

# MPC V1 SERIES RELAY

Power Saver series



## TECHNICAL SPECIFICATIONS

TYPE		MPC V1
TERMINAL TYPE		Plug In
CONTACT CONFIGURATION		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* & 12A*
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	6-250 VDC
	AC	6-415 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	1500 VRMS
	COIL TO CONTACT	2000 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 <sup>5</sup>
MECHANICAL LIFE (NO OF OPERATIONS)		10 <sup>7</sup>
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		31.6 x 31.6 x 56.3
MAX WEIGHT IN GRAMS (APPROX.)		41.0 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 & 12A** @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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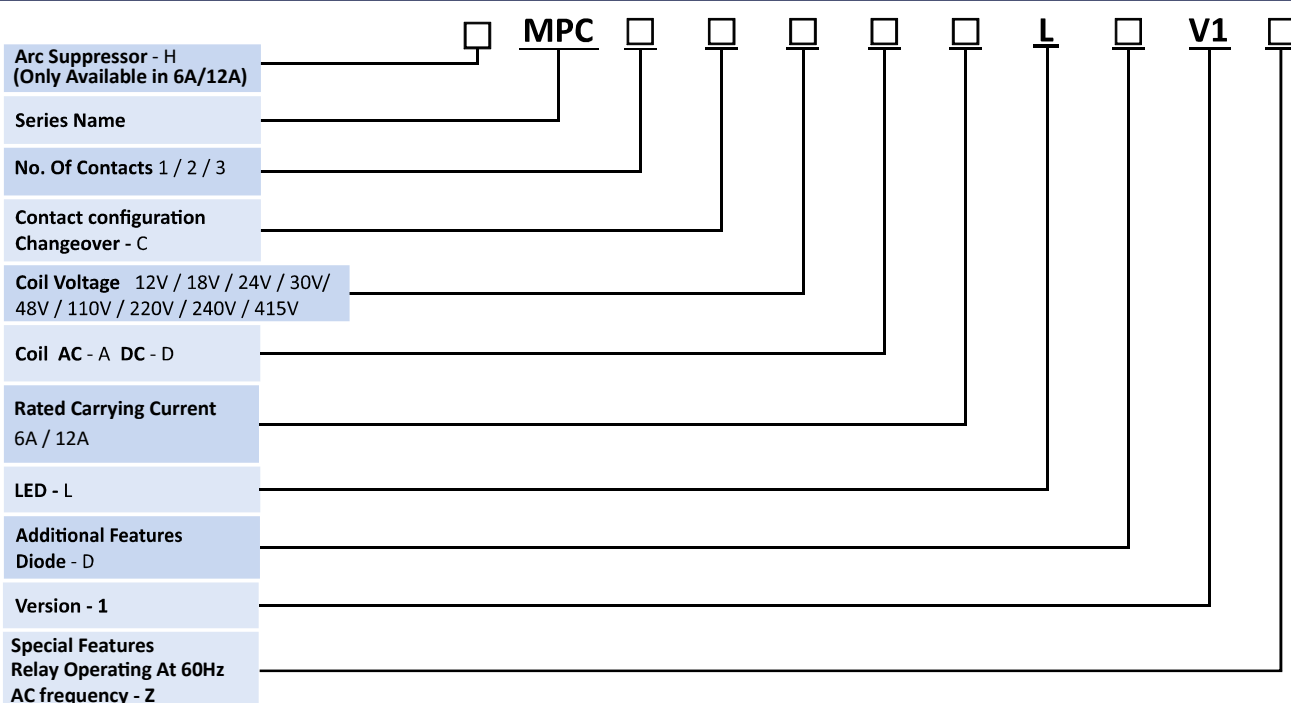


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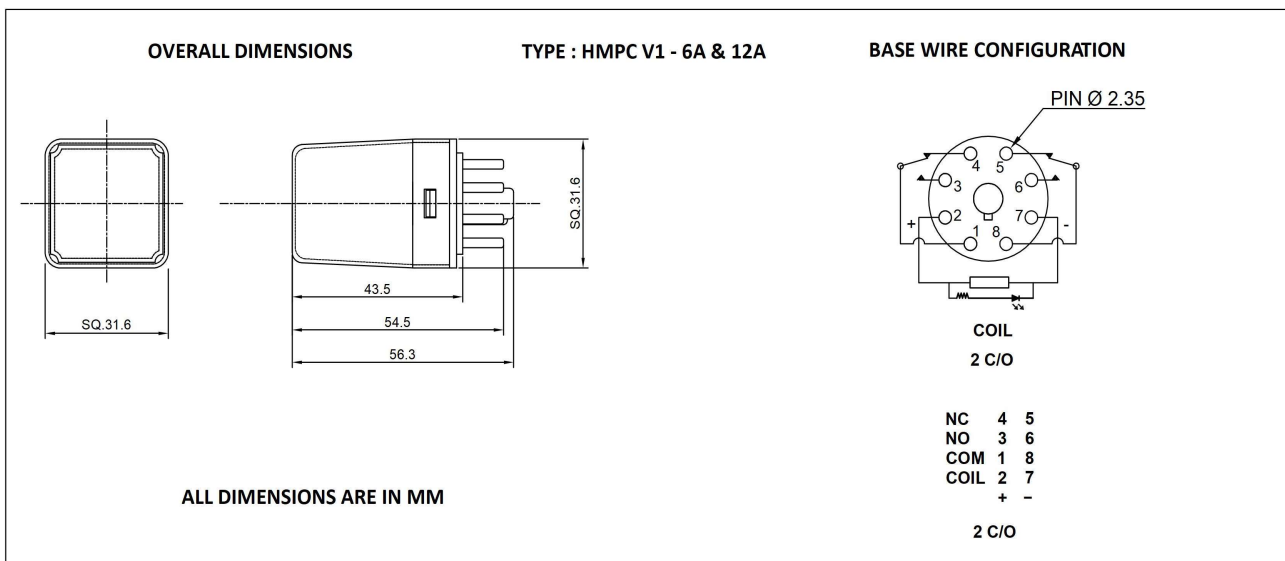
## COIL-DATA (6A-12A) (MPC V1 / HMPC V1) (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

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	0.89	-
240	-	19k	192	24.0	-	1.21
415	-	54k	332	41.5	-	1.28

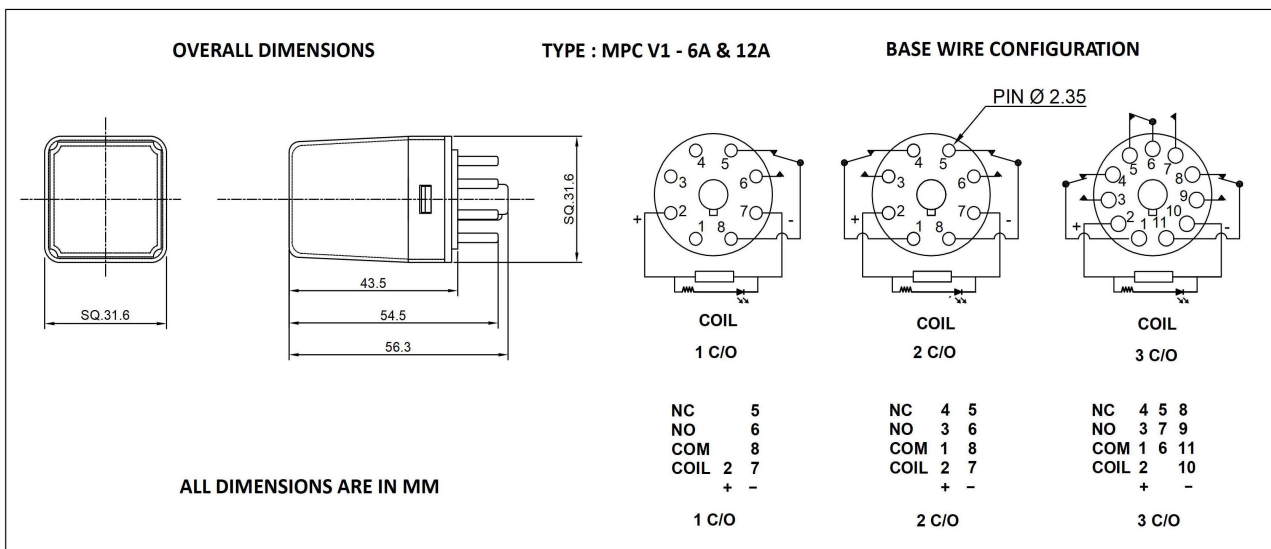
## ORDERING CODE FOR RELAY



## OVERALL DIMENSIONS



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

