

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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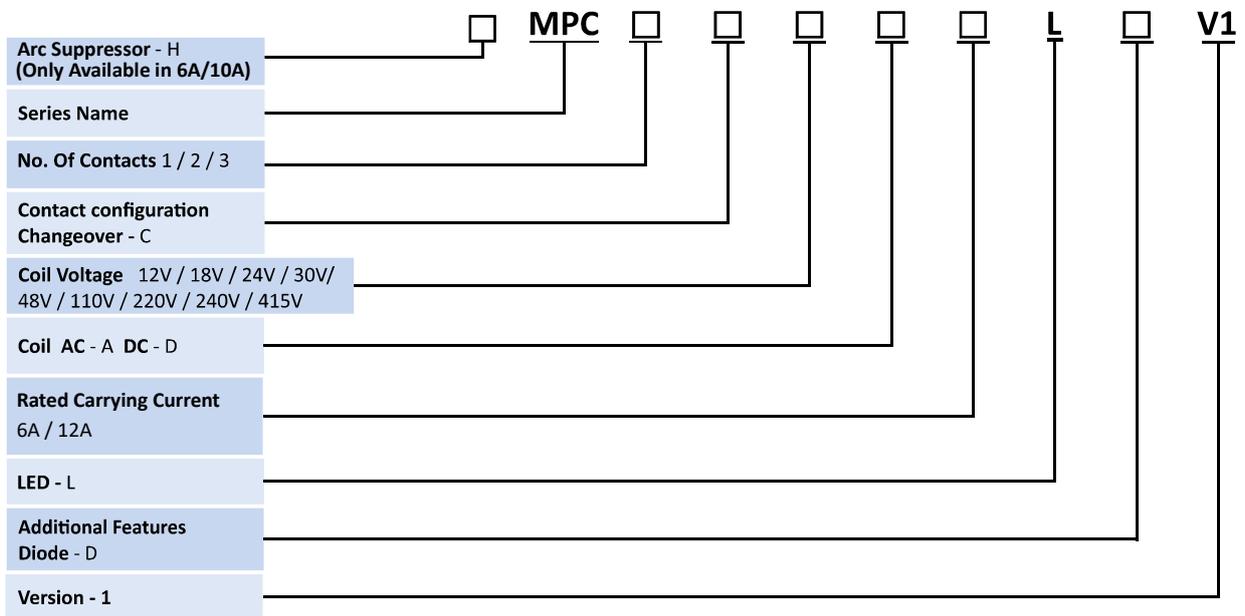


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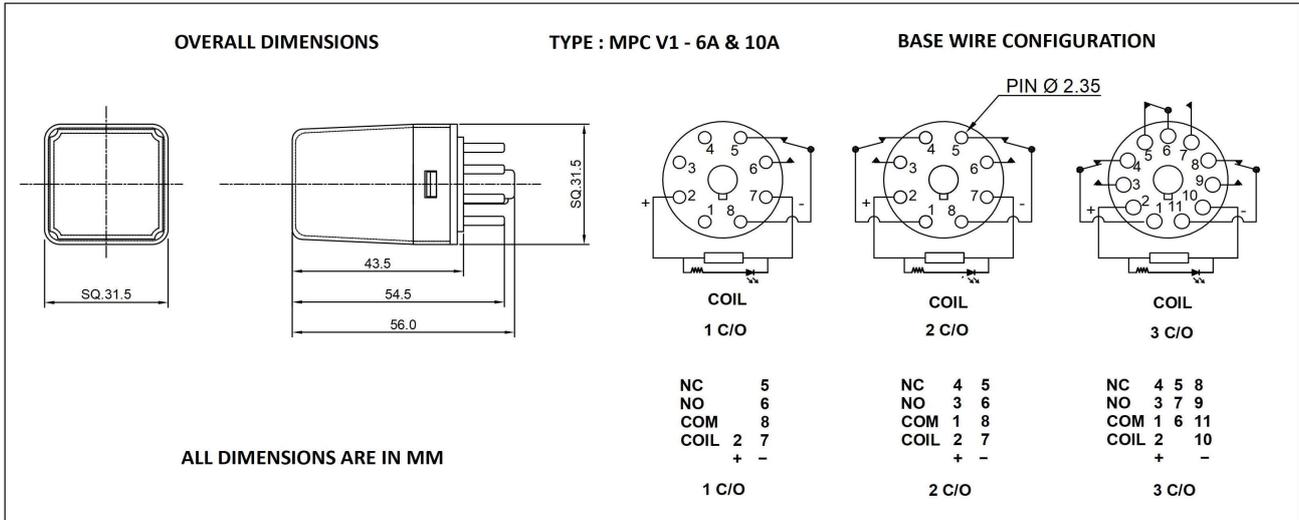
COIL-DATA (6A-12A / 6A-10A) (MPC / HMPC) (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

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

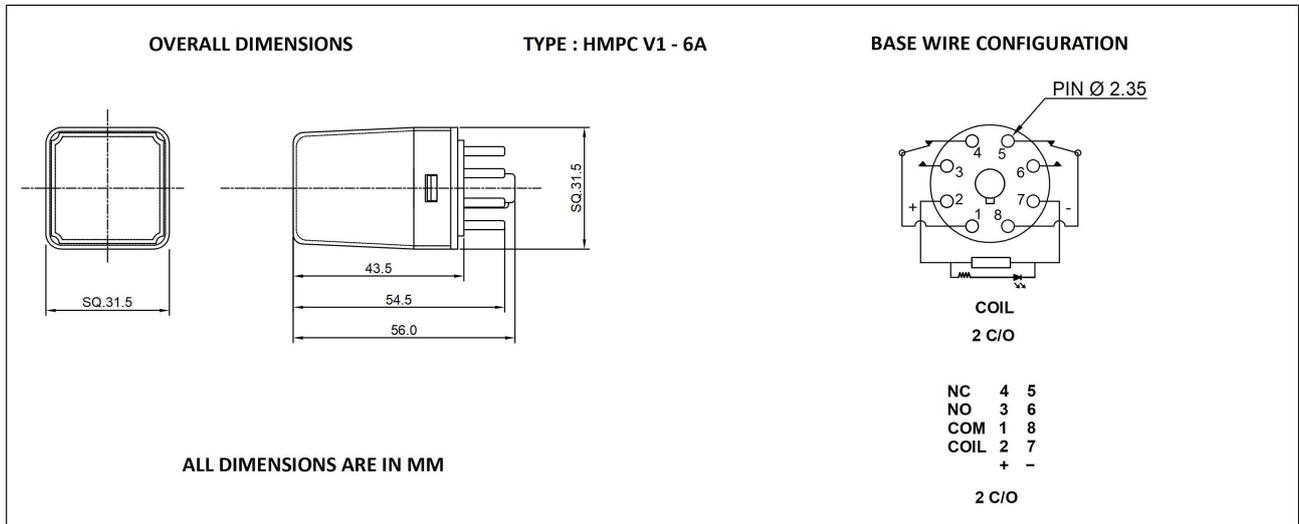
ORDERING CODE FOR RELAY



OVERALL DIMENSIONS



OVERALL DIMENSIONS



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

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		1C / 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		1.92 - 2.43 VA		2.42 - 3.60 VA	
DIELECTRIC STRENGTH BETWEEN	OPEN CONTACT	1500 V _{RMS}		1800 V _{RMS}	
	COIL TO CONTACT	2000 V _{RMS}			
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 +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 x 37 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)



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 MPC8, For MPC 3C is MPC11

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

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

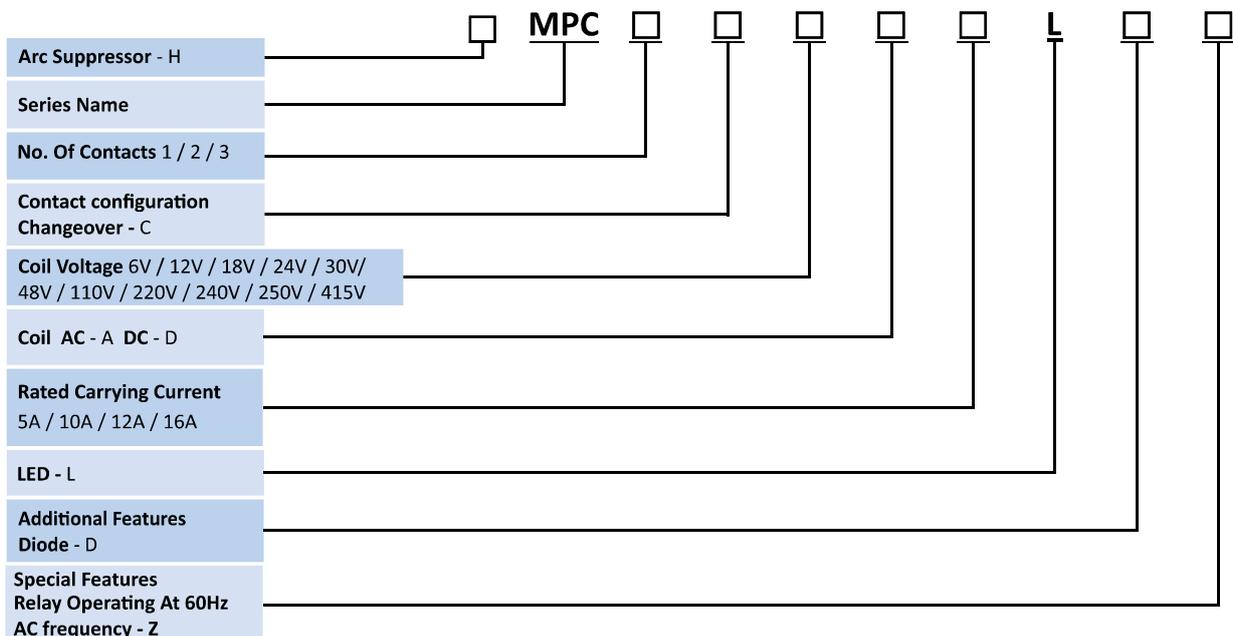
NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC RELAY	AC RELAY			DC (W)	AC (VA)
6	30	7	4.8	0.6	1.20	2.06
12	1C	200	30	9.6	1.2	1.92
	2C	200	30	9.6	1.2	1.92
	3C	150	30	9.6	1.2	1.92
18	390	-	14.4	1.8	0.83	-
24	500	110	19.2	2.4	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	54k	-	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	2k	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

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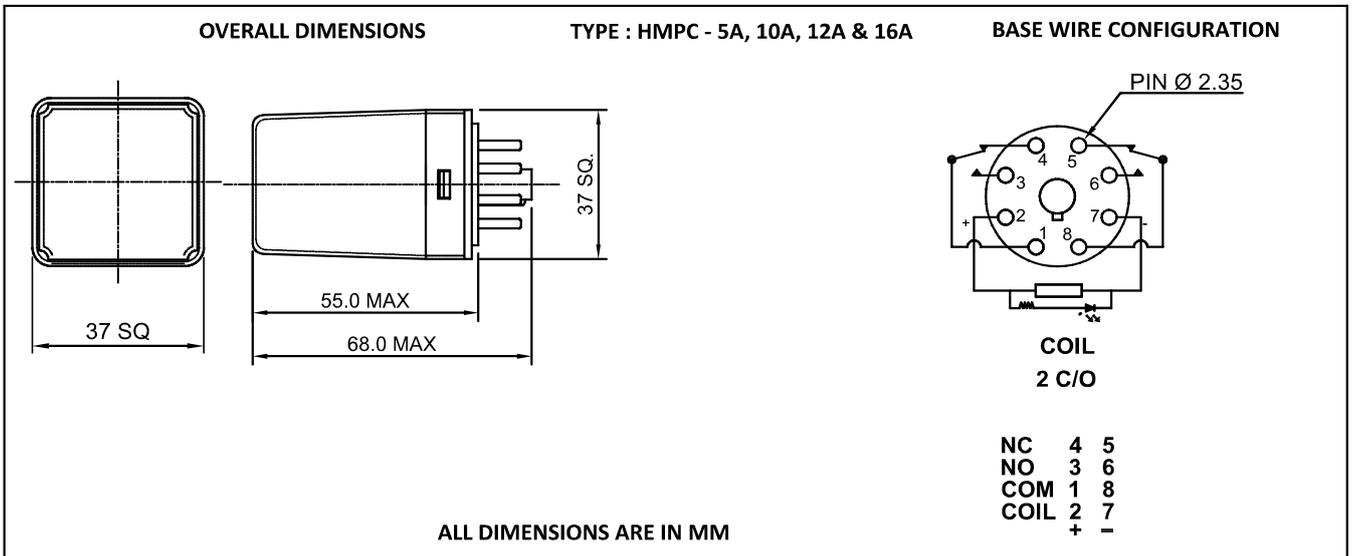
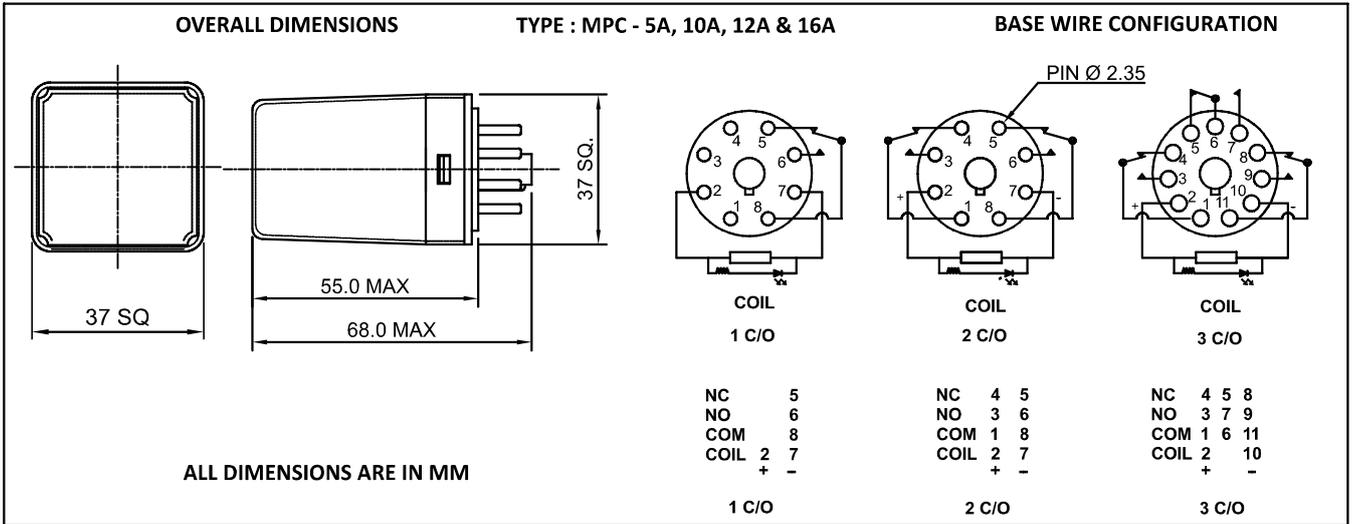
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OVERALL DIMENSIONS



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 $\pm 0.2\text{mm}$

TECHNICAL SPECIFICATIONS

TYPE		LPR 30E
TERMINAL TYPE		Solder / Lugs
CONTACT CONFIGURATION		1C
RATED CARRING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		30 A
CONTACT MATERIAL		Silver alloy
INITIAL CONTACT RESISTANCE (MAX)		0.050 Ω
COIL NOMINAL VOLTAGES	DC	12 - 110 V
	AC	240 V @50Hz
OPERATING POWER (MIN-MAX) FOR DC COIL		1.2 - 1.21 W
OPERATING POWER (MIN-MAX) FOR AC COIL		2.42 - 3.6 VA
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	2000 V _{RMS}
	COIL TO CONTACT	2000 V _{RMS}
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		100 MΩ
OPERATE TIME (MAX)		20 ms
RELEASE TIME (MAX)		10 ms
AMBIENT TEMPERATURE		-25°C To + 55°C
ELECTRICAL LIFE (NO OF OPERATIONS)		50000
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁶
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		37.2 X 55 X 47.5
MAX WEIGHT IN GRAMS (APPROX.)		80 gms
MOUNTING		Metal base plate
STANDARDS		IEC 61810-1



(Photo For Representation Purpose Only)



SALIENT FEATURES

- Compact Size
- Elegant
- Reliable

APPLICATIONS

- Voltage Stabilizers
- Furnace Controls
- Process Controls
- Inventors
- Heaters
- Vending Machines
- Domestic Appliances

NOTE:- 1) This product is type tested by TUV Nord as per IEC 61810-1:2015-A1:2019

2) All Specification / Dimensions subject to Tolerance.

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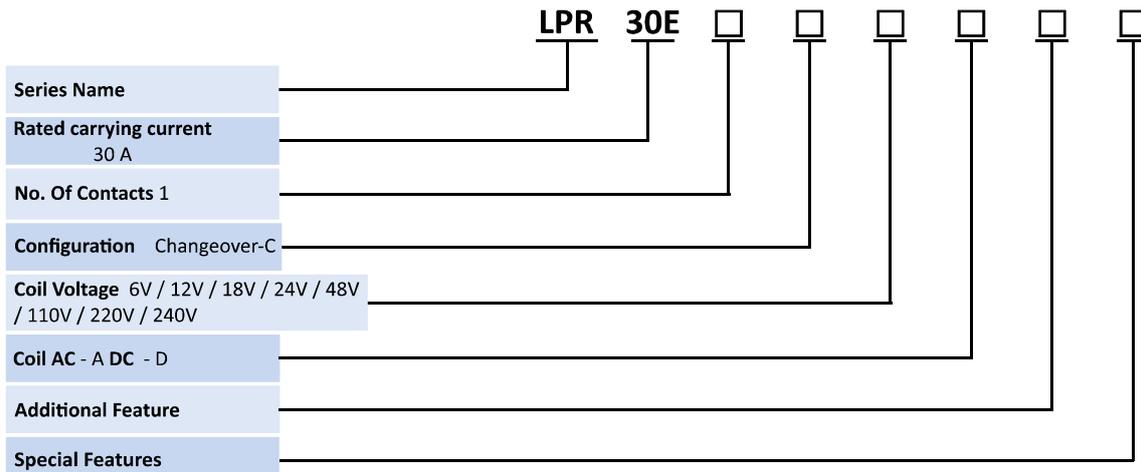


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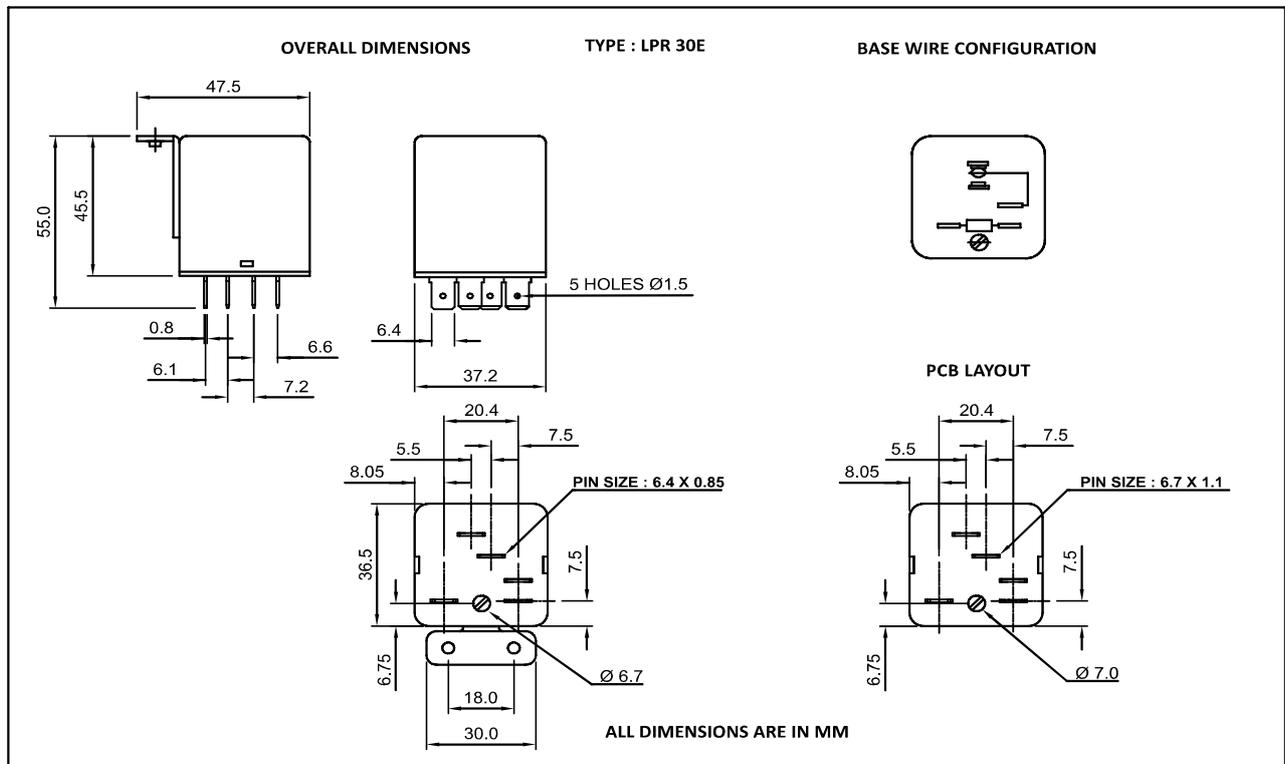
COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		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	1.2	3.6
12	120	16	9.6	1.2	1.2	3.6
18	270	-	14.4	1.8	1.2	-
24	480	110	19.2	2.4	1.2	3.29
48	1.9k	-	38.4	4.8	1.21	-
110	10k	2k	88	11	1.21	2.42
220	40k	-	176	22	1.21	-
240	-	9.5k	192	24	-	2.42

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DIMENSIONS



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



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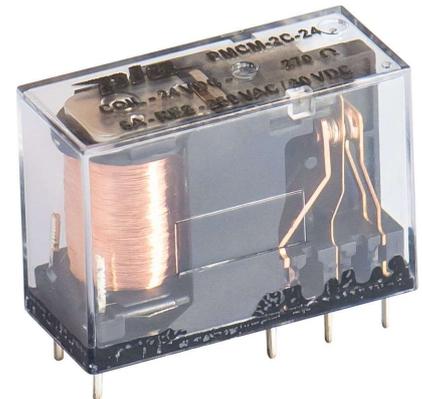
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TECHNICAL SPECIFICATIONS

TYPE		PMCM
TERMINAL TYPE		PCB / Plug In
CONTACT CONFIGURATION		1C 2C
RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC / 240 VAC		12A & 16A 8A
CONTACT MATERIAL		Silver alloy
INITIAL CONTACT RESISTANCE (MAX)		0.050 Ω
COIL NOMINAL VOLTAGES	DC	12-24 V
	AC	240 V @50Hz
OPERATING POWER (MIN-MAX) FOR DC COIL		0.53 - 0.55 W
OPERATING POWER (MIN-MAX) FOR AC COIL		0.65 VA
DIELECTRIC STRENGTH BETWEEN	OPEN CONTACT	1000 V _{RMS}
	COIL TO CONTACT	5000 V _{RMS}
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		1000 MΩ
OPERATE TIME (MAX)		20 ms
RELEASE TIME (MAX)		10 ms
AMBIENT TEMPERATURE		-20°C To +70°C
ELECTRICAL LIFE (NO OF OPERATIONS)		10 ⁵
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁶
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		12.7 x 29.0 x 20.4(+4.0)
MAX WEIGHT IN GRAMS (APPROX.)		20 gms
INBUILT FEATURE		LED
STANDARDS		IEC 61810-1



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SALIENT FEATURES

- SUB Miniature
- PCB Mountable
- High Capacity
- Low Profile
- Suitable for Relay Module

APPLICATIONS

- Contact Multiplying Relays
- Automation

NOTE :-

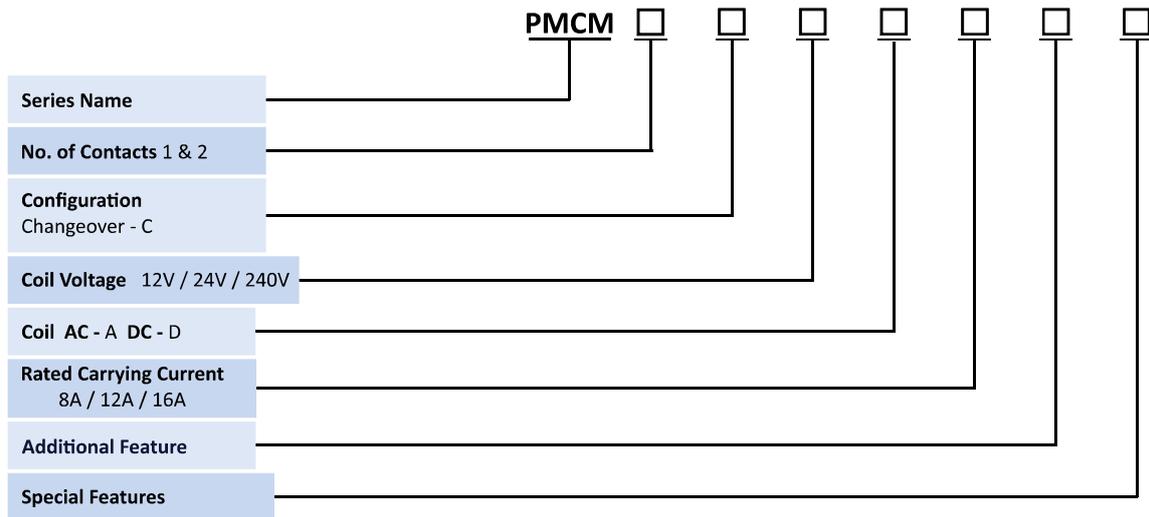
- 1) Recommended Socket :- For PMCM 1C / 2C is PMCMS - 5 / 8
- 2) All Specification / Dimensions subject to Tolerance.
- 3) Any Techno commercial changes is / are prerogative of Manufacturer / Management / of the Company which can be done without any notice.



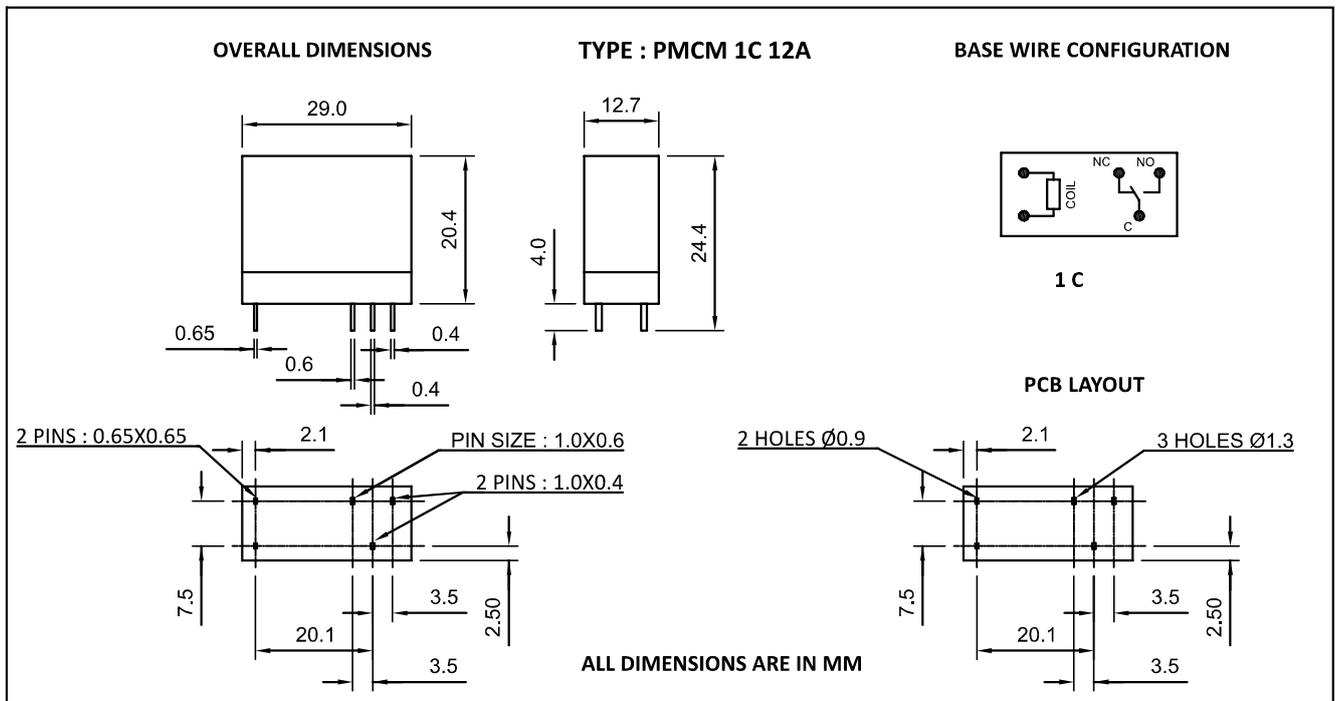
COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC	AC			DC (W)	AC (VA)
12	270	-	9.6	1.2	0.53	-
24	1.05k	-	19.2	2.4	0.55	-
240	-	35k	192	24	-	0.65

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DIMENSIONS



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



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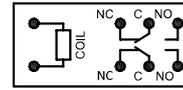
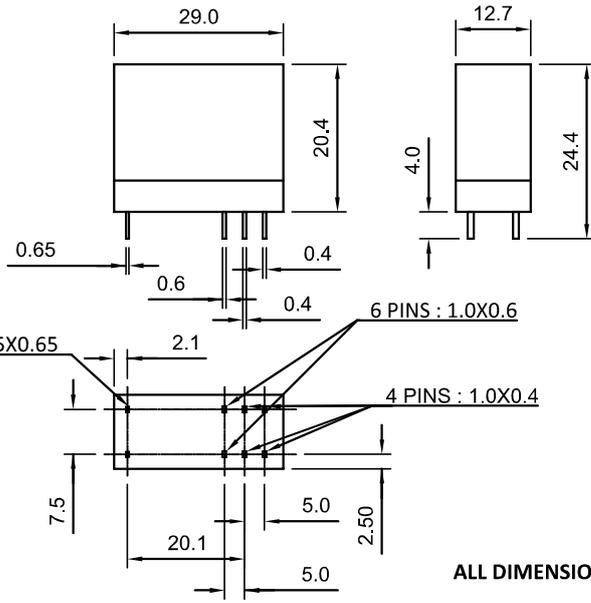


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OVERALL DIMENSIONS

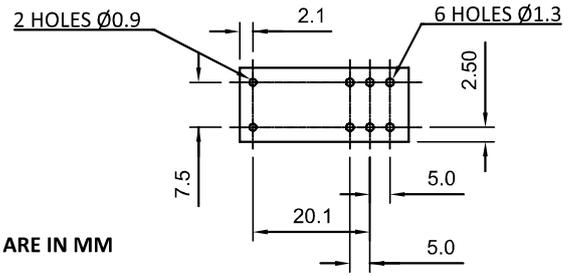
TYPE : PMCM 2C 8A & PMCM 1C 16A

BASE WIRE CONFIGURATION



2 C

PCB LAYOUT



ALL DIMENSIONS ARE IN MM



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PSR SERIES

(RELAYS WITH FORCIBLY GUIDED CONTACT)



TECHNICAL SPECIFICATIONS

TYPE		SAFETY RELAY
TERMINAL TYPE		PCB
CONTACT CONFIGURATION		2NO + 2NC & 3NO + 1NC
RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC / 250 VAC		6 A
CONTACT MATERIAL		Silver alloy
INITIAL CONTACT RESISTANCE (MAX)		100mΩ Max
COIL NOMINAL VOLTAGES	DC	6 - 48 V
OPERATING POWER (MIN-MAX) FOR DC COIL		360 mW
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	1500 VRMS
	COIL TO CONTACT	4000 VRMS
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		1000 MΩ
OPERATE TIME (MAX)		20 ms
RELEASE TIME (MAX)		20 ms
AMBIENT TEMPERATURE		-40 C To +85°C
ELECTRICAL LIFE (NO OF OPERATIONS)		10 ⁵
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁷
FORCIBLY GUIDED CONTACTS TYPE (ACC TO EN50205)		TYPE A
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		13 x 40 x 24
MAX WEIGHT IN GRAMS (APPROX.)		20 gms
INBUILT FEATURES		LED



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SALIENT FEATURES

- Multi-contact arrangements
- Forcibly guided contacts
- 6A switching capability
- Low input power 360mW
- High insulation capability :10kV surge voltage between input and output
- UL insulation system : class F available

APPLICATIONS

- Emergency stop modules
- Two hand operating devices
- Pressure mat controls
- Elevators / Escalators
- Din Rail Safety Modules
- Safety door controls
- Speed Controls

NOTE :- 1)Recommended socket :- PSRS

2) All Specification / Dimensions subject to Tolerance

3) Gold plated contacts available with extra charges

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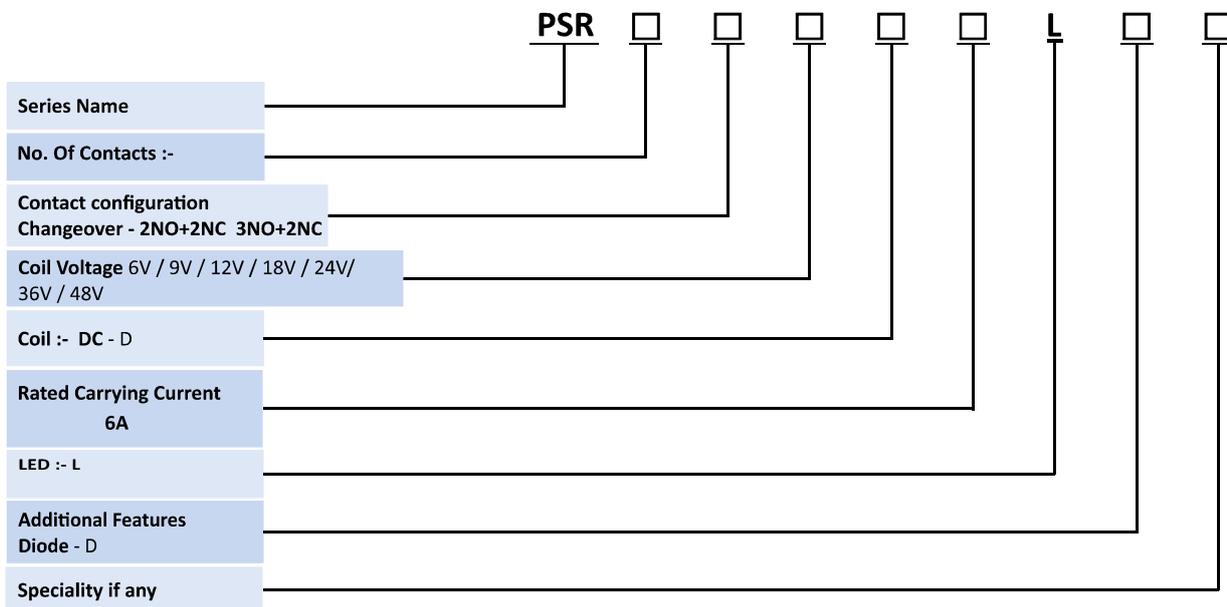
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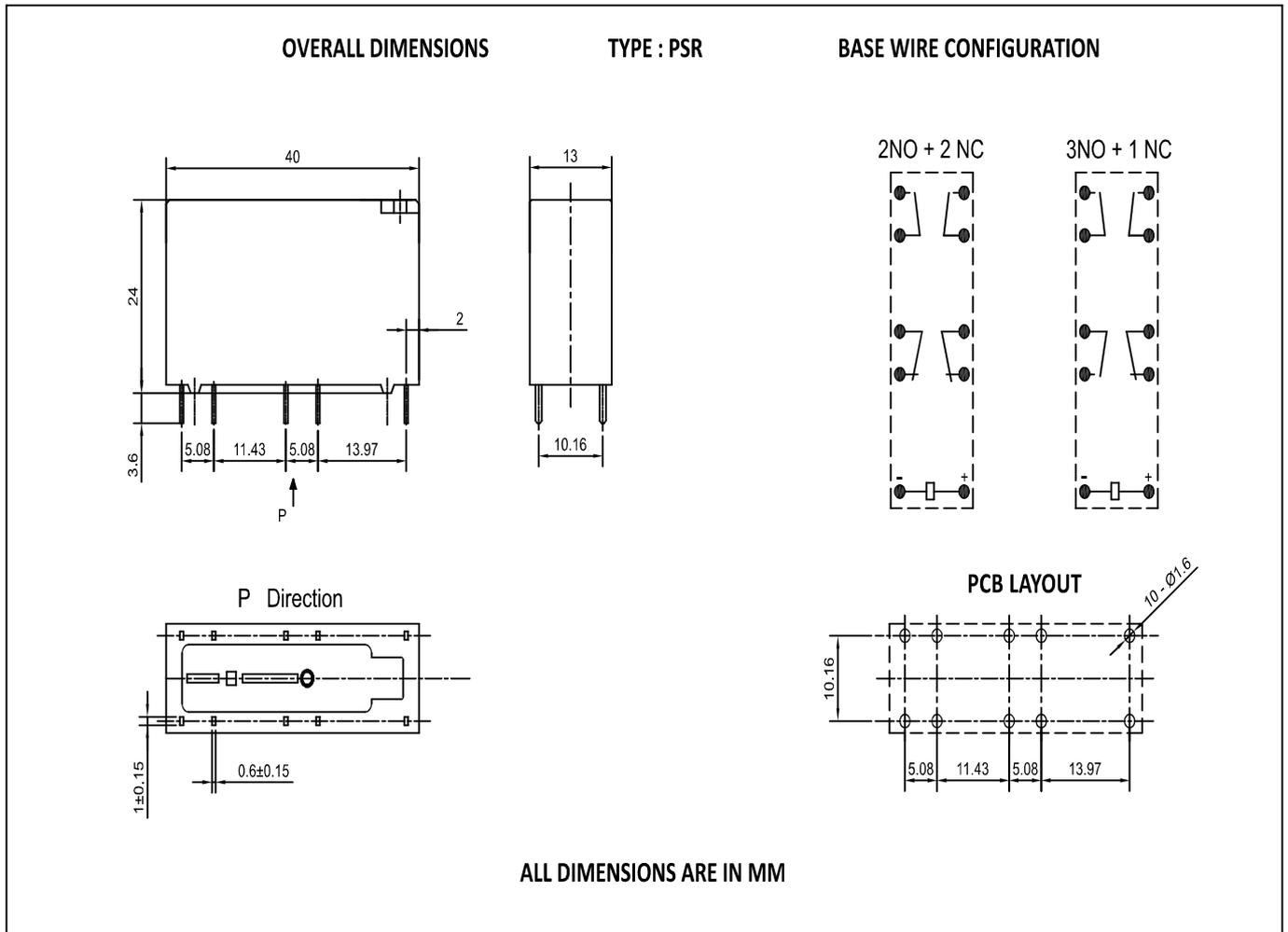
COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%	MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL
	DC RELAY			DC (W)
6	100	4.5	0.6	0.36
9	225	6.8	0.9	0.36
12	400	9.0	1.2	0.36
18	900	13.5	1.8	0.36
24	1.6k	18.0	2.4	0.36
36	3.6k	27.0	3.6	0.36
48	6.4k	36.0	4.8	0.36

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OVERALL DIMENSIONS



NOTE :- 1) In case no tolerance shown in outline dimensions :

Outline dimension 1mm, tolerance should be ± 0.2 mm

Outline dimension 1mm and 5mm, tolerance should be ± 0.3 mm

Outline dimension 5mm tolerance should be ± 0.4 mm

2) The tolerance without indicating for PCB layout is always ± 0.2 mm



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TECHNICAL SPECIFICATIONS

TYPE		LPR 80
TERMINAL TYPE		Screw Terminals
CONTACT CONFIGURATION		1 C, 1 N/O, 1 N/C
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		80A
CONTACT MATERIAL		Silver alloy
INITIAL CONTACT RESISTANCE (MAX)		0.050 Ω
COIL NOMINAL VOLTAGES	DC	12-24 V
	AC	240 V@50Hz
OPERATING POWER (MIN-MAX) FOR DC COIL		3.0 W
OPERATING POWER (MIN-MAX) FOR AC COIL		4.90 VA
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	2000 V _{RMS}
	COIL TO CONTACT	2000 V _{RMS}
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		1000 MΩ
OPERATE TIME (MAX)		20 ms
RELEASE TIME (MAX)		10 ms
AMBIENT TEMPERATURE		-25°C To +55°C
ELECTRICAL LIFE (NO OF OPERATIONS)		10000
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁶
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		48.0 X 82.5 X 70.5
MAX WEIGHT IN GRAMS (APPROX.)		225 gms
MOUNTING		Molded base plate
STANDARDS		IEC 61810-1



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SALIENT FEATURES

- Compact Size
- Screw Terminals
- Elegant
- Reliable

APPLICATIONS

- Voltage Stabilizers
- Furnace Controls

NOTE :- 1) This product is type tested by TUV Nord as per IEC 61810-1:2015-A1:2019

2) All Specification / Dimensions subject to Tolerance.

3) Any Techno commercial changes is / are prerogative of Manufacturer / Management / of the Company which can be done without any notice.



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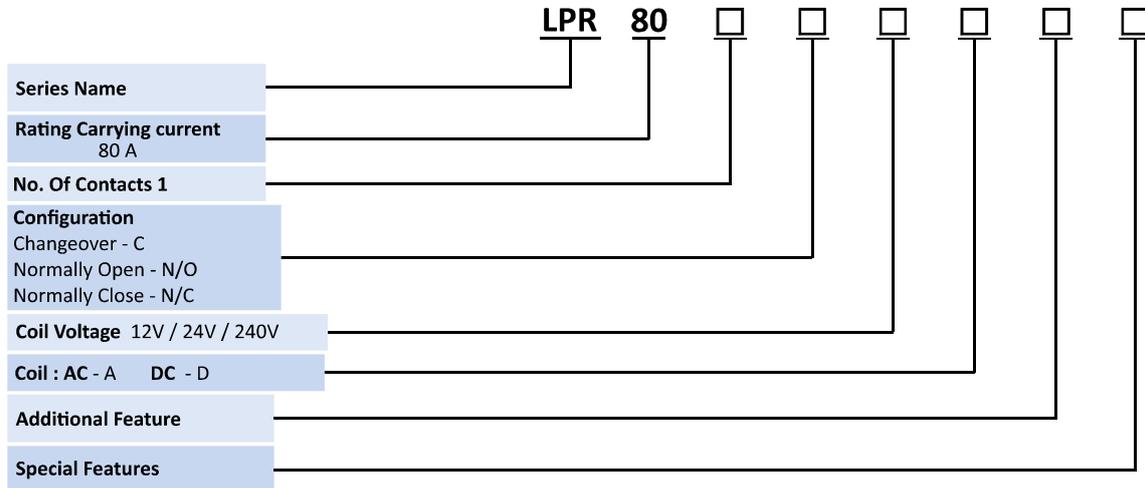


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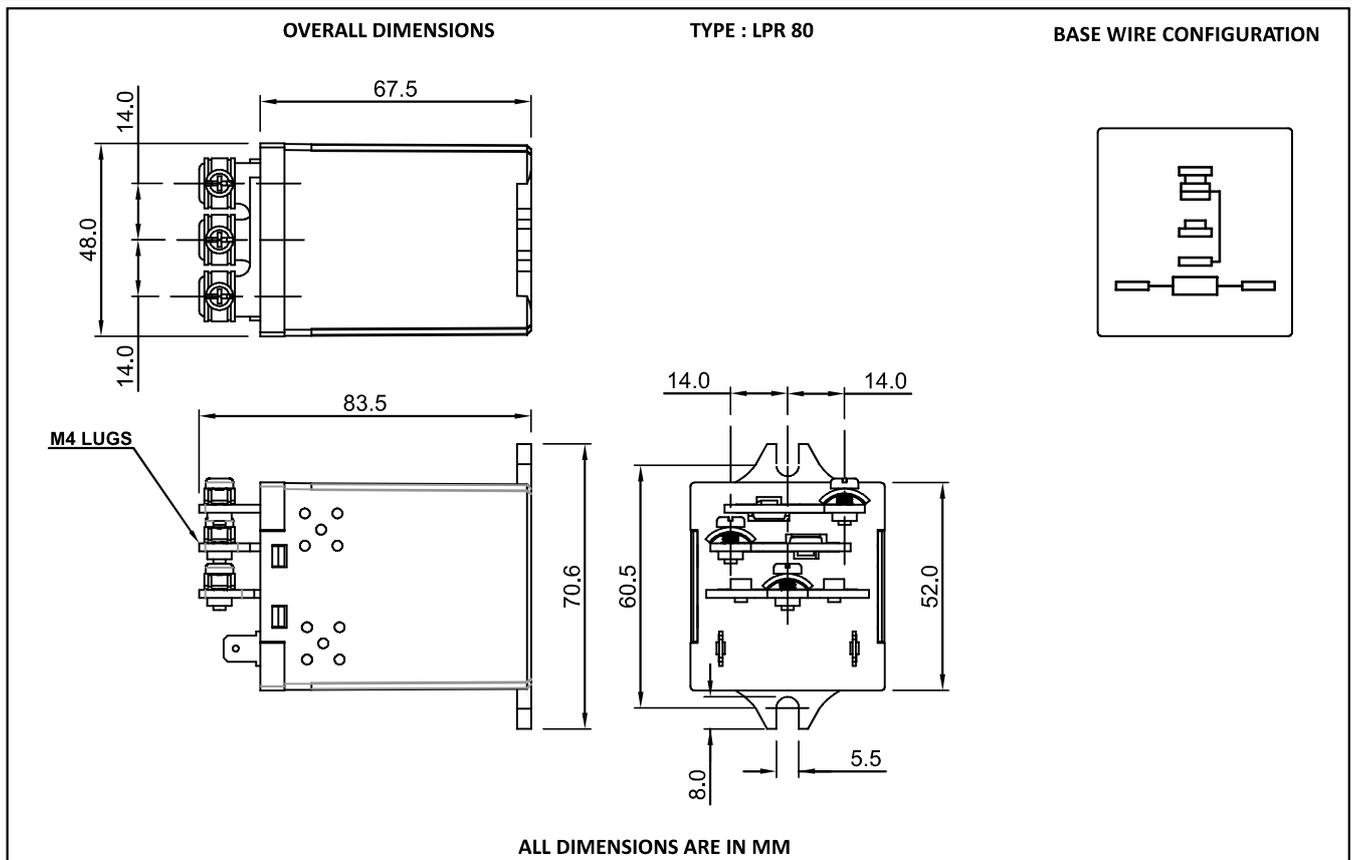
COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC	AC			DC (W)	AC (VA)
12	48	-	9.6	1.2	3.0	-
24	192	-	19.24	2.4	3.0	-
240	-	4.7K	192	24	-	4.90

ORDERING CODE FOR RELAY



DIMENSIONS



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



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TECHNICAL SPECIFICATIONS

TYPE		LPR 100
TERMINAL TYPE		Screw Terminals
CONTACT CONFIGURATION		1 C, 1 N/O, 1 N/C
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		100 A
CONTACT MATERIAL		Silver alloy
INITIAL CONTACT RESISTANCE (MAX)		0.050 Ω
COIL NOMINAL VOLTAGES	DC	12-24 V
	AC	240 V @50Hz
OPERATING POWER (MIN-MAX) FOR DC COIL		3 W
OPERATING POWER (MIN-MAX) FOR AC COIL		4.90 VA
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	2000 V _{RMS}
	COIL TO CONTACT	2000 V _{RMS}
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		1000 MΩ
OPERATE TIME (MAX)		20 ms
RELEASE TIME (MAX)		10 ms
AMBIENT TEMPERATURE		-25°C To +55°C
ELECTRICAL LIFE (NO OF OPERATIONS)		10000
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁶
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		62.8 X 70.6 X 97.8
MAX WEIGHT IN GRAMS (APPROX.)		265 gms
MOUNTING		Molded base plate
STANDARDS		IEC 61810-1



(Photo For Representation Purpose Only)



SALIENT FEATURES

- Compact Size
- Screw Terminals
- Elegant
- Reliable

APPLICATIONS

- Voltage Stabilizers
- Furnace Controls

NOTE :- 1) This product is type tested by TUV Nord as per IEC 61810-1:2015-A1:2019

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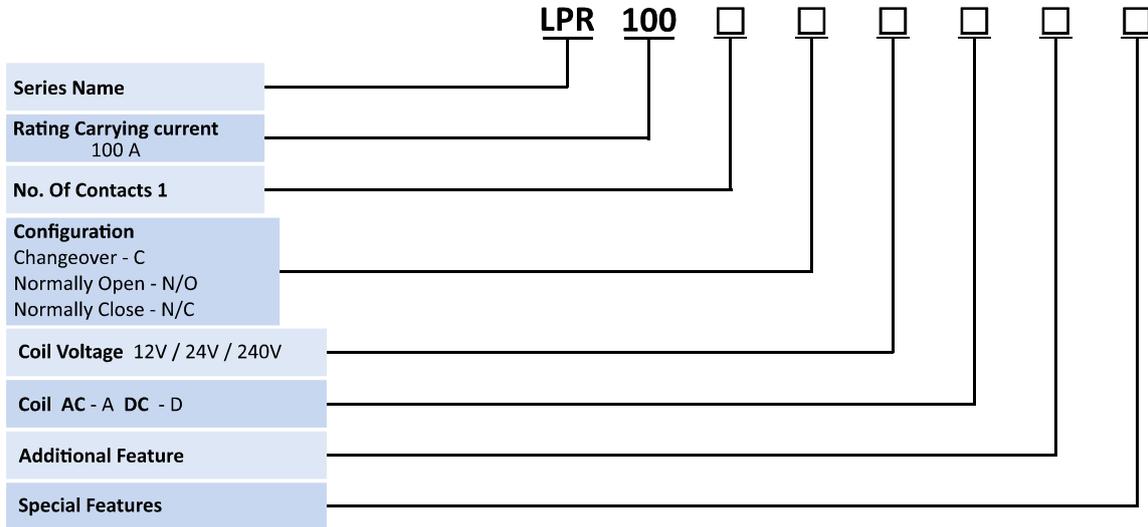


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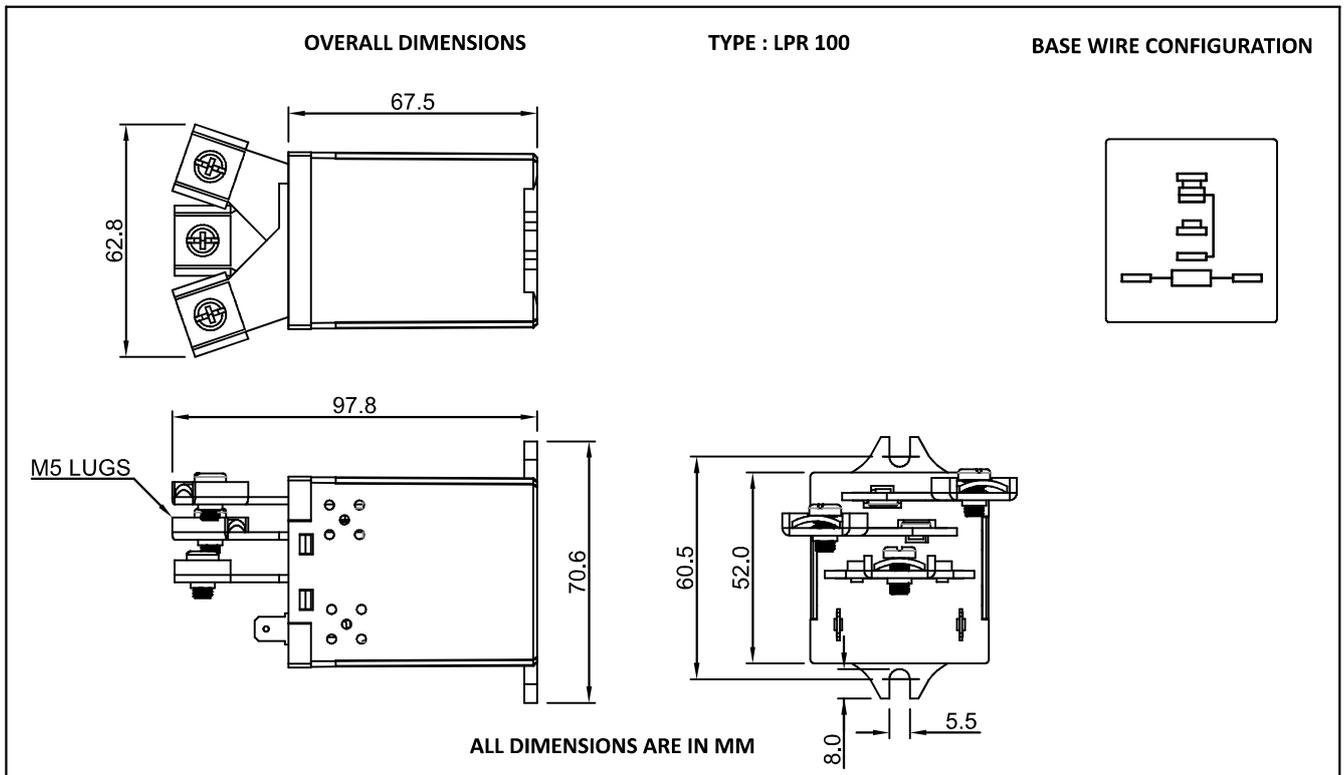
COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC	AC			DC (W)	AC (VA)
12	48	-	9.6	1.2	3.0	-
24	192	-	19.2	2.4	3.0	-
240	-	4.7K	192	24	-	4.90

ORDERING CODE FOR RELAY



DIMENSIONS



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



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TECHNICAL SPECIFICATIONS

PARAMETERS		TYPE		
TERMINAL TYPE		SOLDER		
CONTACT CONFIGURATION		1C	2C	3C
RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC/250 VAC		6A & 10A	6A & 10A	6A & 10A
MAX. PEAK INRUSH CURRENT (20ms)		30A & 60A	30A & 60A	30A & 60A
CONTACT MATERIAL		Silver alloy		
INDUCTIVE LOAD		1/2 HP at 277 VAC (6A Relay) 1 HP at 277 VAC (10A Relay)		
INITIAL CONTACT RESISTANCE		0.050 Ω		
COIL NOMINAL VOLTAGES	AC Coil	12-240 VAC @50Hz/ 60Hz*		
	DC Coil	12-220 VDC		
PICKUP VOLTAGE		80% maximum		
RELEASE VOLTAGE		10% minimum		
OPERATING POWER (MIN - MAX)	DC Coil	0.89W - 1.15 W		
	AC Coil	1.10VA - 1.25VA		
MAXIMUM SWITCHING VOLTAGE		24 VDC / 250 VAC		
MAX SWITCHING CAPACITY (POWER RATING)		1250VA FOR 6A		
		2500VA FOR 10A		
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	1000 V _{RMS}		
	BETWEEN COIL & CONTACT	2500 V _{RMS}		
INSULATION RESISTANCE AT 500 VDC AT 27°C & 50% RH		100 MΩ		
OPERATE TIME (MAX)		20 ms		
RELEASE TIME (MAX)		10 ms		
AMBIENT TEMPERATURE		-40°C To +70°C		
ELECTRICAL LIFE (NO OF OPERATIONS)		10 ⁵		
MECHANICAL LIFE (NO OF OPERATIONS)		2 x 10 ⁶		
SHOCK RESISTANCE		Destruction : 1000m/s Operative Extremes 150m/s ²		
VIBRATION RESISTANCE		Destruction : 10-55Hz Complitude : 0.5mm		
PROTECTION DEGREE		IP 40 / RT 1		
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		25.0 x 30.5 x 49.0		
MAX WEIGHT IN GRAMS (APPROX.)		42 gms		
OPTIONAL FEATURE		Diode		
STANDARDS		IEC 61810-1 ,CE		



(Photo For Representation Purpose Only)



SALIENT FEATURES

- Miniature Industrial Relay
- Long Life & High Reliability
- Dust Protected

NOTE:- 1) This product is type tested by TUV Nord as per IEC 61810-1:2015-A1:2019

2) All Specification / Dimensions subject to Tolerance.

3) Contact form 1 A and 1 B available on request .

4) Any Techno commercial changes is / are prerogative of Manufacturer / Management of the company which can be done without any notice.



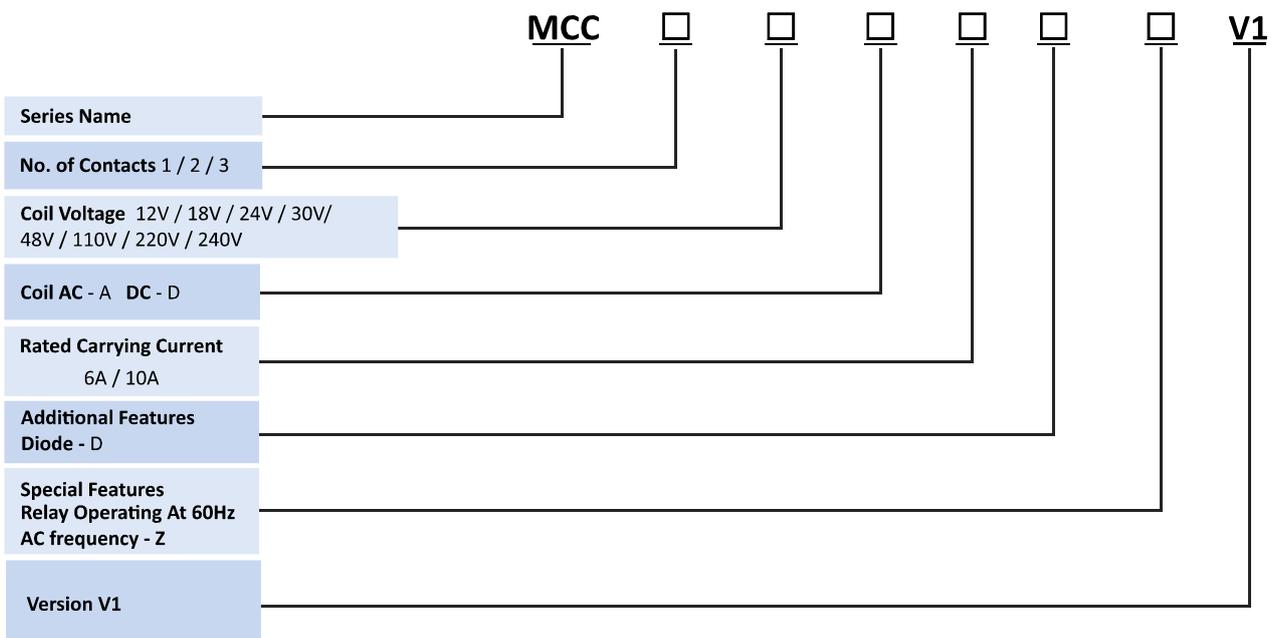
APPLICATIONS

• Industrial Controls	• Office Automation	• PLC's
• Timers		

COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT)

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	-	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	-	200	22.0	0.97	-
240	-	19k	192	24.0	-	1.21

ORDERING CODE FOR RELAY

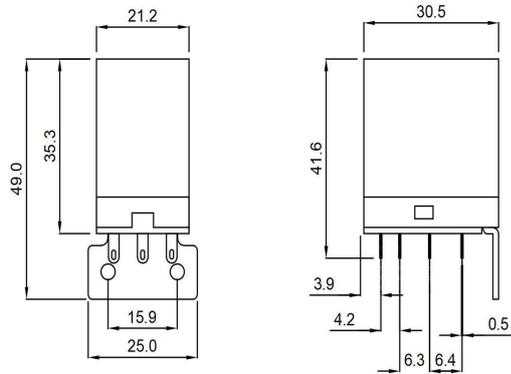


DIMENSIONS

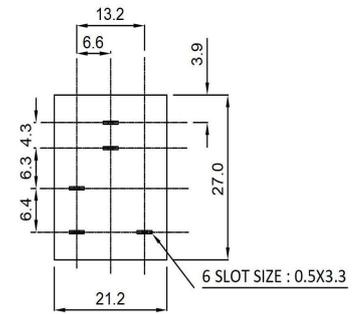
OVERALL DIMENSIONS

TYPE : MCC V1

BASE WIRE CONFIGURATION

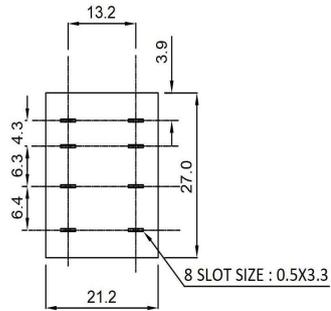


NC	-	2	-
NO	-	5	-
COM	7	-	-
COIL	10	11	



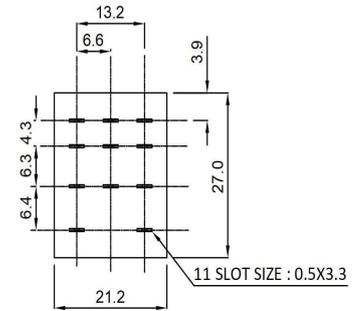
1C
PCB LAYOUT

NC	1	4
NO	5	8
COM	9	12
COIL	13	14



2C
PCB LAYOUT

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



3C
PCB LAYOUT

ALL DIMENSIONS ARE IN MM



LPR 40E SERIES RELAYS



TECHNICAL SPECIFICATIONS

TYPE		LPR 40E	
TERMINAL TYPE		SOLDER / LUGS	TERMINAL WITH LUGS
CONTACT CONFIGURATION		1C	2N/O , 2N/C 3N/O , 3N/C
RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC / 250 VAC		40A	
CONTACT MATERIAL		Silver alloy	
INITIAL CONTACT RESISTANCE (MAX)		0.050 Ω	
COIL NOMINAL VOLTAGES	DC	12-110 V	
	AC	240 V	
OPERATING POWER (MIN-MAX) FOR DC COIL		1.86 - 2.22 W	
OPERATING POWER (MIN-MAX) FOR AC COIL		4.9 VA	
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	2000 V _{RMS}	
	COIL TO CONTACT	2000 V _{RMS}	
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 +55°C	
ELECTRICAL LIFE (NO OF OPERATIONS)		50000	
MECHANICAL LIFE (NO OF OPERATIONS)		10 ⁶	
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.		49 x 56(+10) x 48	45 x 57(+10) x 47.5
MAX WEIGHT IN GRAMS (APPROX.)		90 gms	
MOUNTING		Molded base plate	Metalic base plate



(Photo For Representation Purpose Only)



SALIENT FEATURES

- Compact Size
- Elegant
- Reliable
- Heavy Duty

APPLICATIONS

- Furnace Controls
- Voltage Stabilizer
- Process Controls
- Inventors
- Heaters
- Vending Machines
- Domestic Appliance
- Temperature Controllers

NOTE :- 1) Recommended Socket :- PRS - 1 : Only for 2N/O , 2N/C , 3N/O , 3N/C

2) All Specification / Dimensions subject to Tolerance.

3) Molded base plate available only in 1C configuration

4) Metal base plate available in 2N/O , 2N/C , 3N/O , 3N/C configuration

5) Any Techno commercial changes is/are prerogative of Manufacturer / Management of the Company which can be done without any notice.



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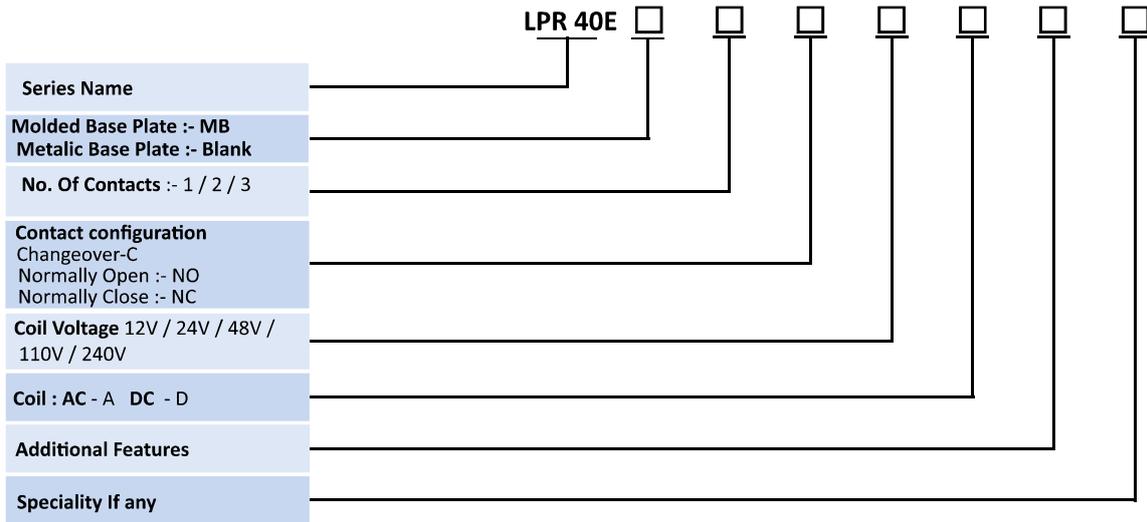


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COIL – DATA (ALL VALUES AT 27°C ± 2° AMBIENT, COLD START)

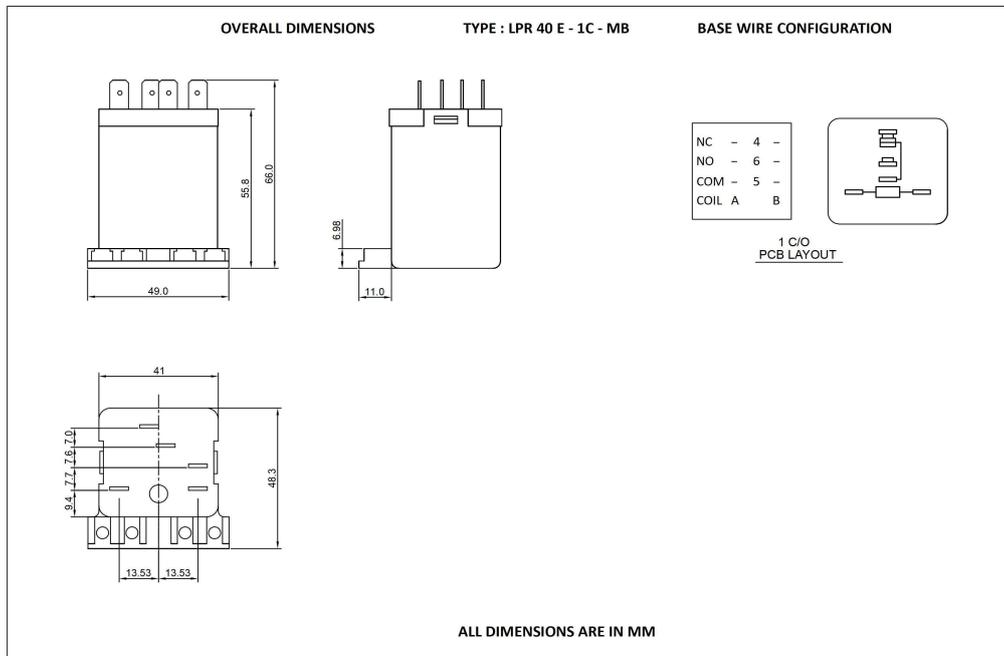
NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL (W)
	DC	AC			
12	74	-	4.5	0.6	1.94 W
24	260 / 300	-	6.8	0.9	2.21 W
48	1.2k	-	9.0	1.2	1.92 W
110	5.5k	-	13.5	1.8	2.2 W
240	-	4.7k	18.0	2.4	4.9 VA

ORDERING CODE FOR RELAY



DIMENSIONS

(WITH MOLDED BASE)



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



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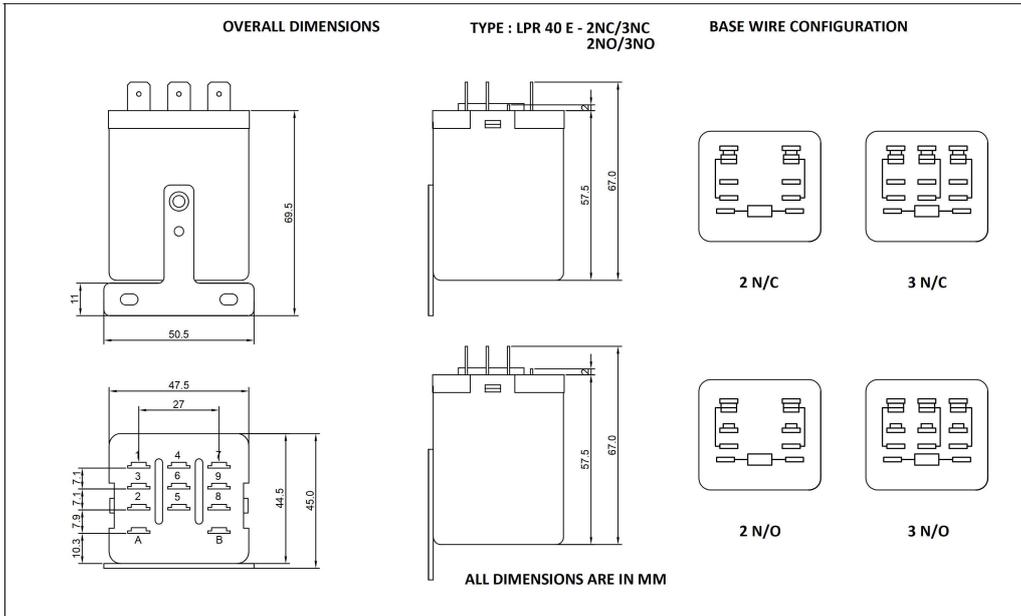
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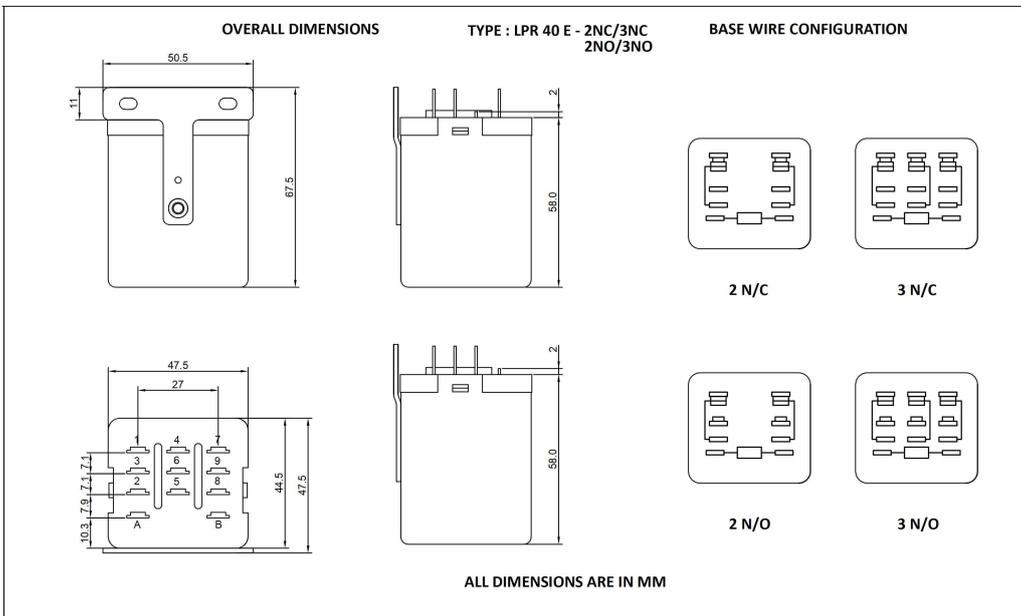
DIMENSIONS

(WITH REGULAR BASE PLATE)



DIMENSIONS

(WITH REVERSE BASE PLATE)



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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PMYS DR 8 SOCKET

Formerly known as SDR PMY 8 Din Rail Socket



TECHNICAL SPECIFICATIONS

TYPE	PMYS DR 8 PIN
TERMINAL TYPE	Din Rail Or Panel Mountable
CONTACT CONFIGURATION	8 Pin
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC	10 A
BODY MATERIAL	High Electric Grade Bakelite
CONTACT MATERIAL	Electrical Grade Phosphor Bronze Spring Action Tubular Contacts Electroplated
TERMINALS	Brass Electroplated
DI-ELECTRIC STRENGTH	2500 VAC
MAXIMUM TIGHTENING TORQUE	0.6 Nm
INSULATION RESISTANCE AT 500 VDC AT 27°C & + 65% RH	500MΩ
AMBIENT TEMPERATURE	-40 C To + 70°C
ALL DIMENSIONS ARE IN MM (W X L X H) APPROX.	25.4 X 66.7(+2.0)X 29.5
MAX WEIGHT IN GRAMS (APPROX.)	30 gms
MOUNTING	Din Rail & Screw
STANDARDS	(EN/DIN Sequential Numbering According to EN 60947 & IEC 61810)



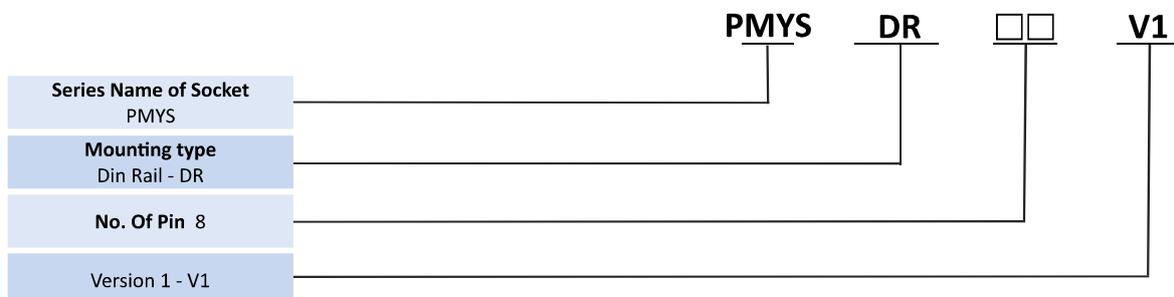
(Photo For Representation Purpose Only)



APPLICATIONS

- Ideal Substitute for Costly Relays & Contractors having Front Screw Terminals For Plug in Module & Instrument

ORDERING CODE FOR RELAY



NOTE:-

- 1) Recommended for PMY 2C series relays for Din Rail Mount.
- 2) All Specification / Dimensions subject to Tolerance.
- 3) Any Techno commercial changes is / are prerogative of manufacturer / management of the company which can be done without any notice.



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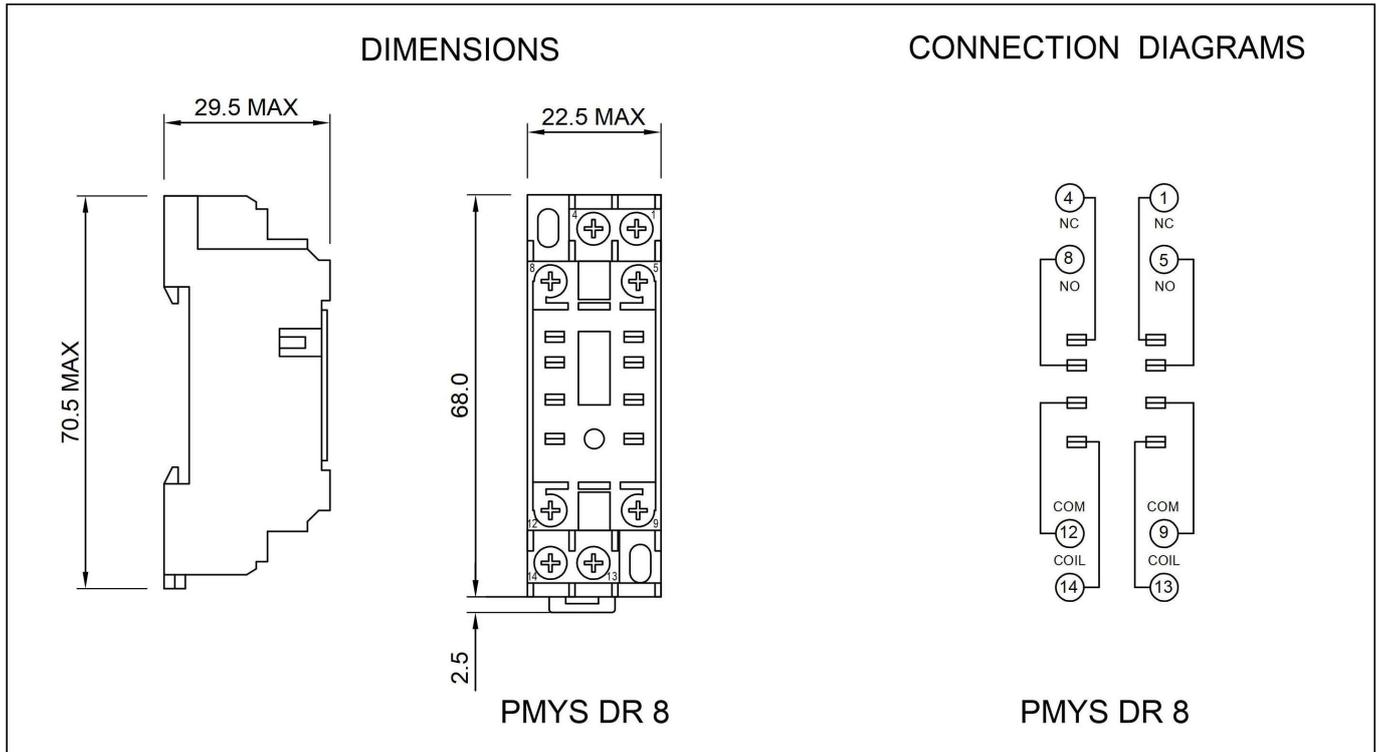


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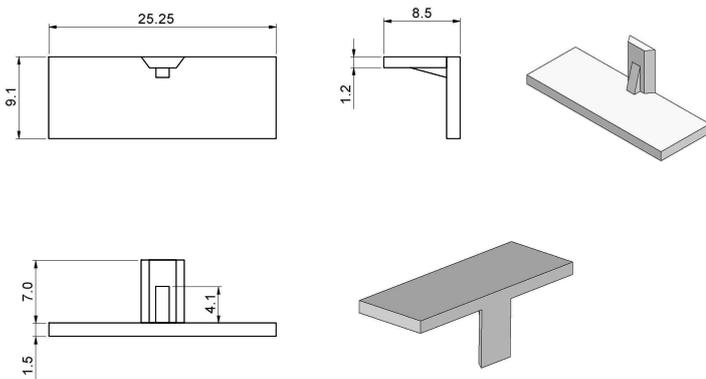
DIMENSIONS



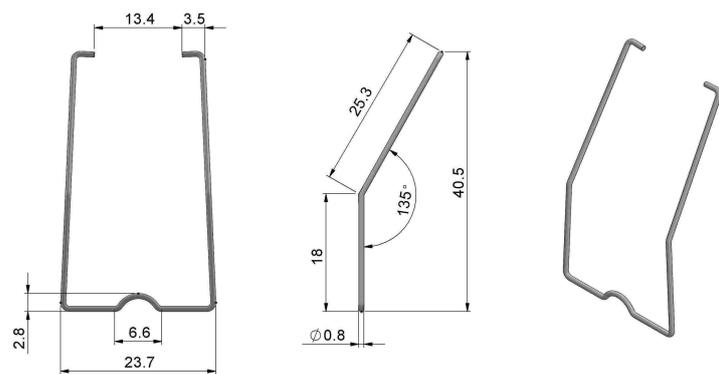
* Without Accessories

ACCESSORIES

LABELING TAG



RETAINER CLIP



* Accessories will be charged extra.

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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