

KILOVAC High Voltage DC Contactors Quick Reference Guide

Product Series		(MAP) Aerospace Military			
		MAP101	MAP100	MAP200	MAP201
Main Contact Data					
Continuous Current	A	100	100	500	350
Contact Voltage Range	Vdc	12-900	12-900	12-900	12-900
Electrical Life at Rated Current, 270 Vdc, Resistive Load	Cycles	25,000	15,000	1,000	5,000
Overload (Make/Break) @ 350 Vdc	A	2,000/2,000	500/1,500	650/2,000	2,000/2,000
Rupture (Break only) @ 350 Vdc	A	2,000	1,500	2,000	2,000
Contact Arrangement		SPST	SPST	SPST	SPST
Contact Form		Latch	X (NO) or Latch	X (NO)	X (NO)
Contact Resistance @ Rated Current	milliohms	0.75	0.5	0.2	0.3
Auxiliary Contact Data					
Contact Form/Quantity of Sets (Max.)		Form A/1	Form A/1	Form A/1	Form A/1
Current Rating @ 30 Vdc (Ag/Au), Max.	A	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1
Minimum Signal Level	Vdc/mAdc	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA
Dielectric Withstanding Voltage					
Contacts to Coil to All Other Points	Vrms	1,500	1,500	2,200	2,200
Insulation Resistance					
Initially @ 500 Vdc	megohms	100	100	100	100
At End of Life @ 500 Vdc	megohms	50	50	50	50
Environmental Data					
Operating Temperature Range	°C	-55 to +85	-55 to +85	-55 to +85	-55 to +85
Storage Temperature Range	°C	-65 to +125	-65 to +125	-65 to +125	-65 to +125
Shock, 11ms, 1/2 Sine	G's	20	20	20	20
Vibration, Sine (55-2,000 Hz)	G's	20	20	20	20
Coil Transient Suppression					
		No	X, Yes/Latch, No	Yes	Yes
Mechanical Data					
Operate Time @ 25°C (Including Bounce), Max./Typ.	ms	40/20	40/20	40/20	40/20
Release Time, Max.	ms	15	15	15	15
Bounce Time, Max.	ms	5	5	5	5
Mechanical Life, Min.	Cycles	100,000	100,000	100,000	100,000
Weight (Nominal)	lb. (kg)	0.79 (.35)	0.79 (.35)	0.95 (.43)	0.95 (.43)
Coil Voltage (Nominal)					
	Vdc	28	28	28	28

Note: Consult Tyco Electronics for complete specifications, detailed performance characteristics and additional models.

For factory-direct application assistance,
dial 800-253-4560, ext. 2055, or
805-220-2055.

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(CAP) Aerospace Commercial			(EV) OEM/Commercial & Electric Vehicle				(LEV) Industrial Commercial	
CAP202	CAP200	CAP100	EV200A	EV200B	EV200P	EV100	LEV100	LEV200
300	500	100	500	500	500	100	100	500
12-900	12-900	12-900	12-900	12-900	12-900	12-900	900	12-900
10,000	1,000	6,000	1,000	500	500	6,000	6,000	1,000
650/2,000	650/2,000	600/1000	650/2000	650/1000	650/1000	600/1000	600/1000	650/2000
2,000	2,000	1000	2000	1000	1000	1000	1000	1000
DPST	SPST	SPST	SPST	SPST	SPST	SPST	SPST	SPST
2X (NO)	X (NO)	X (NO)	X(NO)	Y(NC)	X (LATCH)	X(NO)	X(NO)	X(NO)
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Form C/4	Form A/2	Form C/1	Form A/1	Form A/1	Form A/1	None	Form X/1	Form X/1
2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1	2.0/0.1
Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	Ag 6V/15mA Au 5V/5mA	—	—	Ag 6V/15mA Au 5V/5mA
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,000	2,200
100	100	100	100	100	100	100	100	100
50	50	50	50	50	50	50	50	50
-55 to +85	-55 to +85	-55 to +85	-40 to +85	-40 to +60	-40 to +85	-40 to +85	-40 to +85	-40 to +85
-65 to +125	-65 to +125	-65 to +125	-65 to +125	-65 to +125	-65 to +125	-65 to +125	-65 to +125	-65 to +125
30	20	20	20	30 (Closed)/ 10 (Open)	30	20	20	20
20	20	20	20	10	20	20	20	20
Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
40/20	40/20	25/15	25/15	25/15	25/15	25/15	25/15	25
15	15	10	12	15	15	15	10	15
5	5	5	7	5	5	5	5	5
100,000	100,000	100,000	1,000,000	100,000	100,000	1,000,000	1,000,000	100,000
1.3 (.59)	0.95 (.43)	6.70 (190)	0.95 (.43)	0.95 (.43)	.99 (.53)	.28 (.130)	0.42 (.19)	1.3 (.60)
28	28	28	9-36	12/24	12/24	9-36	12/24/48	12/24/48

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