

MPC V1 SERIES RELAY

Power Saver series



TECHNICAL SPECIFICATIONS

TYPE		MPC V1		
TERMINAL TYPE		Plug In		
CONTACT CONFIGURATION		1C	2C	3C
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		6A & 12A		
RATED CARRYING CURRENT (RESISTIVE) AT 220 VDC (RELAY WITH ARC SUPPRESSOR)		6A* & 10A*		—
CONTACT MATERIAL		Silver alloy		
INDUCTIVE LOAD		1/2 HP at 277 VAC (10A Relay) 1 HP at 277 VAC (6A Relay)		
INITIAL CONTACT RESISTANCE		0.050 Ω		
COIL NOMINAL VOLTAGES	DC	12-250 VDC		
	AC	12-240 VAC @50Hz/ 60Hz*		
OPERATING POWER (MIN-MAX) FOR DC COIL		0.89W - 1.15 W		
OPERATING POWER (MIN-MAX) FOR AC COIL		1.10VA - 1.30VA		
DIELECTRIC STRENGTH BETWEEN	OPEN CONTACT	1000 VRMS		
	COIL TO CONTACT	2500 VRMS		
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		500 MΩ		
OPERATE TIME (MAX)		20 ms		
RELEASE TIME (MAX)		10 ms		
AMBIENT TEMPERATURE		-25°C To +70°C		
IMPULSE WITHSTAND VOLTAGE (AS PER IEC 60255-5)		5kV 1.2/50 μS.		
ELECTRICAL LIFE (NO OF OPERATIONS)		10 ⁵		
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁷		
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		31.5 x 31.5 x 56.0		
MAX WEIGHT IN GRAMS (APPROX.)		40.25 gms		
INBUILT FEATURE		LED		
OPTIONAL FEATURES		DIODE		



(Photo For Representation Purpose Only)



SALIENT FEATURES

- Consumes Less Power
- High Reliability
- Elegant / Sturdy and Light weight
- ARC Suppressor*(HMPC V1)
- Dust Protected
- Excellent Isolation
- Compact High Performance
- Din Rail Socket Available

APPLICATIONS

- | | | |
|---------------------------|--|----------------------------------|
| • Machine Tools | • Bio-medical Instruments & Appliances | • Inverters |
| • Control Panels | • Uninterrupted Power Supplies | • Industrial controls |
| • Temperature controllers | • Process Control Systems | • Circuit Breakers |
| • Stabilizers | • Electrical Equipment's Appliances | • High voltage DC Panels/ Motors |
| • Textile Machines | • Automation & Remote Control Systems | • Scada Applications |
| • Battery Chargers | | |

NOTE :- 1) CMR's upto 10Amp contact load are type tested by TUV Nord as per IEC 61810-1:2015-A1:2019

2) Recommended Socket :- For **MPC V1 2C** is **MPCS 8**, For **MPC V1 3C** is **MPCS 11**

3) All Specification / Dimensions subject to Tolerance

4) Gold plated contacts available with extra charges

5) *Relay with **Arc suppressor (HMPC V1)** Available in **6A & 10A** @220VDC with 2 Changeover (**2C**) contact

6) *Special Relay With 60Hz Compatibility Available With Extra Charges

7) MPC Series are also known as CMR (Contact multiplying relays)with rated carrying current resistive at 24VDC/250VAC. HMPC are HDR(Heavy duty relays) with rated carrying current resistive at 220VDC/250VAC

8) Any techno commercial changes is / are prerogative of manufacturer / management of the company which can be done without any notice



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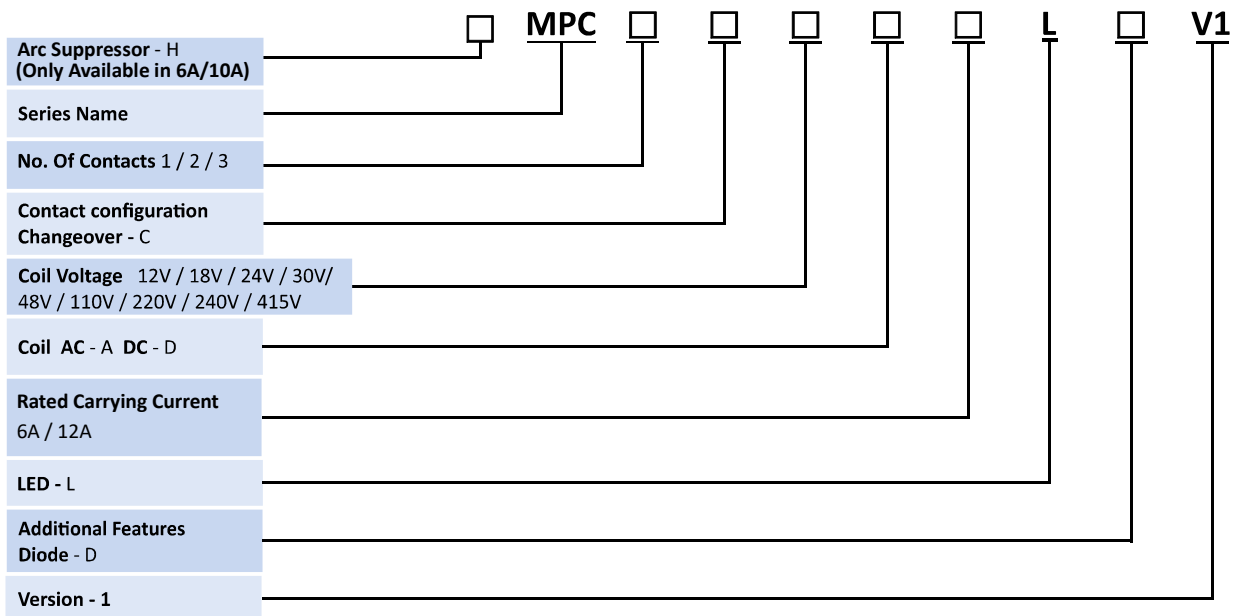
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1

COIL-DATA (6A-12A / 6A-10A) (MPC / HMPC) (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC RELAY	AC RELAY			DC (W)	AC (VA)
12	160	46Ω	9.6	1.2	0.90	-
18	350	-	14.4	1.8	0.93	-
24	650	180	19.2	2.4	0.89	1.28
30	1.0k	-	24	3.0	0.90	-
48	2.6k	735	38.4	4.8	0.89	1.25
110	11k	4.4k	88	11.0	1.10	1.10
220	54k	-	176	22.0	0.97	-
240	-	19k	192	24.0	-	1.21
415	-	54k	332	41.5	-	1.28

ORDERING CODE FOR RELAY



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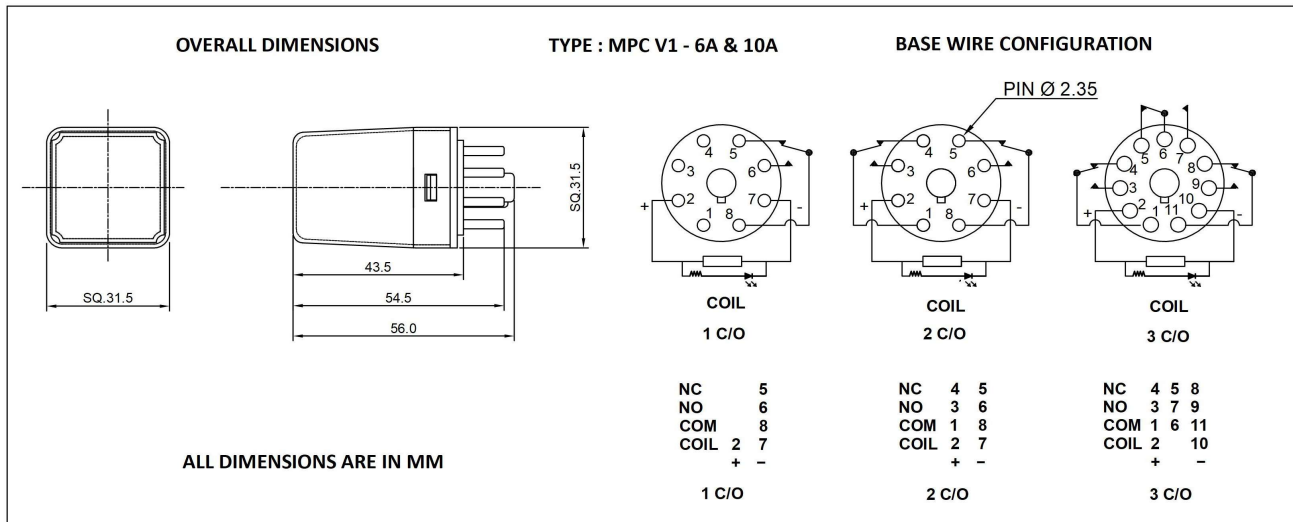


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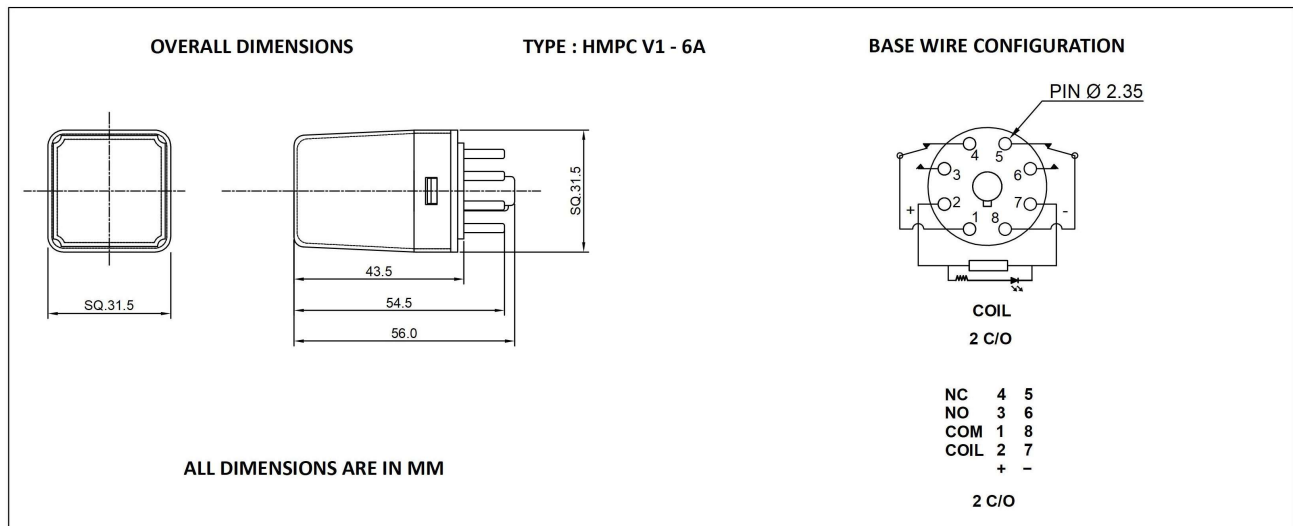


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OVERALL DIMENSIONS



OVERALL DIMENSIONS



NOTE :- 1) In case no tolerance shown in outline dimensions : Outline dimension 1mm, tolerance should be $\pm 0.2\text{mm}$
Outline dimension 1mm and 5mm, tolerance should be $\pm 0.3\text{mm}$ Outline dimension 5mm tolerance should be $\pm 0.4\text{mm}$
2) The tolerance without indicating for PCB layout is always $\pm 0.2\text{mm}$



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