

Single Pole, Electrically Held, 1 Amp and Less

Series	M39016/7	M39016/23	M39016/24
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	1 Form C (SPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 26.5 Vdc		
Coil Power	512 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	100 mW max. @ 25°C		
Operating characteristics			
Operate time	2 ms max.		
Release time	2 ms max.	4 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Single Pole, Electrically Held, 1 Amp and Less (Continued)

Series	M39016/10	M39016/25	M39016/26
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	1 Form C (SPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 40 Vdc		
Coil Power	506 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	40 mW max. @ 25°C		
Operating characteristics			
Operate time	4 ms max.		
Release time	2.5 ms max.	7.5 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 1 Amp and Less

Series	M39016/9	M39016/15	M39016/20
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	2 Form C (DPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 30 Vdc	5 to 26.5 Vdc	
Coil Power	675 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	130 mW max. @ 25°C		
Operating characteristics			
Operate time	2 ms max.		
Release time	1.5 ms max.	4 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Series	M39016/11	M39016/16	M39016/21
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	2 Form C (DPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 48 Vdc		
Coil Power	565 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	60 mW max. @ 25°C		
Operating characteristics			
Operate time	4 ms max.		
Release time	2 ms max.	7.5 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Series	M39016/17	M39016/18	M39016/19
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	2 Form C (DPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 26.5 Vdc		
Coil Power	660 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	130 mW max. @ 25°C		
Operating characteristics			
Operate time	2 ms max.		
Release time	1.5 ms max.	4 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Series	M39016/41	M39016/42	M39016/43
Product facts	-	Suppression diode	Suppression & Protection diodes
Electrical characteristics			
Arrangement	2 Form C (DPDT)		
Contact material			
Stationary	Gold/platinum/palladium/silver alloy (gold plated)		
Moveable	Gold/platinum/palladium/silver alloy (gold plated)		
Contact resistance			
Before life	100 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	200 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 48 Vdc		
Coil Power	565 mW max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	60 mW max. @ 25°C		
Operating characteristics			
Operate time	4 ms max.		
Release time	2 ms max.	7.5 ms max.	
Contact bounce	1.5 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	500 Vrms 60 Hz		
Between Contacts & Coil	500 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 2 Amps and Less

Series	M39016/6	M39016/22	M39016/44
Product facts	Standard Half Size	Bifilar Half Size	Sensitive Half Size
Electrical characteristics			
Arrangement	2 Form C (DPDT)		
Contact material			
Stationary	Hardened silver alloy		
Moveable	Gold plated hardened silver alloy		
Contact resistance			
Before life	50 milliohms max. (measured @ 10 mA @ 6 Vdc)		
After life	100 milliohms max. (measured @ 1 A @ 28 Vdc)		
Coil Voltage	5 to 48 Vdc	6 to 26.5 Vdc	5 to 36 Vdc
Coil Power	1.4 W max. @ 25°C		
Pick-up Voltage	Approximately 50% of nominal coil voltage		
Pick-up Sensitivity	145 to 260 mW	325 mW	100 to 125 mW
Operating characteristics			
Operate time	4 ms max.	5 ms max.	6 ms max
Release time	4 ms max.	5 ms max.	
Contact bounce	2 ms max		
介電耐壓			
Between Open Contacts	500 Vrms 60 Hz		
Between Adjacent Contacts	1000 Vrms 60 Hz		
Between Contacts & Coil	1000 Vrms 60 Hz		
絕緣阻抗	10,000 Mega Ohms min. @ 500 Vdc		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Electrically Held, 2 Amps and Less

Series	M39016/13	M39016/37	M39016/38
Electrical characteristics			
Arrangement	2PDT		
DC resistive	2 Amps @ 28 V (50,000 operations) 1 Amp @ 28 V (100,000 operations)		
DC inductive	0.5 Amps @ 28 V, 200 mH		
AC resistive	0.5 Amps @ 115 V		
AC (case grounded)	0.125 Amps @ 115 V		
Low-level	50 μ A at 50 mV		
Contact resistance			
Before life	0.05 ohms		
After life	0.15 ohms		
Life	100,000 operations at rated loads listed 1,000,000 operations at low-level loads		
Operating characteristics			
Operate time	4 ms max.	4 ms max	
Release time	4 ms max.	6 ms max.	
Contact bounce	1.5 ms		
介電強度			
Sea level	500 Vrms		
70,000 ft up	350 Vrms		
絕緣阻抗	1,000 Mega Ohms min. @ over temperature range		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Double Pole, Magnetic Latching, 2 Amps and Less

Series	M39016/32
Electrical characteristics	
Arrangement	2PDT
DC resistive	2 Amps @ 28 V
DC inductive	0.5 Amps @ 28 V, 200 mH
AC resistive	1 Amp @ 115 V (single coil), case not grounded 0.25 Amps @ 115 volts(dual coil), case not grounded
Low-level	50 μ A at 50 mV
Contact resistance	
Before life	0.05 ohms
After life	0.1 ohms
Life	100,000 operations at rated loads listed 1,000,000 operations at low-level loads
Operating characteristics	
Operate time	4 ms max.
Release time	4 ms max.
Contact bounce	2 ms
介電強度	
Sea level	1,000 Vrms
Across contact gap	700 Vrms
絕緣阻抗	1,000 Mega Ohms min.
Environmental characteristics	
Temperature range	-65°C to +125°C

Four Pole, Electrically Held, 2 Amps and Less

Series	M39016/40
Electrical characteristics	
Arrangement	4 Form C (4PDT)
Contact material	
Stationary	Gold plated hardened silver alloy
Moveable	Gold plated hardened silver alloy
Contact resistance	
Before life	50 milliohms max. (measured @ 10 mA @ 6 Vdc)
After life	100 milliohms max. (measured @ 2 A @ 28 Vdc)
Coil Voltage	6 to 26.5 Vdc
Coil Power	2.6 W max. @ 25°C
Pick-up Voltage	Approximately 50% of nominal coil voltage
Pick-up Sensitivity	475 mW
Operating characteristics	
Operate time	5 ms max.
Release time	5 ms max.
Contact bounce	5 ms max
介電耐壓	
Between Open Contacts	350 Vrms 60 Hz
Between Adjacent Contacts	500 Vrms 60 Hz
Between Contacts & Coil	500 Vrms 60 Hz
絕緣阻抗	1,000 Mega Ohms min. @ 500 Vdc
Environmental characteristics	
Temperature range	-65°C to +125°C

Four Pole, Electrically Held, 2 Amps and Less (Continued)

Series	M39016/14	M39016/53	M39016/54
Electrical characteristics			
Arrangement	4PDT		
DC resistive	2 Amps @ 28 V		
DC inductive	0.5 Amps @ 28 V, 200 mH		
AC resistive	0.5 Amps @ 115 V, 400 or 60 Hz		
AC (case grounded)	0.125 Amps @ 115 V		
Low-level	30 μ A at 50 mV	50 μ A at 50 mV	
Contact resistance			
Before life	0.05 ohms max.		
After life	0.15 ohms		
Life	100,000 operations at rated loads listed 1,000,000 operations at low-level loads		
Operating characteristics			
Operate time	4 ms max.	4 ms max	
Release time	4 ms max.	6 ms max.	
Contact bounce	1.5 ms	2 ms	
介電強度			
Sea level	500 Vrms		
70,000 ft up	350 Vrms		
絕緣阻抗	1,000 Mega Ohms min. @ over temperature range		
Environmental characteristics			
Temperature range	-65°C to +125°C		

Four Pole, Magnetic Latching, 2 Amps and Less

Series	M39016/31	M39016/35	M39016/36
Electrical characteristics			
Arrangement	4-pole double-throw (4C)		
Operate sensitivity	-	Single-coil form, 100 mW Dual-coil form, 180 mW per coil	
DC resistive	2 Amps @ 28 V		
DC inductive	0.5 Amps @ 28 V, 200 mH		
AC resistive	0.5 Amps @ 115 V		
AC (case grounded)	0.125 Amps @ 115 V		
Low-level	50 μ A at 50 mV		
Contact resistance			
Before life	0.05 ohms max.		
After life	0.15 ohms		
Life	100,000 operations at rated loads listed 1,000,000 operations at low-level loads		
Operating characteristics			
Operate time	4 ms max.		
Release time	4 ms max.		
Contact bounce	1.5 ms		
介電強度			
Sea level	500 Vrms		
70,000 ft up	350 Vrms		
絕緣阻抗	1,000 Mega Ohms min. @ over temperature range		
Environmental characteristics			
Temperature range	-65°C to +125°C		