Automotive Relay

multicomp PRO



Features

- · Small and compact
- Available in single and twin relay
 MPCMA53 single relay, CMA532 twin relay
 MPCMA53 Dimensions: 13mm × 12mm × 10mm
 MPCMA532 Dimensions: 23.6mm × 13mm × 10mm
- · High contact capacity 30A
- · Low noise operation
- · Contains no lead and features cadmium-free
- contacts ensuring environment-friendly use
- Applications: car alarm, power window, central locking system, seat adjustment control, sunroof motor control, wiper, etc

RoHS Compliant

Specification

Contact Data					
Contact Form			MPCMA53: 1 Form A, 1 Form C		
			MPCMA532: 2×1 Form A, 2×1 Form C		
Contact Material			Ag Alloy		
Contact Rating			NO/NC: 20A/15A 14V DC		
Contact Resistance			Max. 100mΩ (6V DC 1A)		
	1	.Continued ation Current	NO: 30A (23°C, 1h) NC: 25A (23°C, 1h)		
Load	Max	Switching Voltage	16V DC		
	Max	. Switching Current	30A		
1 :6-	Elec	trical	100,000 operations		
Life	Мес	hanical	10,000,000 operations		
Coil Data					
Nominal Coil Power	r		0.55W, 0.8W		
General Data					
Insulation Resistance			Min.100MΩ 500V DC		
Dielectric Strength	Betw	een open contacts	550V AC, 1min		
Dielectric Strength	Betw	een coil and contacts	300 AC, IIIIII		
Operate Time			Max. 4ms		
Release Time			Max. 2ms		
Operating Temperature			-40°C to +105°C		
Humidity			35-95%RH, +40°C		
Shock Resistanc		Endurance	30g, 6ms		
SHOCK RESISTANC		Misoperation	Joug, onis		
Vibration Resistance		Endurance	10-500Hz, 6g		
		Misoperation	10-300112, 0g		
Weight			MPCMA53: Approximately 4g MPCMA532: Approximately 8g		

Note:Data shown are of initial value

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro



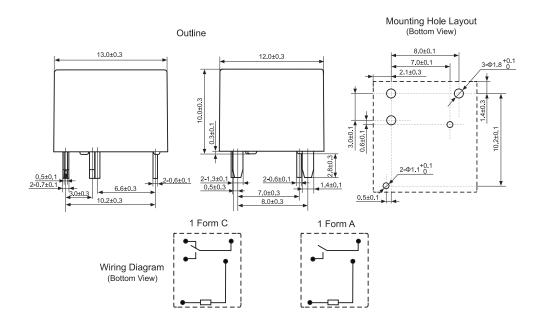
Automotive Relay

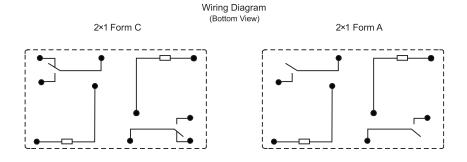


Coil Data Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance Ω+/-10%	Operate Voltage ≤V DC	Release Voltage ≥ VDC	Coil Power W
MPCMA53H-S-DC12V-A	12	261	6.0	1.2	0.55
MPCMA53H-S-DC12V-C		201	6.9	1.2	0.55

Outline, Wiring Diagram, Mounting Hole Layout





Dimensions: Millimetres

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

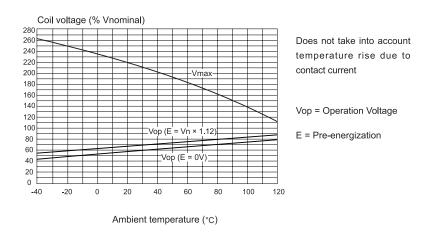


Automotive Relay



Reference Data

Operating voltage range



Part Number Table

Description	Part Number	
Automotive Relay, PCB Type, NO, 0.55W, 20A	MPCMA53H-S-DC12V-A	
Automotive Relay, PCB Type, NO/NC, 0.55W, 20A	MPCMA53H-S-DC12V-C	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

