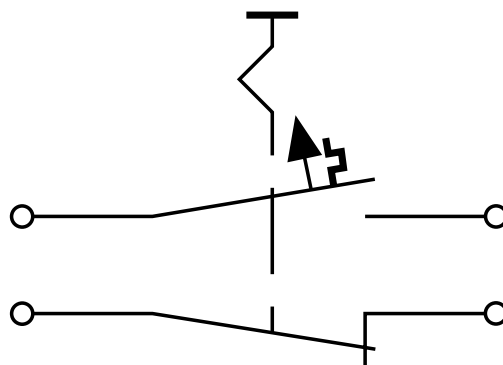
A) 35 mm DIN rail EN 50022

Diagrams

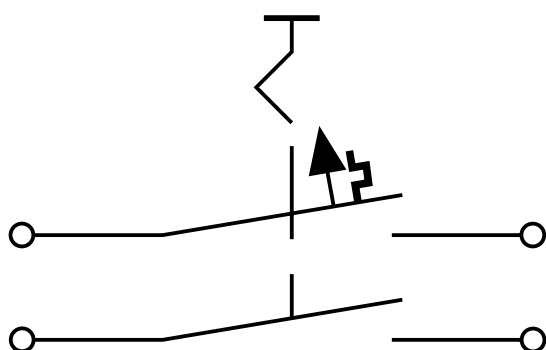
AS168X-CB1... / AS168X-ACBH1



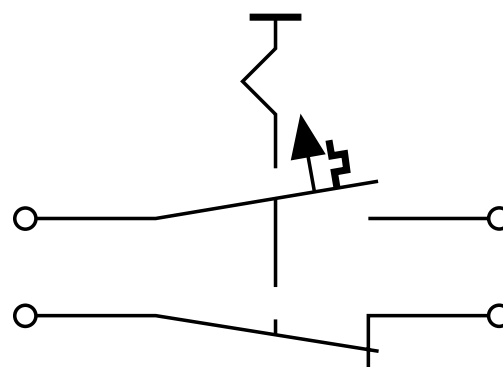
AS168X-CB1... / AS168X-ACBH2



AS168X-CB1... / AS168X-ACBS1



AS168X-CB1... / AS168X-ACBS2



Approvals Relay trip module

Symbol	Standard	Rated voltage AC	Rated voltage DC
	UL 508 CSA C22.2 no. 14	-	-
	UL 1077 CSA C22.2 no. 235	up to 277 V	up to 240 V
	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 CSA C22.2 no. 235	6 A	277 V	1 A 6 A	125 V 50 V
	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 CSA C22.2 no. 235	6 A -	277 V -	1 A 6 A -	125 V 50 V -
	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	+ 1 or 2 or 3 pole	+ switched neutral	
	only 1 add-on module	+ 4 pole	+ switched neutral	
	1 or 2 add-on modules	+ 4 pole		

Time-Current-Curves

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: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging Unit 1 Pcs