



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)
Load	Max.Continued operation Current	NO: 30A (23°C, 1h) NC: 25A (23°C, 1h)
	Max.Switching Voltage	16V DC
	Max. Switching Current	30A
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations
Coil Data		
Nominal Coil Power		0.55W, 0.8W
General Data		
Insulation Resistance		Min.100MΩ 500V DC
Dielectric Strength	Between open contacts	550V AC, 1min
	Between coil and contacts	
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
	Misoperation	
Vibration Resistance	Endurance	10-500Hz, 6g
	Misoperation	
Weight		MPCMA53: Approximately 4g MPCMA532: Approximately 8g

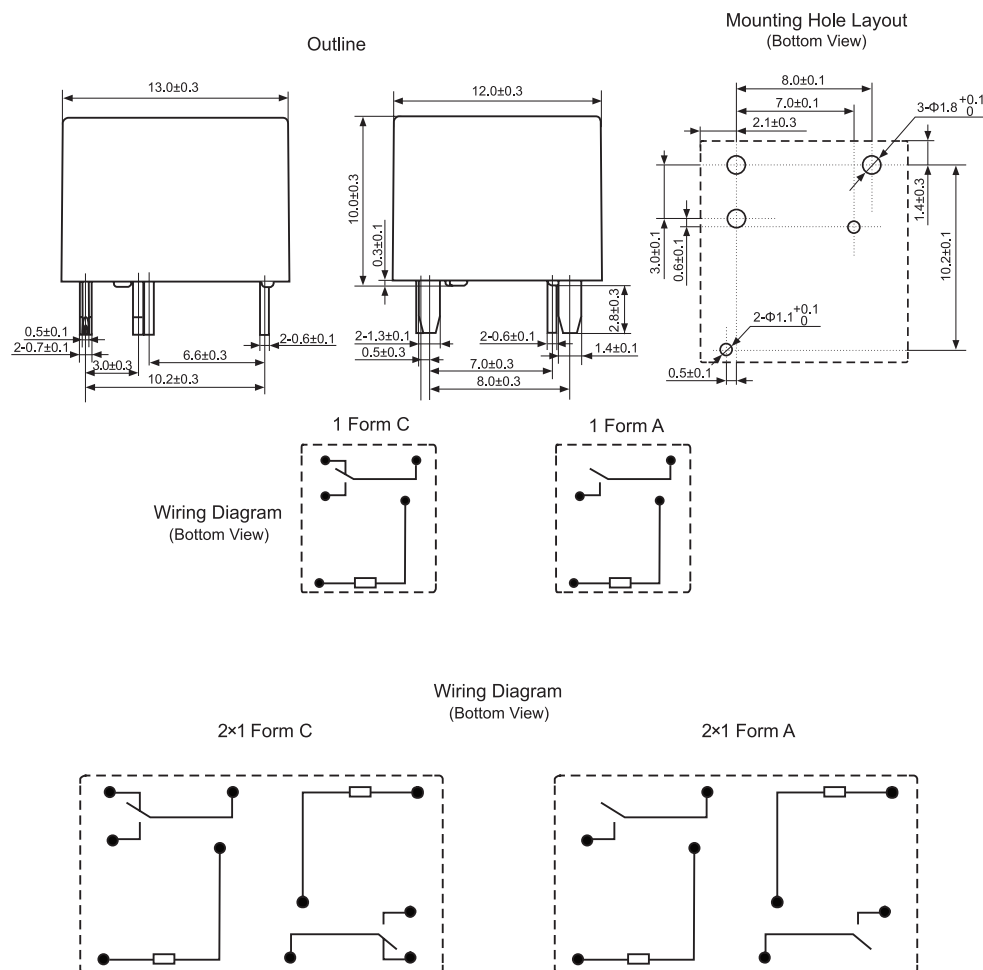
Note:Data shown are of initial value

Coil Data

Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ DC	Release Voltage $\geq V$ DC	Coil Power W
MPCMA53H-S-DC12V-A	12	261	6.9	1.2	0.55
MPCMA53H-S-DC12V-C					

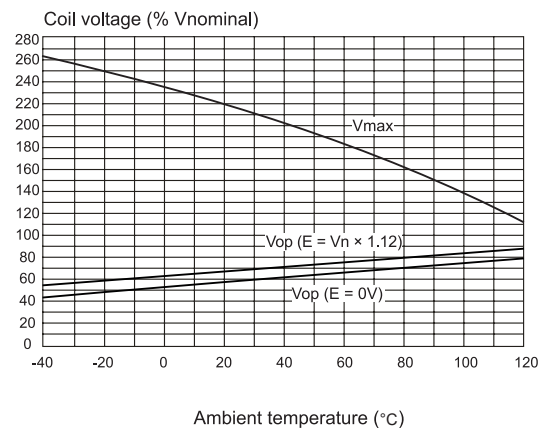
Outline, Wiring Diagram, Mounting Hole Layout



Dimensions : Millimetres

Reference Data

Operating voltage range



Does not take into account temperature rise due to contact current

Vop = Operation Voltage

E = Pre-energization

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

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