

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



See below:

[Approvals and Compliances](#)

Description

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

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

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	Icn: 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 mm ² / 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
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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: 40005743
	UL Approvals	UL	UL File Number: E216629 / E71572
	UL Approvals	UL	UL File Number: E216629 / E71572

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
	Designed according to	UL508, UL1077	Standard for Supplementary Protectors for Use in Electrical Equipment
	Designed according to	UL 508	Standard for Industrial Control Equipment
	Designed according to	CSA C22.2	Supplementary Protectors

Application standards

Application standards where the product can be used

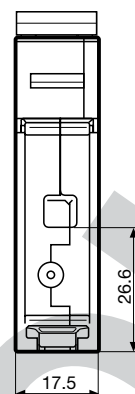
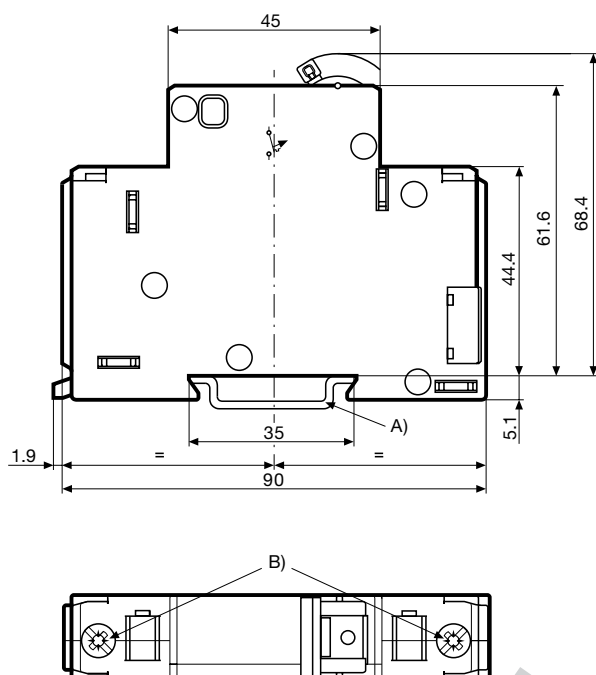
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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	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 1 pole

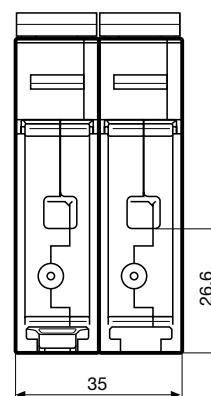
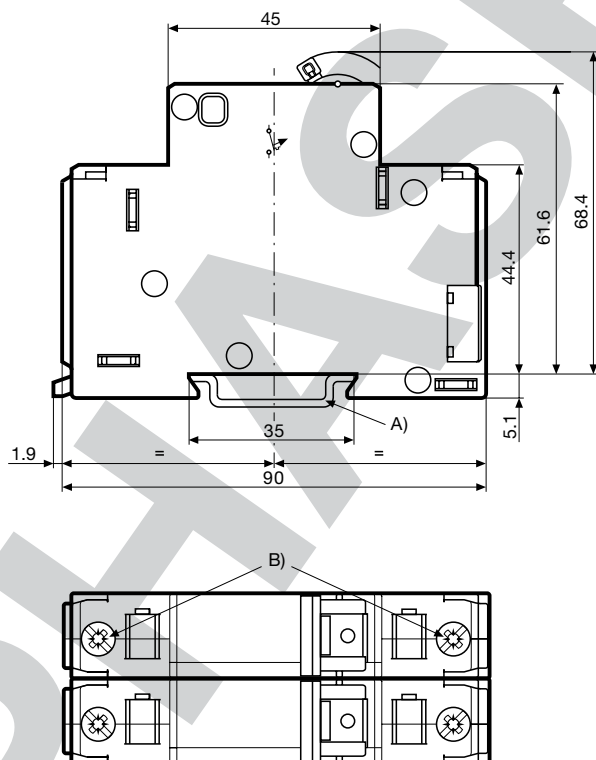


A) 35 mm DIN rail EN 50022

B) Max. torque

Wire crossection	Max. torque
1.5 ... 10 mm ²	2.5 Nm
16 ... 25 mm ²	3.1 Nm
AWG #16 ... 8	20 ... 22 lb-in
AWG #6 ... 4	26 ... 28 lb-in

AS168X 1 pole and switched neutral pole



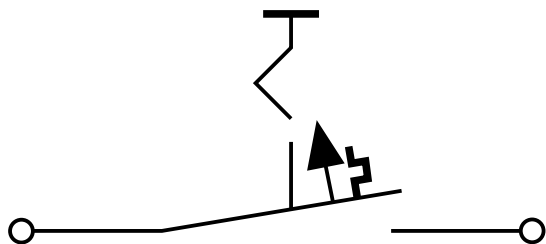
A) 35 mm DIN rail EN 50022

B) Max. torque

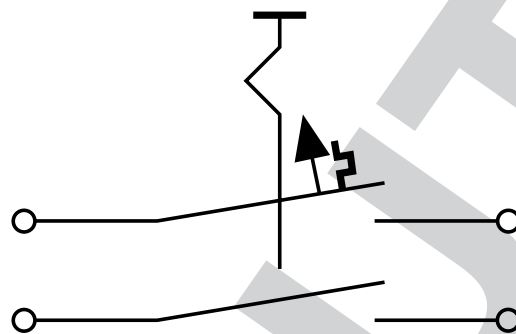
Wire crossection	Max. torque
1.5 ... 10 mm ²	2.5 Nm
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Diagrams

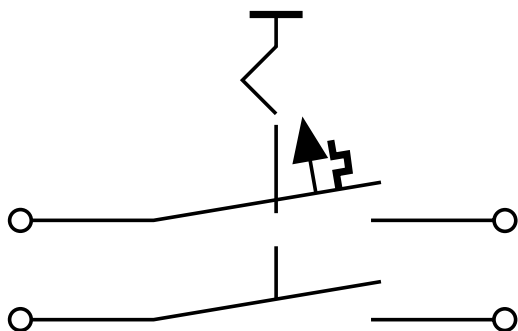
AS168X-CB1...



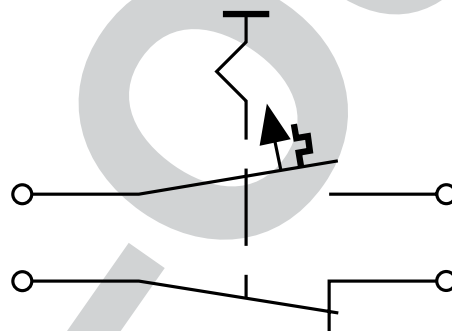
AS168X-CB1...N



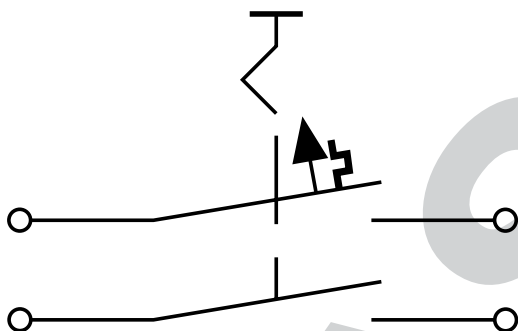
AS168X-CB1... / AS168X-ACBH1



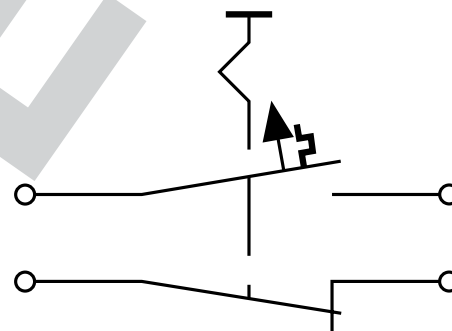
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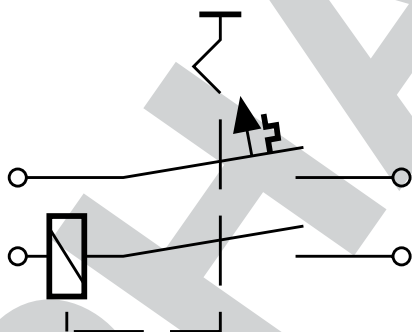
AS168X-CB1... / AS168X-ACBS1



AS168X-CB1... / AS168X-ACBS2



AS168X-CB1... / AS168X-ACBA



Symbol	Standard	Rated current	Rated voltage AC	Conditional short circuit capacity I _{cn}	Rated voltage DC	Conditional short circuit capacity I _{cn}
	UL 508 CSA C22.2 no. 14	0.5 - 52 A	277 V	5 kA	-	-
	UL 1077 CSA C22.2 no. 235	0.5 - 40 A 0.5 - 50 A	240 V 277 V 125 V	10 kA 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 loads, AC resistance loads

Time-Current-Curves

Version F / Magnetic 3-5 xI_n



Multiple of Rated Current I_n

Reference Temperature +23°

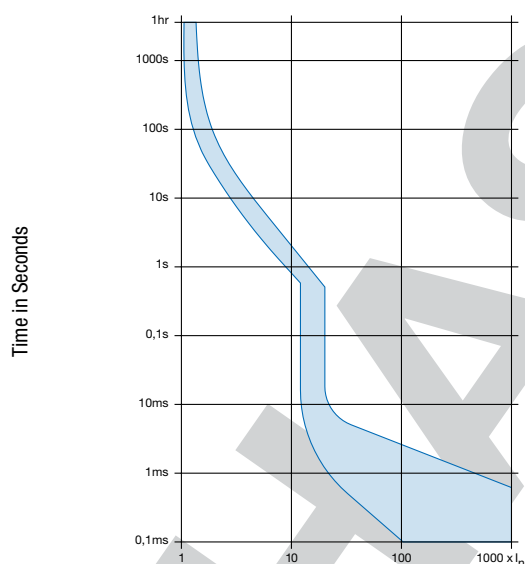
Version G / Magnetic 6-10 xI_n



Multiple of Rated Current I_n

Reference Temperature +23°

Version H / Magnetic 12-20 xI_n



Multiple of Rated Current I_n

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

Other rated currents on request

Rated current	Configuration key
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

Most Popular.

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

Packaging Unit 1 Pcs

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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