



KILOVAC CAP120 HIGH-VOLTAGE CONTACTORS

COMPACT, HERMETICALLY SEALED FOR HARSH ENVIRONMENTS
AND RATED FOR 150 A, 400 TO 600 VDC

KILOVAC CAP120 CONTACTORS

Single Pole Hermetically Sealed 150 Amp DC Contactors



Designed for harsh environments and loads, the new Kilovac CAP120 contactor from TE Connectivity (TE) offers exceptional performance for a device this small and light. A reduced-size version of our popular MAP and CAP series contactors, the CAP120 contactor's small size and light weight opens up new application possibilities for a 150 A/600 Vdc device.

High break levels—1000 A at 400 Vdc and 600 A at 600 Vdc—help increase system flexibility and reliability.

CAP120 contactors provide reliable and long-lasting performance in military ground, military and commercial aerospace, and marine applications.

HERMETICALLY SEALED

- Suitable for application in harsh and explosive environments
- No contact oxidation over periods of non-use

SPACE AND WEIGHT SAVINGS

- Size reduced version of MAP/CAP 100 Series contactors

VERSATILE

- Bidirectional switching
- Main contacts not polarity sensitive
- Panel mount
- Not position sensitive: mounts in any orientation

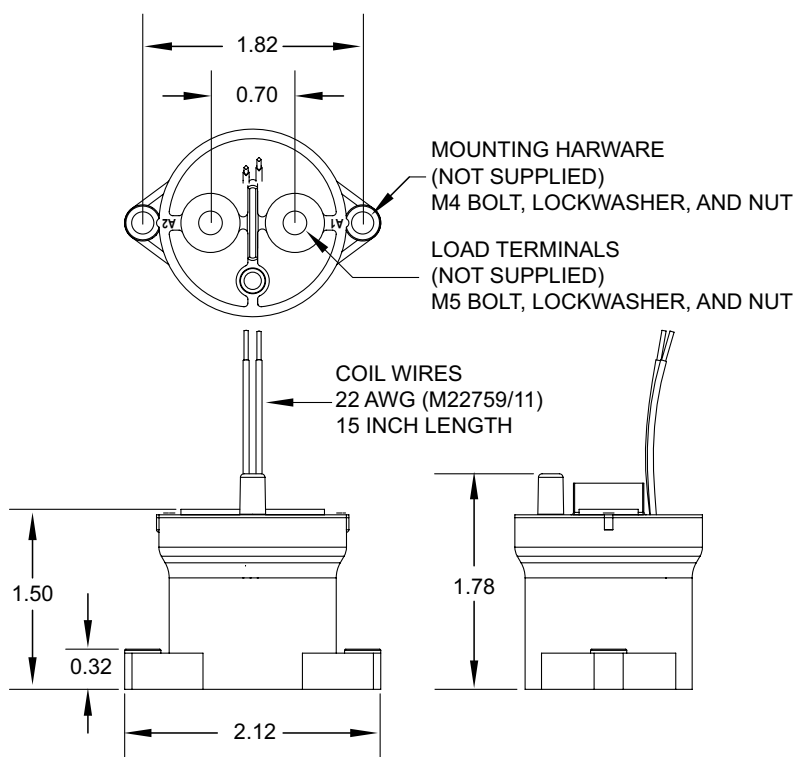
EFFICIENT

- Integrated dual-coil electronic “cut-throat” economizer with suppression

APPLICATIONS

- Energy storage systems
- Power distribution
- High-current battery systems
- Lithium ion battery systems
- Solar power

PRODUCT DIMENSIONS (inches)



Coil Voltage	Description	Part No.
28 Vdc	CAP120ASANG	2-1618403-6
12 Vdc	CAP120AVANG	2-1618411-9

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.



Specifications

MECHANICAL/ENVIRONMENTAL

- **Shock:** 11ms 1/2 sine (operating): 20 g peak
- **Sine Vibration:** 25 g peak: 55 to 2000 Hz
- **Random Vibration:** 13.3 grms:

Hz	15	100	450	900	2000
g²/Hz	0.002	0.002	0.12	0.12	0.083

- **Operating Temperature Range:** -40°C to +85°C
- **Weight:** 0.14 kg
- **Sealing:** Hermetic

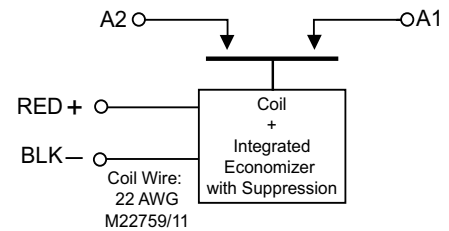
ELECTRICAL DATA

- **Contact Arrangement:** SPST-NO (form X)
- **Voltage Rating:** 600 Vdc
- **Current Rating:** 150 A continuous
- **Contact Resistance:** 0.6 mΩ
- **Contact Voltage Drop @ 150 A:** 80 mV max.
- **Hot-Switching Performance, Resistive Load @ 600 Vdc:**
 100 A Make/Break: 1000 cycles
 600 A Break: 5 cycles
 600 A Make: 25 cycles
- **Hot-Switching Performance, Resistive Load @ 400 Vdc:**
 150 A Make/Break: 3250 cycles
 1000 A Break Only: 5 cycles
- **Maximum Pulse Through Closed Contacts:** 1250 A
- **Dielectric Withstanding Voltage over Life:**
 Terminal to Terminal: 1 mA max. @2800 Vrms
 Terminals to Coil: 1 mA max. @1500 Vrms
- **Insulation Resistance over Life:**
 Terminal to Terminal: 100 MΩ @ 500 Vdc new
 Terminals to Coil: 50 MΩ min. @ 500 Vdc end of life
- **Mechanical Life:** 100,000 cycles min.

COIL DATA (@ 20°C unless noted)

	28 Vdc Contactors	12 Vdc Contactors
Coil Voltage, nom.:	28 Vdc	12 Vdc
Pick Up Voltage, max. over temperature range:	16 Vdc	8.5 Vdc
Hold Voltage, min:	12 Vdc	7 Vdc
Dropout Voltage:	6 Vdc min.	7 Vdc max.
Pickup Coil Resistance:	6.5 Ω	2.5 Ω
Hold Coil Resistance:	200 Ω	51 Ω
Coil Inrush Current @ 28 Vdc nom.:	4.5 A	4.5 A
Hold Current @28 Vdc	0.15 A	0.25 A
Coil Inrush Time, max.:	100 ms	100 ms
Operate Times:		
Operate Time:	8 ms	15 ms
Operate Bounce:	3 ms	5 ms
Release Time:	5 ms	5 ms
Coil Suppression (max.)	42 V	42 V

Schematic



LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

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Consult TE for the latest dimensions and design specifications.

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Данный компонент на территории Российской Федерации

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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