

Introducing **KILOVAC CAP202 Contactors** 12 to 900Vdc, 350 amp DC Power





PART NUMBERING

Typical Part Number CAP202	Μ	S	^B	F	D
Series: CAP202 = 2 form X, DPST-N0-DM Contactor					
Auxiliary Contact Outputs (SPDT form C): A = None M = Two F = Four					
Coil Voltage: S = 28V (with built-in electronically switched dual coil economizer)					
Coil and Aux. Wire Length: A = 15.3 inches B = 6 inches X = Customer Special					
Coil and Aux. Connector: N = none F = D Plug on flying leads (may affect wire length)				_	
Mounting and Power Terminals: D = 2X M5 Bottom Mount with 4X, M6 x 1 Female thread terminals					

Specifications are subject to change without notice.





DIMENSIONS



KILOVAC CAP202 Series 12-900Vdc Contactors

PERFORMANCE DATA

Physical Data	
Contact Arrangement: Power Contacts	DPST-NO (2 Form X)
Auxiliary Switches	SPDT (form C)
Dimensions Se	e drawings on previous page
Weight	0.79 Kg (1.74 lb.)
Electrical Data	
Voltage Rating: Main Contacts	12-900Vdc
Auxiliary contacts	30VdC
Current Rating:	
Continuous : Main Contacts (Note 1)	350A/pole
Auxiliary Contacts	3A
Contact Resistance:	
Main Contacts (2)	100 m $_{\Omega}$ max @1 amp
0.3 mΩ i	max. @ 200A after 3 mins.
Auxiliary Contacts	$200 \text{ m}\Omega \text{ max}$
Hot Switching Performance ($a \pm 400$ Vdc (3)	<i>(</i>):
100A make/break	10,000 cycles
250A make/break	2,500 cycles
700A break only	10 cycles
Hot Switching Performance @ \pm 270 Vdc (4):
100A make/break	40,000 cycles
250A make/break	/,500 cycles
2000A break only $@ \pm 3/0Vdc$ (5)	2 cycles
Maximum Make Current	700A
Dielectric Withstand Voltage over Life	
Terminal to Terminal/Terminals to Coil	1mA max @ 2,200Vrms
Insulation Resistance over Life	
Terminal to Terminal / Terminals to Coil	50m Ω min @ 500Vdc
Mechanical Life	100,000 cycles

less otherwise noted)
28-32 Vdc
16 Vdc
3 to 8Vdc
3.4/6.0 A
75/150 mS
0.27 /0.48 A
60 Vdc
13/20mS
3/10 mS
7/12mS
25mS

Environmental Data						
Shock, 11ms 1/2 sine (operating)			20	G peal	(
Sine Vibration, 10G peak	55-2,000 Hz.					
Random Vibration, 14 Grms	15	100	300	900	2000) Hz
	.01	.01	.2	.2	.01	G2/Hz
Operating Temperature Range			-55°(to +8	5°C	

Notes:

1. Using 4/0 conductor. Current rating is affected by attached conductor size and design. Keep terminals below 150 ° C max. continuous, 175 ° C for 2 hours max. and 200 ° C for 1 minute max. For mounting large conductors, request terminal adapter PN 3-1618396-7.

2. Operational contact resistance is measured by millivolt drop across contacts a > 100A current. Initial contact resistance may be higher than $0.3m\Omega$, but will drop below within 30 mins. max.

3. Voltage applied to each contact set separately.

4. Voltage applied across both contact sets in series.

5. May not pass 2,200 Vrms dielectric testing after second interrupt cycle.

KILOVAC CAP202 Series 12-900Vdc Contactor



KEY FEATURES

Hermetically sealed

Up to 4X SPDT auxiliary switch outputs: 30 Vdc/2A max switching or 6V/5mA min. signal

Integrated coil economizer with coil suppression

EMC compliant - no radiated coil emission

Bidirectional switching main contacts not polarity sensitive

Mount in any orientation not position sensitive

DESCRIPTION

2-pole single throw hermetically sealed DC contactor; 12-900 Vdc/350A per pole

Not position sensitive

Bi-directional switching

APPLICATIONS

High Voltage DC Converter Systems (ref schematic below)

Test Equipment

Power Distribution

Power Motion Control



ELECTRICAL

Contact arrangement:	DPST-No (2 form X)
Voltage rating:	12-900 Vdc (main contacts); 30 Vdc (auxiliary)
Mechanical life:	100,000 cycles

PHYSICAL OR OTHER PROPERTIES

CAP202FS

Weight:	0.79 Kg		
Hermetically s	ealed		
Safe for harsh	/corrosive environmen	ts	
No contact ox	idation over periods o	f non-use	
Number of SP	DT Auxiliary Contacts	per Contacto	r Туре:
	CAP202AS	None	
	CAP202MS	Two	

Four

FOR MORE INFORMATION

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