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AS168XAC1

Manual Motor Controller / Circuit Breaker for Equipment thermal-magnetic, 1 pole

Description
- Thermal-magnetic circuit breaker
- High short circuit performance
- Availability of AC and DC in the same frame size
- DIN-Rail Mounting

Standards
- Approval Reference Type: AS168X
- IEC 60934
- UL508, UL1077
- CSA C22.2

Applications
- Industrial appliances

Weblinks
pdf datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, Distributor-Stock-Check, Detailed request for product, Product News

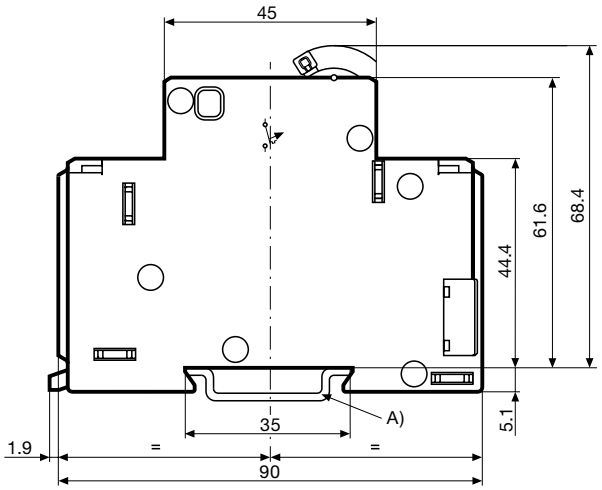
Technical Data

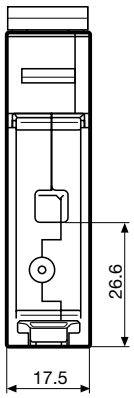
General data	
Rated Voltage AC	IEC : 240 V; 50/60 Hz UL/CSA : 277 V; 50/60 Hz
Rated Voltage DC	65 V
Rated current	0.5 - 52 A , see approbations
Conditional short circuit capacity IEC 60934	Icn: AC 240 V / DC 65 V: 5 kA (no fuse)
Conditional short circuit capacity UL 1077	Inc: AC 277 V: 10 kA (with fuse class H/J, 4x rated current (min. 15 A)) Icn: AC 125 V: 10 kA (no fuse) Icn: AC 277 V: 5 kA (no fuse) Icn: DC 65 V: 2 kA (no fuse)
Conditional short circuit capacity UL 508	Icn: AC 277 V: 5 kA (no fuse)
Degree of Protection	from front side IP 40 acc. to IEC 60529
Lifetime	1 x Ir : 6000 switching cycles
Dielectric Strength	50 Hz: > 2 kV Impulse 1.2/50 µs
Vibration Resistance	± 0.75 mm @ 5 - 57 Hz acc. to IEC 60068-2-6, test Fc 10 G @ 57 - 500 Hz acc. to IEC 60068-2-6, test Fc
Insulation Resistance	250/440 VAC > 5 MΩ
Shock Resistance	25 G / 10 ms acc. to IEC 60068-2-27, test Ea
Ambient temperature	-20 °C to 60 °C
Weight	100 - 130 g

Tripping Type	Positively trip free
Actuation Type	Manual ON/OFF
Permissible wire cross section	1.5 - 25 mm² / 16 - 4 AWG
Switched neutral	
Rated Voltage	AC 277 V
Rated current	AC/DC 65 A
Function	The switched neutral closes with manual closure of the poles and opens automatically with thermal magnetic tripping of the poles.
Add-on modules	
Add-on modules	Technical data for the additional module see separate data sheet

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

Dimension
AS168X 1 pole



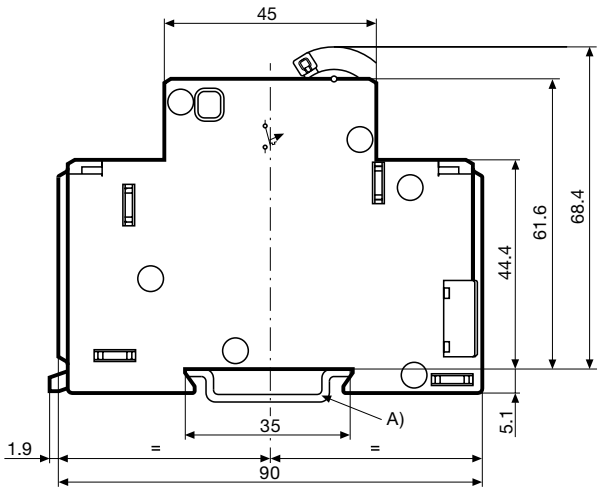


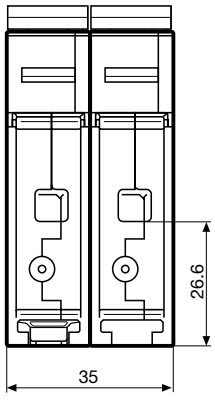
A) 35 mm DIN rail EN 50022

B) Max. torque

Wire crosssection	Max. torque
1.5 ... 10 mm²	2.5 Nm
16 ... 25 mm²	3.1 Nm
AWG #16 ... 8	20 ... 22 lb–in
AWG #6 ... 4	26 ... 28 lb–in

AS168X 1 pole and switched neutral pole





A) 35 mm DIN rail EN 50022

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1.5 ... 10 mm²	2.5 Nm
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AWG #16 ... 8	20 ... 22 lb–in
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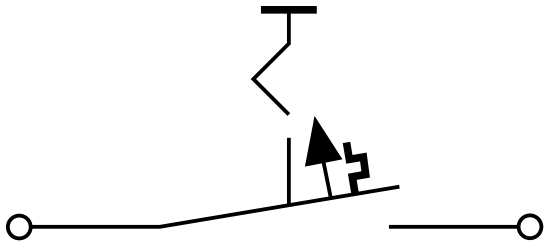
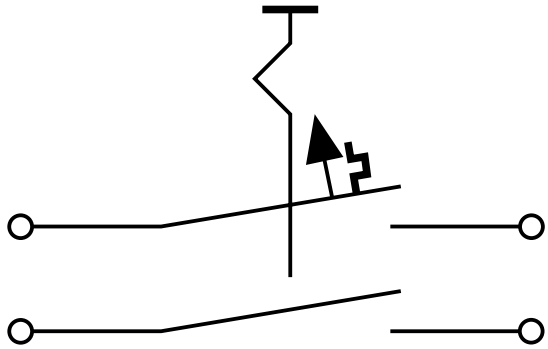
Diagrams

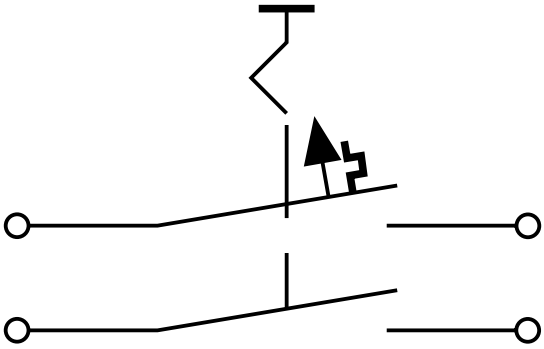
AS168X-CB1...



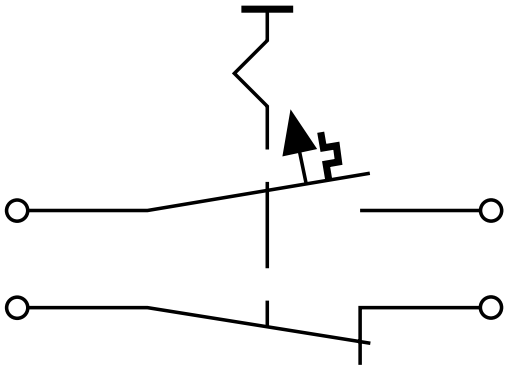
AS168X-CB1...N



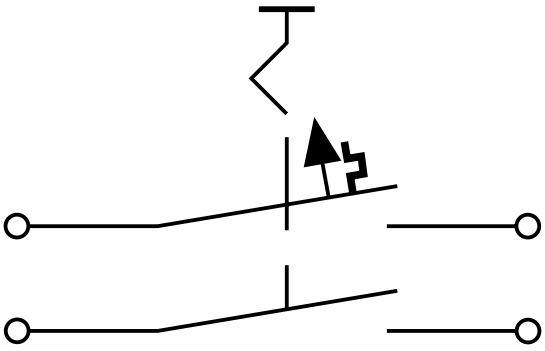
AS168X-CB1... / AS168X-ACBH1



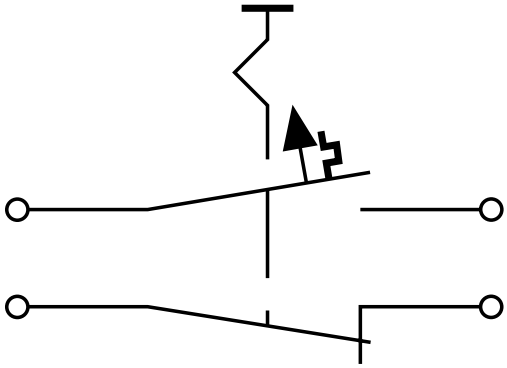
AS168X-CB1... / AS168X-ACBH2



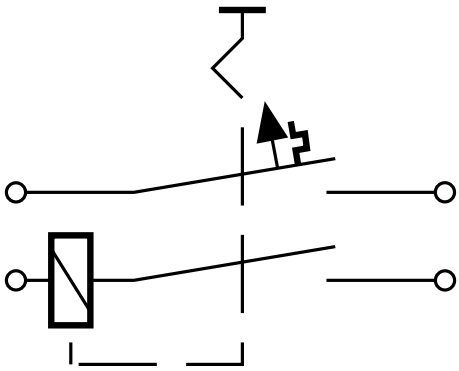
AS168X-CB1... / AS168X-ACBS1



AS168X-CB1... / AS168X-ACBS2



AS168X-CB1... / AS168X-ACBA



Symbol	Standard	Rated current	Rated voltage AC	Conditional short circuit capacity Icn	Rated voltage DC	Conditional short circuit capacity Icn
	UL 508 CSA C22.2 no. 14	0.5 - 52 A	277 V	5 kA	-	-
	UL 1077	0.5 - 40 A	240 V	10 kA	-	-
	CSA C22.2 no. 235	0.5 - 50 A	277 V 125 V	5 kA 10 kA	65 V	2 kA
	EN 60934	0.5 - 30 A	240 V	4.5 kA	65 V	4.5 kA
	GB 17701	-	-	-	-	-

Effect of ambient temperature

AC-breaker are calibrated for an ambient temperature of +40°C, DC-breakers for +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

Ambient temperature [°C]	Correction factor AC version	Correction factor DC version
-20	0.78	0.80
-5	0.82	0.87
0	0.83	0.90
+10	0.87	0.95
+23	0.91	1.00
+30	0.95	1.05
+40	1.00	1.10
+50	1.05	1.20
+60	1.11	1.30

Example DC version: Rated current = 10 A; Environmental temperature = 50 °C; --> Correction factor = 1.2; Resulting current = 12 A

Ampere-Horsepower

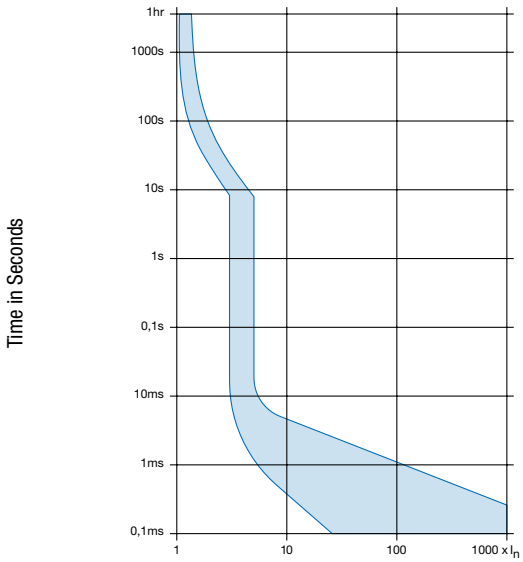
AS168X-CB	Motor Nameplate		Horsepower (FLA & LRC Ratings Apply where no HP Rating is given) Nominal Circuit Voltage, VAC							
			110-120	200	208	220-240	265	**277**	380-415	**440-480**
Rated Current (See Note #1)	FLA Rating	Starting/ LRC Rating						**1 pole**		**2 pole**
0.5A	0.5A	3°								
1A	1A	6°							1/10	
1.5A	1.5A	9°				1/10	1/10	**1/10**	1/6	
2A	2A	12A				1/8	1/6	**1/6**	1/4	
3A	3A	18A	1/10	1/6	1/6	1/4	1/4	**1/3**	1/3	**1/2**
4A	4A	24A	1/8	1/4	1/3	1/3	1/3	**1/3**	1/2	**1**
5A	5A	30A	1/6	1/3	1/3	1/2	1/2	**1/2**	3/4	**1 1/2**
6A	6A	36A	1/4	1/2	1/2	1/2	3/4	**3/4**	1	**2**
7A	7A	42A	1/4	1/2	1/2	3/4	1	**1**	1 1/2	**2**
8A	8A	48A	1/3	3/4	3/4	1	1	**1**	2	**2**
9A	9A	54A	1/3	3/4	1	1	1	**1 1/2**	2	**3**
10A	10A	60A	1/2	1	1	1 1/2	1 1/2	**2**	2	**3**
12A	12A	72A	1/2	1 1/2	1 1/2	2	2	**2**	3	**3**
13A	13A	78A	1/2	1 1/2	1 1/2	2	2	**2**	3	**3**
15A	15A	90A	3/4	2	2	2	3	**3**	3	**5**
16A	16A	96A	1	2	2	2	3	**3**	3	**5**
18A	18A	108A	1	2	2	3	3	**3**	5	**5**
20A	20A	120A	1 1/2	3	3	3	3	**3**	5	**5**
23A	23A	138A	1 1/2	3	3	3	3	**3**	5	**7 1/2**
25A	25A	150A	2	3	3	3	5	**5**	5	**7 1/2**
27A	27A	162A	2	3	3	3	5	**5**	7 1/2	**10**
30A	30A	180A	2	3	3	5	5	**5**	7 1/2	**10**

AS168X-CB	Motor Nameplate		Horsepower (FLA & LRC Ratings Apply where no HP Rating is given) Nominal Circuit Voltage, VAC					
			110-120	200	208	220-240	380-415	**440-480**
Rated Current (See Note #1)	FLA Rating	Starting/ LRC Rating						**3 pole**
0.5A	0.5A							
1A	1A							
1.5A	1.5A	10A					1/2	**1/2**
2A	2A	12.5A					3/4	**3/4**
3A	3A	20A		1/2	1/2	1/2	1	**1 1/2**
4A	4A	25A		3/4	3/4	3/4	1 1/2	**2**
5A	5A	32A	1/2	1	1	1	2	**3**
6A	6A	32A	1/2	1	1	1/2	2	**3**
7A	7A	32A	3/4	1/2	1/2	2	3	**3**
8A	8A	46A	3/4	2	2	2	3	**5**
9A	9A	46A	1	2	2	2	3	**5**
10A	10A	46A	1	2	2	3	5	**5**
12A	12A	63.5A	1 1/2	3	3	3	5	**7 1/2**
13A	13A	63.5A	1 1/2	3	3	3	5	**7 1/2**
15A	15A	81A	2	3	3	3	7 1/2	**10**
16A	16A	81A	2	3	3	5	7 1/2	**10**
18A	18A	81A	2	5	5	5	10	**10**
20A	20A	81A	3	5	5	5	10	**10**
23A	23A	116A	3	5	5	7 1/2	10	**15**
25A	25A	116A	3	5	7 1/2	7 1/2	10	**15**
27A	27A	145A	3	7 1/2	7 1/2	7 1/2	15	**20**
30A	30A	145A	3	7 1/2	7 1/2	10	15	**20**

Note #1: For AC motor circuit nameplate FLA loads, AC general-use loades, AC resistance loads

Time-Current-Curves

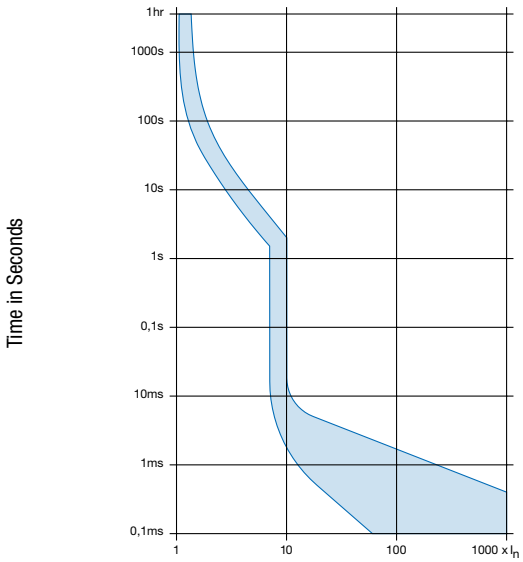
Version F / Magnetic 3-5 xI_n



Multiple of Rated Current In

Reference Temperature +23°

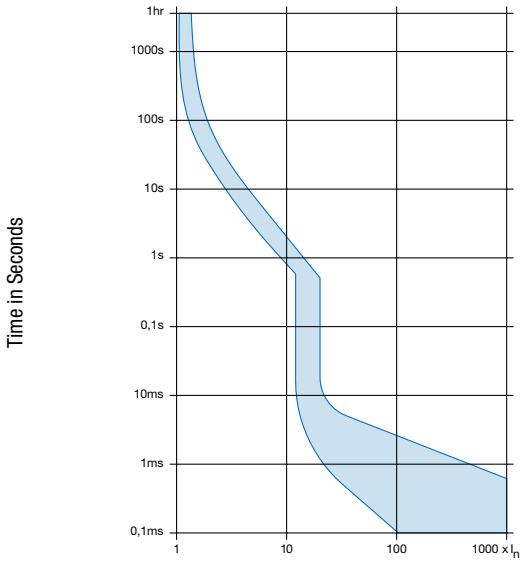
Version G / Magnetic 6-10 xI_n



Multiple of Rated Current In

Reference Temperature +23°

Version H / Magnetic 12-20 xI_n



Multiple of Rated Current In

Reference Temperature +23°

Config. Code

AS168X-CB 1 DG 200 N

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

AS168X-CB **1** DG 200 N **= Number of Poles**

Number of Poles	Configuration key
1-pole	1

AS168X-CB 1 **DG** 200 N = Tripping characteristics

Tripping characteristics	Configuration key
1.0-1.25xIn / 3-5xIn / 0.5-52 A	F
1.0-1.25xIn / 6-10xIn / 0.5-52 A	G
1.0-1.25xIn / 12-20xIn / 0.5-52 A	H

AS168X-CB 1 DG **200** N = Rated current

Rated current	Configuration key
0.05 A	005
1.0 A	010
1.5 A	015
2.0 A	020
3.0 A	030
4.0 A	040
5.0 A	050
6.0 A	060
7.0 A	070
8.0 A	080
9.0 A	090
10.0 A	100
12.0 A	120
15.0 A	150
16.0 A	160
18.0 A	180
20.0 A	200
23.0 A	230
25.0 A	250
27.0 A	270
30.0 A	300
32.0 A	320
35.0 A	350
40.0 A	400
45.0 A	450
50.0 A	500
52.0 A	520

Other rated currents on request

AS168X-CB 1 DG 200 **N** = Switched neutral

Switched neutral	Configuration key
Switched neutral pole	N

Variants

Tripping characteristics	Rated current	Switched neutral	Config. Code	Order Number	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	1.0 A		AS168X-CB1G010	4420.0206	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	2.0 A		AS168X-CB1G020	4420.0230	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	3.0 A		AS168X-CB1G030	4420.0229	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	3.0 A	Switched neutral pole	AS168X-CB1G030N	4420.0973	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	4.0 A		AS168X-CB1G040	4420.0231	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	5.0 A		AS168X-CB1G050	4420.0202	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	6.0 A		AS168X-CB1G060	4420.0201	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	7.0 A		AS168X-CB1G070	4420.0329	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	8.0 A		AS168X-CB1G080	4420.0228	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	10.0 A		AS168X-CB1G100	4420.0261	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	10.0 A	Switched neutral pole	AS168X-CB1G100N	4420.0512	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	12.0 A		AS168X-CB1G120	4420.0597	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	15.0 A		AS168X-CB1G150	4420.0248	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	16.0 A		AS168X-CB1G160	4420.0260	
1.0-1.25xIn / 6-10xIn / 0.5-52 A	20.0 A		AS168X-CB1G200	4420.0262	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	25.0 A		AS168X-CB1G250	4420.0232	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	30.0 A		AS168X-CB1G300	4420.0233	▮
1.0-1.25xIn / 6-10xIn / 0.5-52 A	35.0 A		AS168X-CB1G350	4420.0839	
1.0-1.25xIn / 12-20xIn / 0.5-52 A	1.0 A		AS168X-CB1H010	4420.0595	▮
1.0-1.25xIn / 12-20xIn / 0.5-52 A	3.0 A		AS168X-CB1H030	4420.0694	▮
1.0-1.25xIn / 12-20xIn / 0.5-52 A	4.0 A		AS168X-CB1H040	4420.0173	▮
1.0-1.25xIn / 12-20xIn / 0.5-52 A	6.0 A		AS168X-CB1H060	4420.0596	
1.0-1.25xIn / 12-20xIn / 0.5-52 A	8.0 A		AS168X-CB1H080	4420.0714	
1.0-1.25xIn / 12-20xIn / 0.5-52 A	10.0 A		AS168X-CB1H100	4420.0572	

Tripping characteristics	Rated current	Switched neutral	Config. Code	Order Number
1.0-1.25xIn / 12-20xIn / 0.5-52 A	15.0 A		AS168X-CB1H150	4420.0675
1.0-1.25xIn / 12-20xIn / 0.5-52 A	16.0 A		AS168X-CB1H160	4420.0768

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Packaging Unit 1 Pcs

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