MPC SERIES

HPC, HHPC & HMPC have been grouped together in MPC series.
MPC are known as CMR & HMPC are known as HDR.

TECHNICAL SPECIFICATIONS

TYPE		MPC			
TERMINAL TYPE		Plug In			
CONTACT CONFIGURATION		2C / 3C			2C
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC & 220VDC*		5A#	10A#	12A	16A
CONTACT MATERIAL		Silver alloy			
INITIAL CONTACT RESISTANCE		0.050 Ω			
COIL NOMINAL VOLTAGES	DC	6-250 V			
	AC	6-415 V @ 50 Hz / 60 Hz*			
OPERATING POWER (MIN-MAX) FOR DC COIL		0.72 - 1.25 W		1.20 - 1.25 W	
OPERATING POWER (MIN-MAX) FOR AC COIL		2.02 - 2.43 VA		2.42 - 3.60 VA	
DIELECTRIC STRENGTH BETWEEN	OPEN CONTACT	1500 VRMS		1800 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			
RELEASE TIME WITH DIODE (Max)		20 ms			
AMBIENT TEMPERATURE		-25˚C To +55˚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.		37.6 x 37.6 x 68			
MAX WEIGHT IN GRAMS (APPROX.)		75 gms			
INBUILT FEATURE		LED			
OPTIONAL FEATURES		DIODE			
STANDARDS		IEC 61810-1, IEC 60255-5 meeting as per JSS 50711 and JSS 50101			

(Photo For Representation Purpose Only)

CE# TÜV INDIA TÜV NORD GROUP RoHS COMPLIANT

SALIENT FEATURES

- High Reliability
- Elegant / Sturdy and Light weight
- ARC Suppressor*(HMPC)
- Dust Protected
- Excellent Isolation
- Medium Power Sources
- 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)This product is type tested by TUV Nord as per IEC 61810-1:2015-A1:2019
2) Recommended socket :- For **MPC 2C** is **MPCS 8** , For **MPC 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 & HHPC)** Available in **5A / 10A / 12A / 16A** @220VDC with 2 Changeover **(2C)** contact
6) *Special Relay With 60Hz Compatibility Available At Extra Charge.
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

COIL – DATA (5A / 10A) (MPC / HMPC) (ALL VALUES AT 27˚C ± 2˚AMBIENT, COLD START)

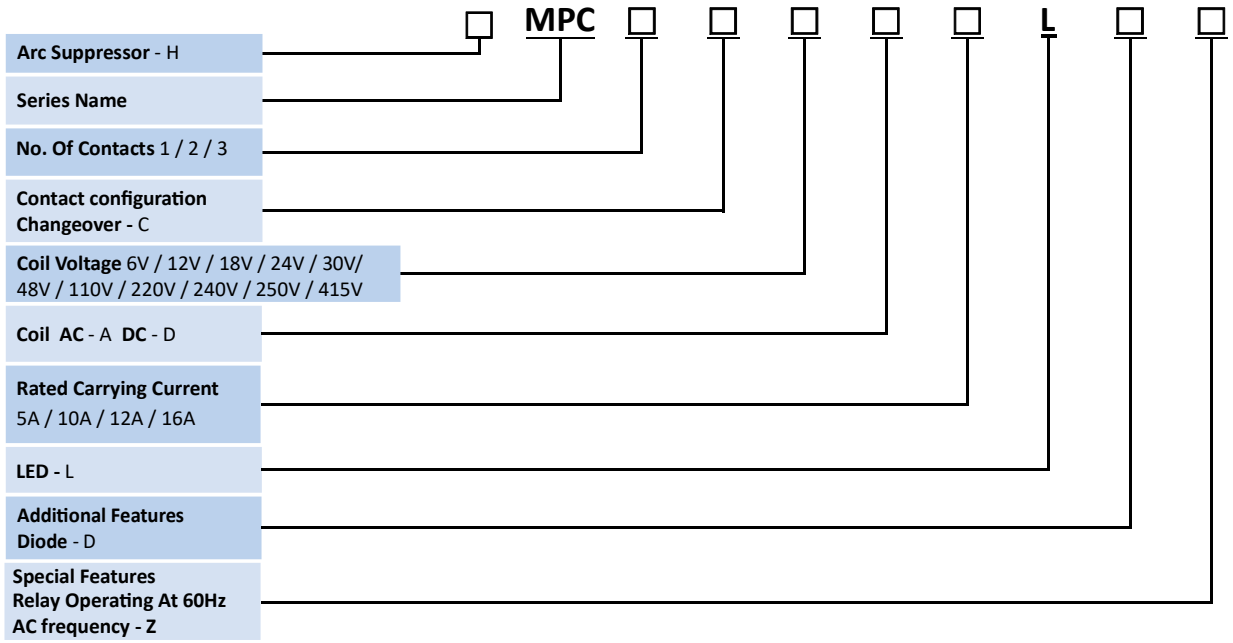
NOMINAL VOLTAGE (V)		RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
		DC RELAY	AC RELAY			DC (W)	AC (VA)
6		30	7	4.8	0.6	1.20	2.06
12	1C	200	30	9.6	1.2	0.72	1.92
	2C	200	30	9.6	1.2	0.72	1.92
	3C	150	30	9.6	1.2	0.96	1.92
18		390	-	14.4	1.8	0.83	-
24		500	110	19.2	2.4	1.15	2.09
30		750	-	24	3.0	1.2	-
48		2.25k	440	38.4	4.8	1.02	2.09
110		10k	2.4k	88	11	1.21	2.02
220		50k	-	176	22	1.21	-
240		-	9.5k	192	24	-	2.43
250		50k	-	200	25	1.25	-
415		-	27k	332	41.5	-	2.55

HMPC & HHPC Relay Available (MPC with Arc Suppressor)

COIL – DATA (12A / 16A) (HPC) (ALL VALUES AT 27˚C ± 2˚AMBIENT, COLD START)

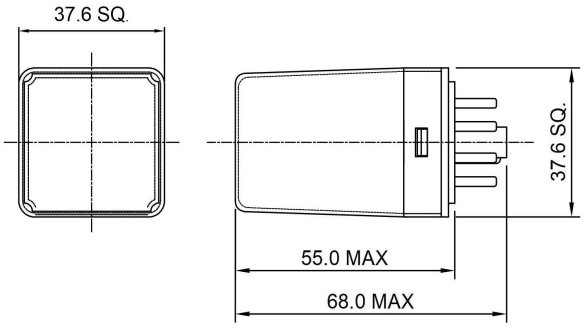
NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC RELAY	AC RELAY			DC (W)	AC (VA)
6	30	4	4.8	0.6	1.20	3.60
12	120	16	9.6	1.2	1.20	3.60
18	270	-	14.4	1.8	1.20	-
24	480	110	19.2	2.4	1.20	3.29
30	750	-	24	3.0	1.2	-
48	1.9k	-	38.4	4.8	1.21	-
110	10k	2.4k	88	11	1.21	2.42
220	40k	-	176	22	1.21	-
240	-	9.5k	192	24	-	2.43
250	45k	-	200	25	1.38	-
415	-	27k	332	41.5	-	2.55

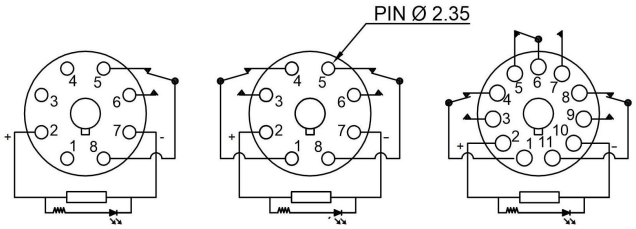
ORDERING CODE FOR RELAY



OVERALL DIMENSIONS

OVERALL DIMENSIONS **TYPE : MPC - 5A , 10A , 12A & 16A** **BASE WIRE CONFIGURATION**

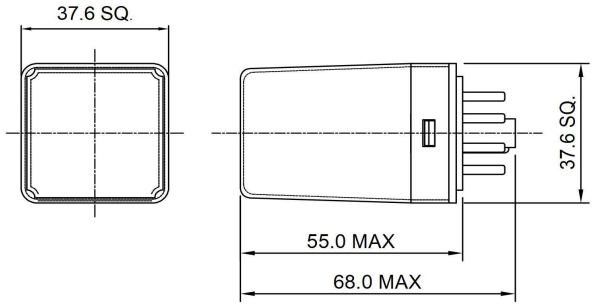


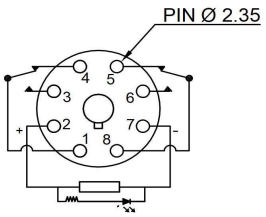


	1C	2C	3C
	COIL	COIL	COIL
NC	5	4 5	4 5 8
NO	6	3 6	3 7 9
COM	8	1 8	1 6 11
COIL	2 7	2 7	2 10
	+ –	+ –	+ –

ALL DIMENSIONS ARE IN MM

OVERALL DIMENSIONS **TYPE : HMPC - 5A , 10A , 12A & 16A** **BASE WIRE CONFIGURATION**





	2C
	COIL
NC	4 5
NO	3 6
COM	1 8
COIL	2 7
	+ –

ALL DIMENSIONS ARE IN MM

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