

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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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

Arc Suppressor - H (Only Available in 6A/10A)	<input type="checkbox"/>	MPC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L	<input type="checkbox"/>	V1
Series Name										
No. Of Contacts 1 / 2 / 3										
Contact configuration Changeover - C										
Coil Voltage 12V / 18V / 24V / 30V / 48V / 110V / 220V / 240V / 415V										
Coil AC - A DC - D										
Rated Carrying Current 6A / 12A										
LED - L										
Additional Features Diode - D										
Version - 1										



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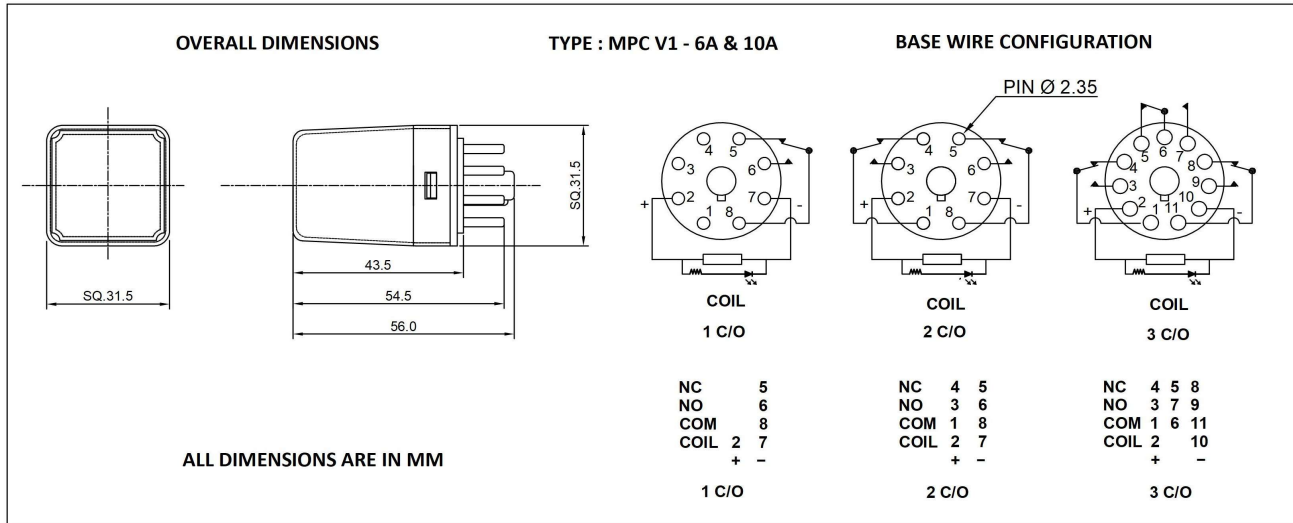


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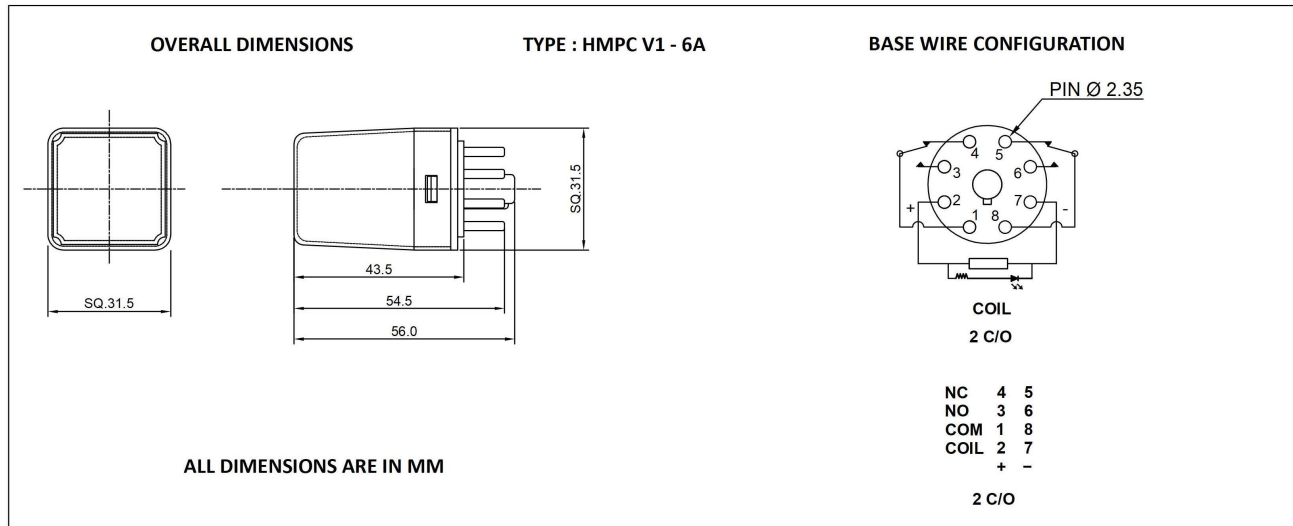


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OVERALL DIMENSIONS



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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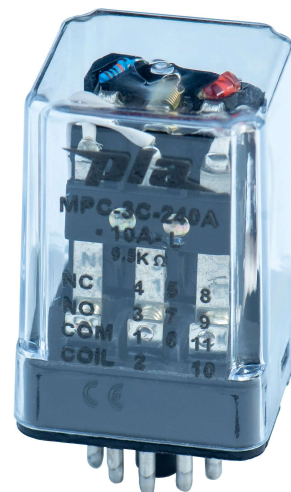
MPC SERIES

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 MPC5 8, For MPC 3C is MPC5 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



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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

ORDERING CODE FOR RELAY

Arc Suppressor - H	<input type="checkbox"/>	MPC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L	<input type="checkbox"/>	<input type="checkbox"/>
Series Name										
No. Of Contacts 1 / 2 / 3										
Contact configuration Changeover - C										
Coil Voltage 6V / 12V / 18V / 24V / 30V/ 48V / 110V / 220V / 240V / 250V / 415V										
Coil AC - A DC - D										
Rated Carrying Current 5A / 10A / 12A / 16A										
LED - L										
Additional Features Diode - D										
Special Features Relay Operating At 60Hz AC frequency - Z										



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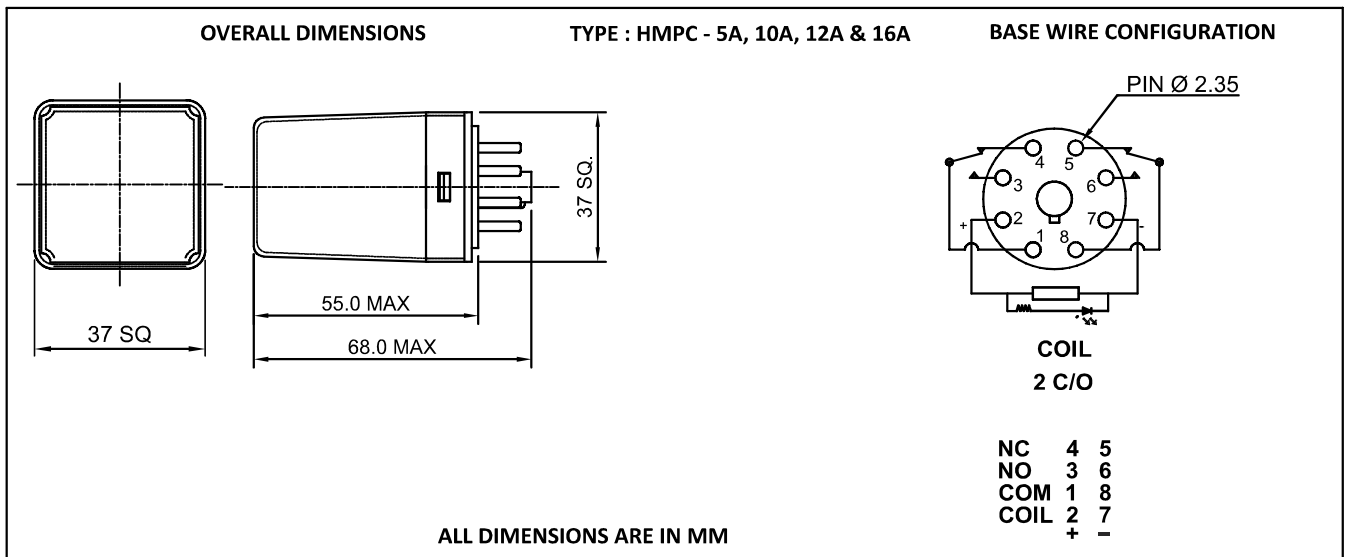
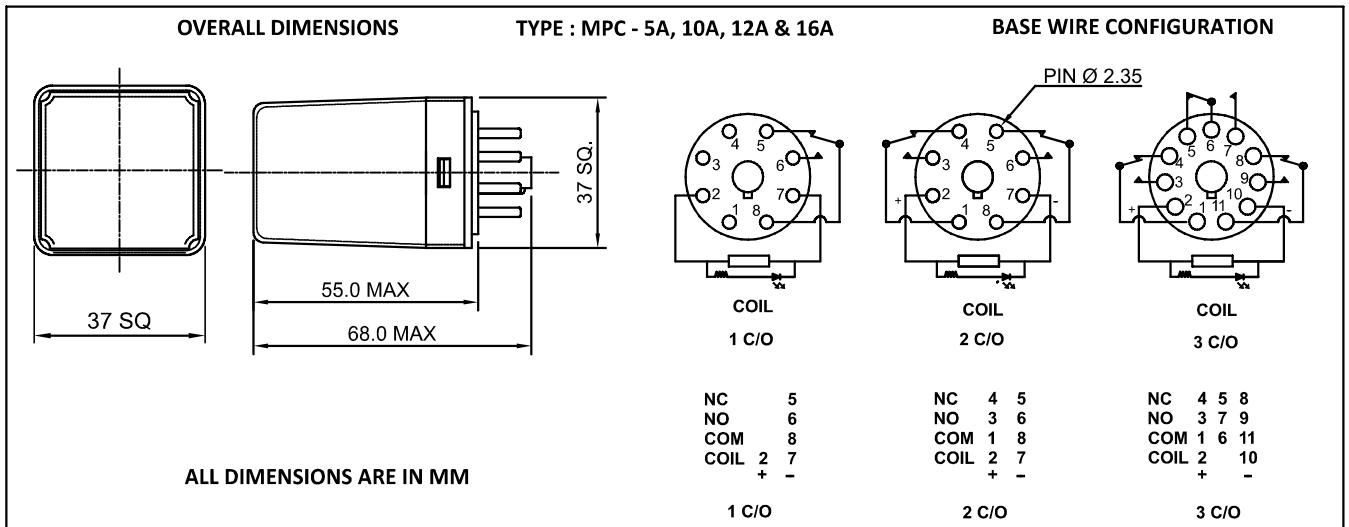


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OVERALL DIMENSIONS



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 $\pm 0.2\text{mm}$



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LPR 30E SERIES RELAYS



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 M Ω
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.

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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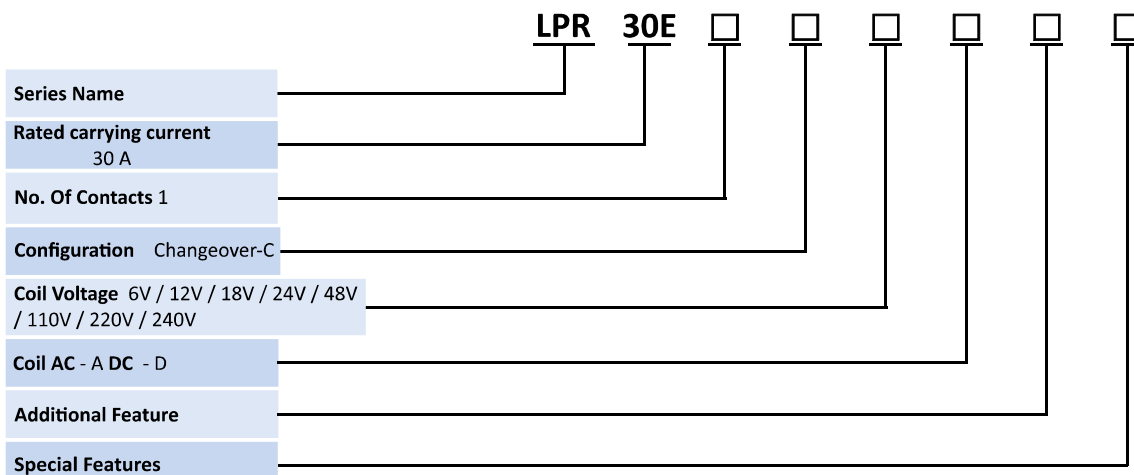


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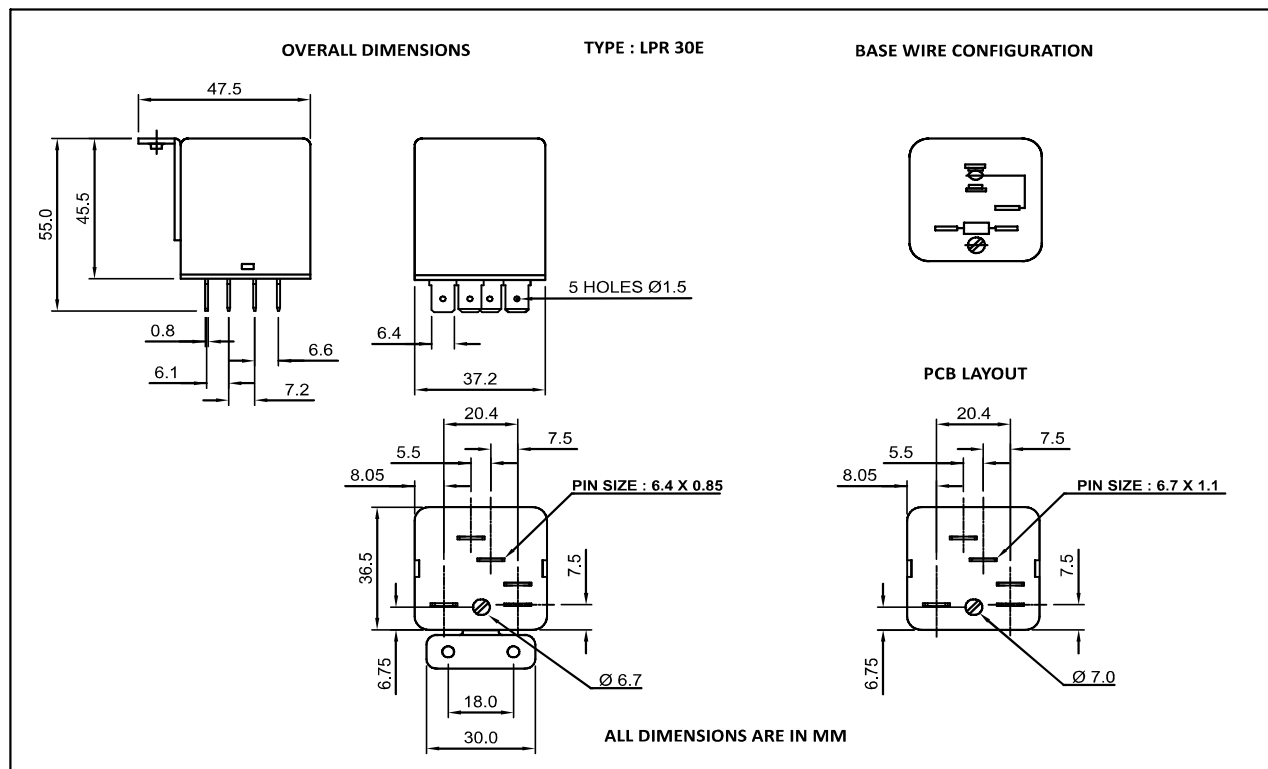
COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC 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

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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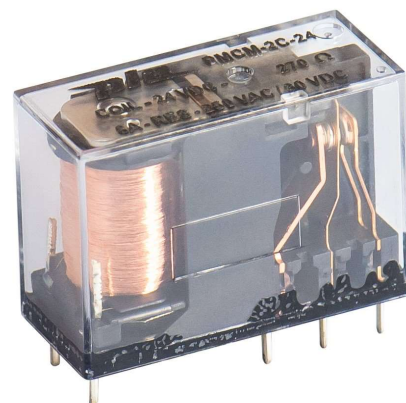
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TECHNICAL SPECIFICATIONS

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 M Ω	
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	



(Photo For Representation Purpose Only)

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.



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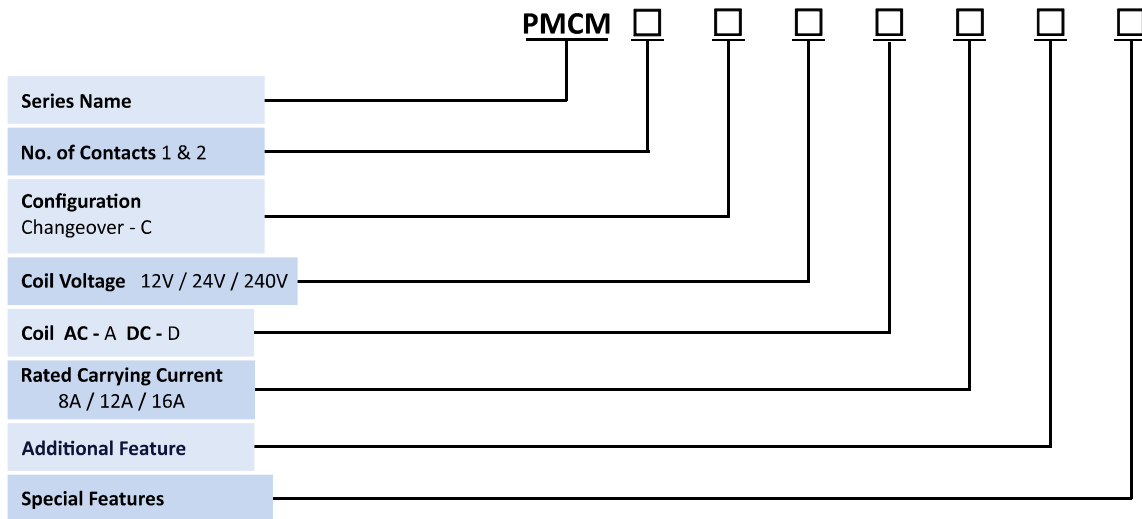


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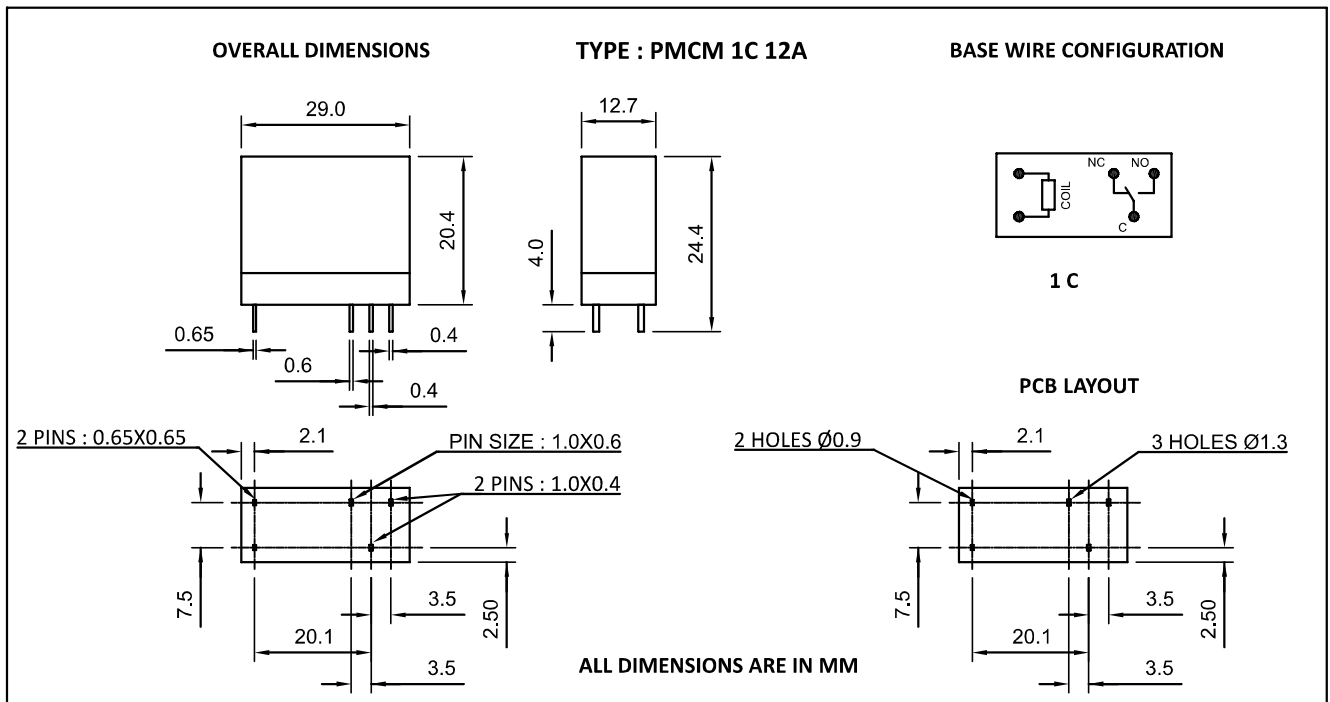
COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC	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

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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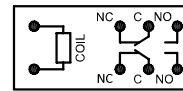
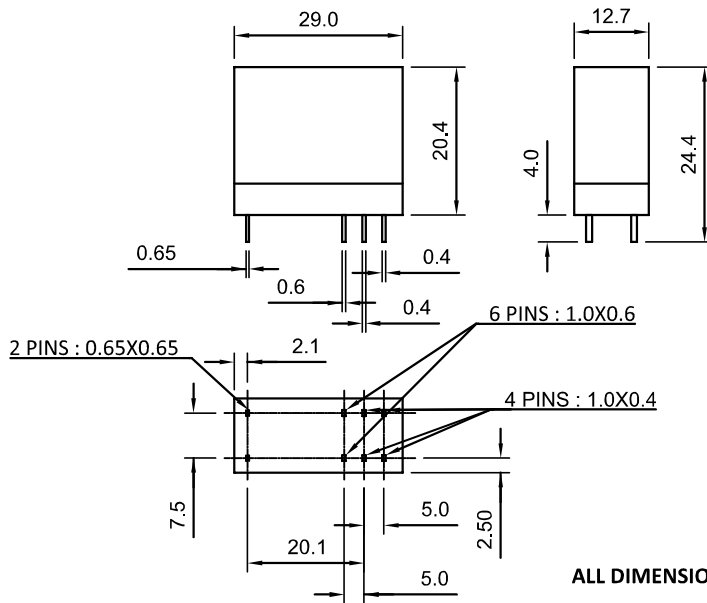


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OVERALL DIMENSIONS

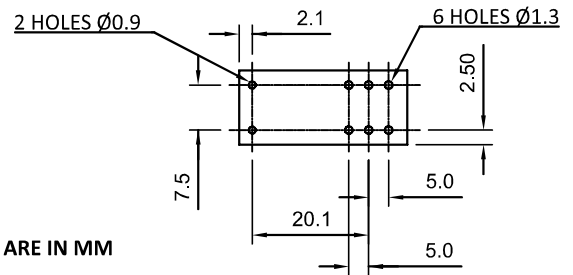
TYPE : PMCM 2C 8A & PMCM 1C 16A

BASE WIRE CONFIGURATION



2 C

PCB LAYOUT



ALL DIMENSIONS ARE IN MM



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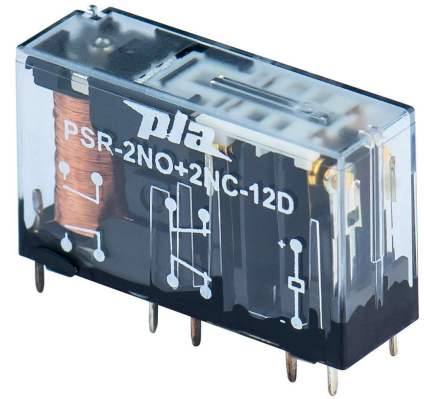
PSR SERIES

(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 V _{RMS}
	COIL TO CONTACT	4000 V _{RMS}
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 | • Din Rail Safety Modules |
| • Two hand operating devices | • Safety door controls |
| • Pressure mat controls | • Speed Controls |
| • Elevators / Escalators | |

NOTE :- 1)Recommended socket :- PSRS

2) All Specification / Dimensions subject to Tolerance

3) Gold plated contacts available with extra charges

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



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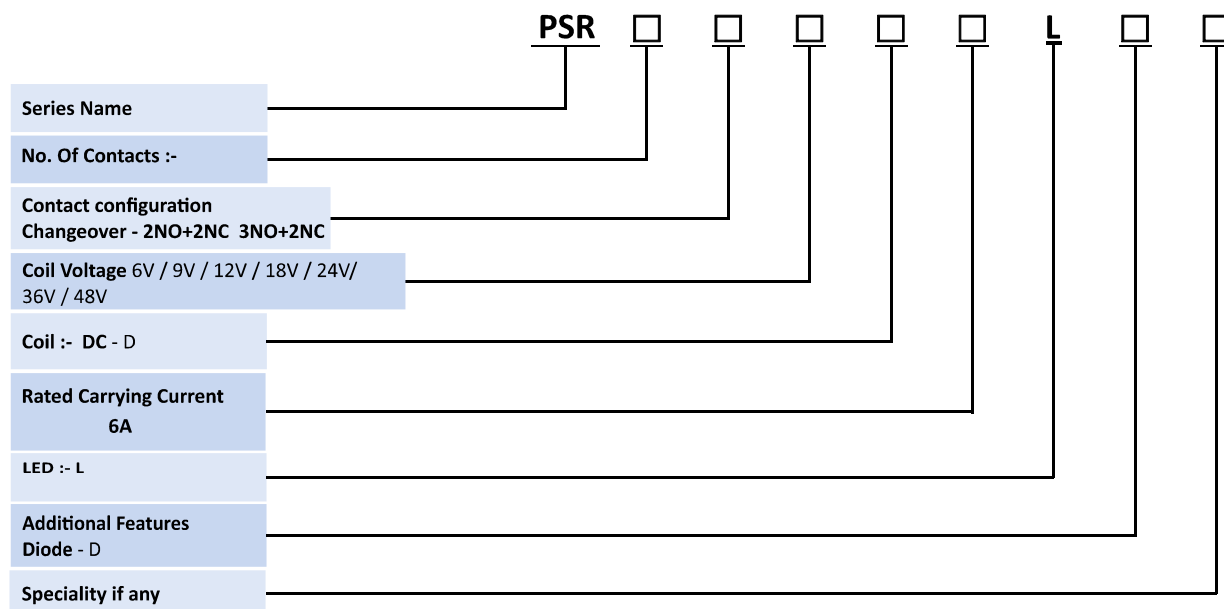
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COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

NOMINAL VOLTAGE (V)	RESISTANCE 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

ORDERING CODE FOR RELAY



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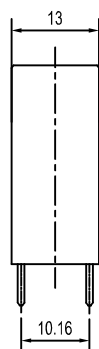
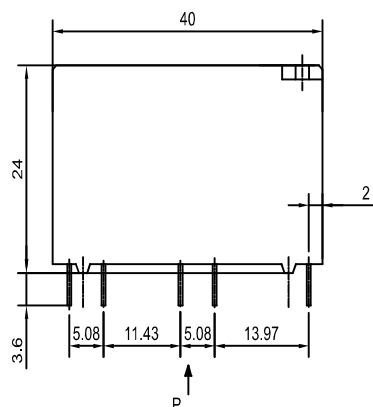
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OVERALL DIMENSIONS

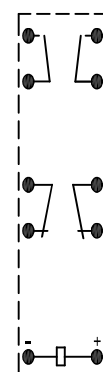
OVERALL DIMENSIONS

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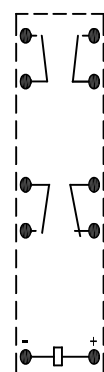
BASE WIRE CONFIGURATION



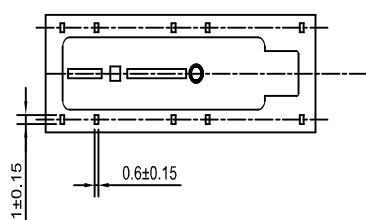
2NO + 2 NC



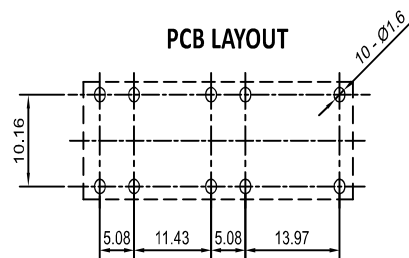
3NO + 1 NC



P Direction



PCB LAYOUT



ALL DIMENSIONS ARE IN MM

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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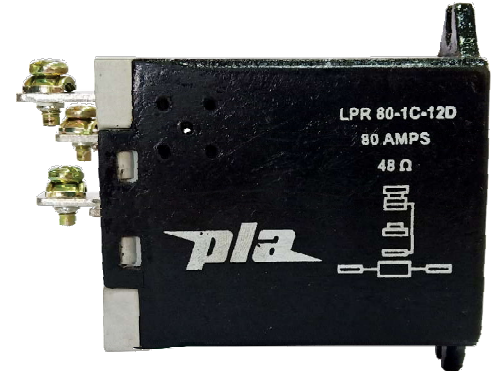
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LPR 80 SERIES RELAYS



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 M Ω
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



(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

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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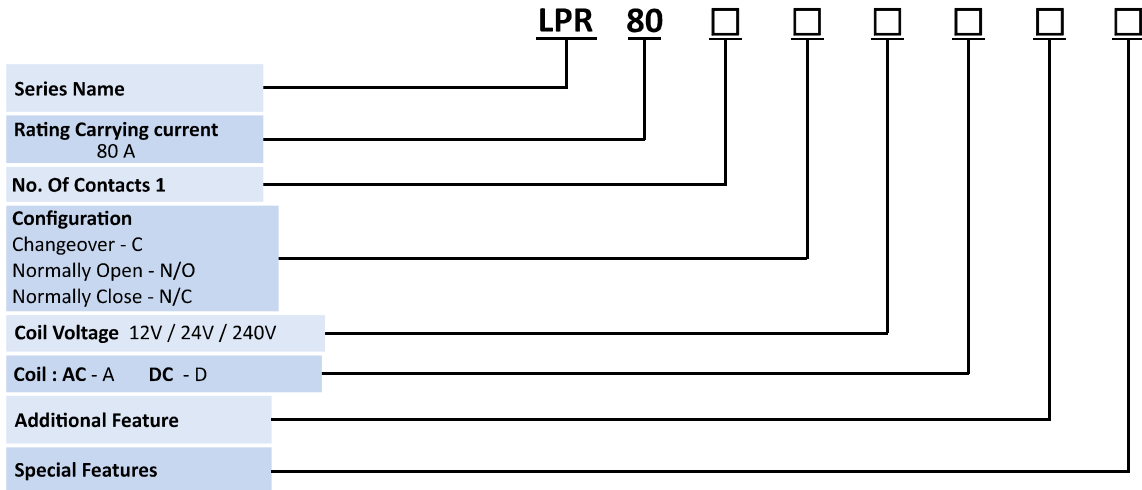


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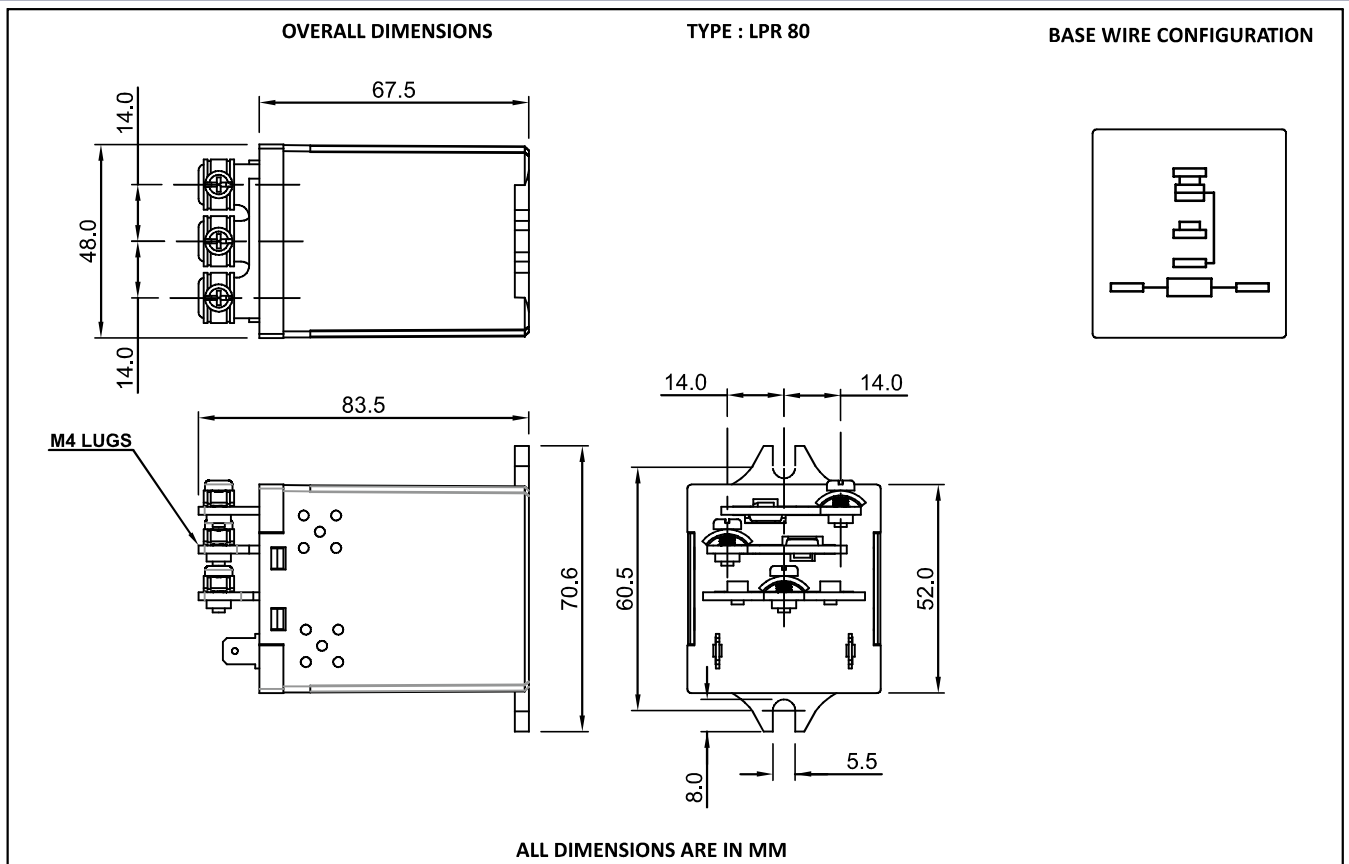
COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

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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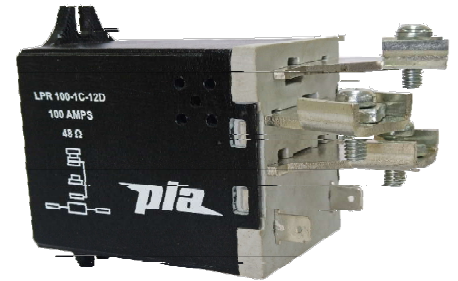
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LPR 100 SERIES RELAYS



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 M Ω
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

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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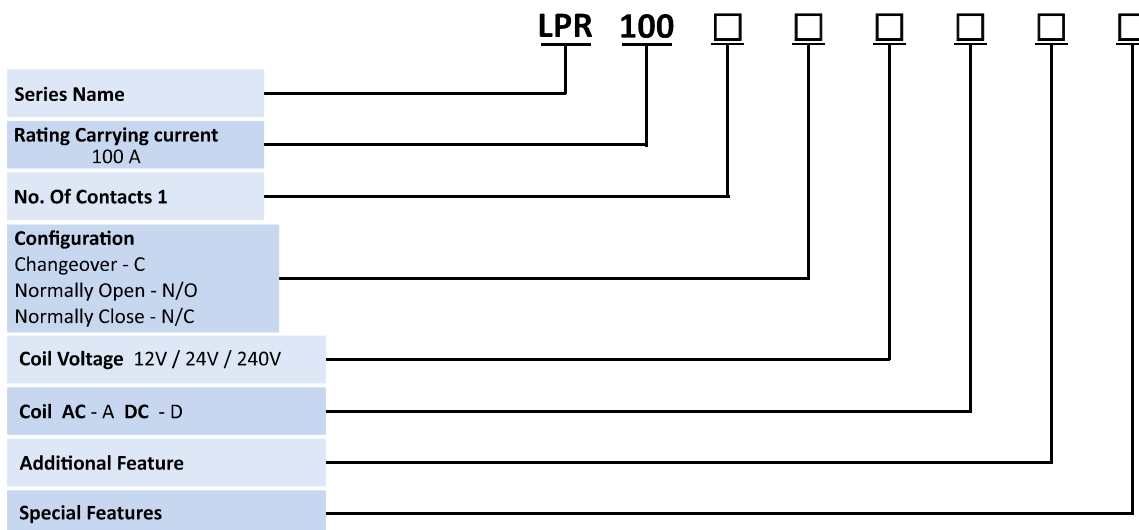
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1

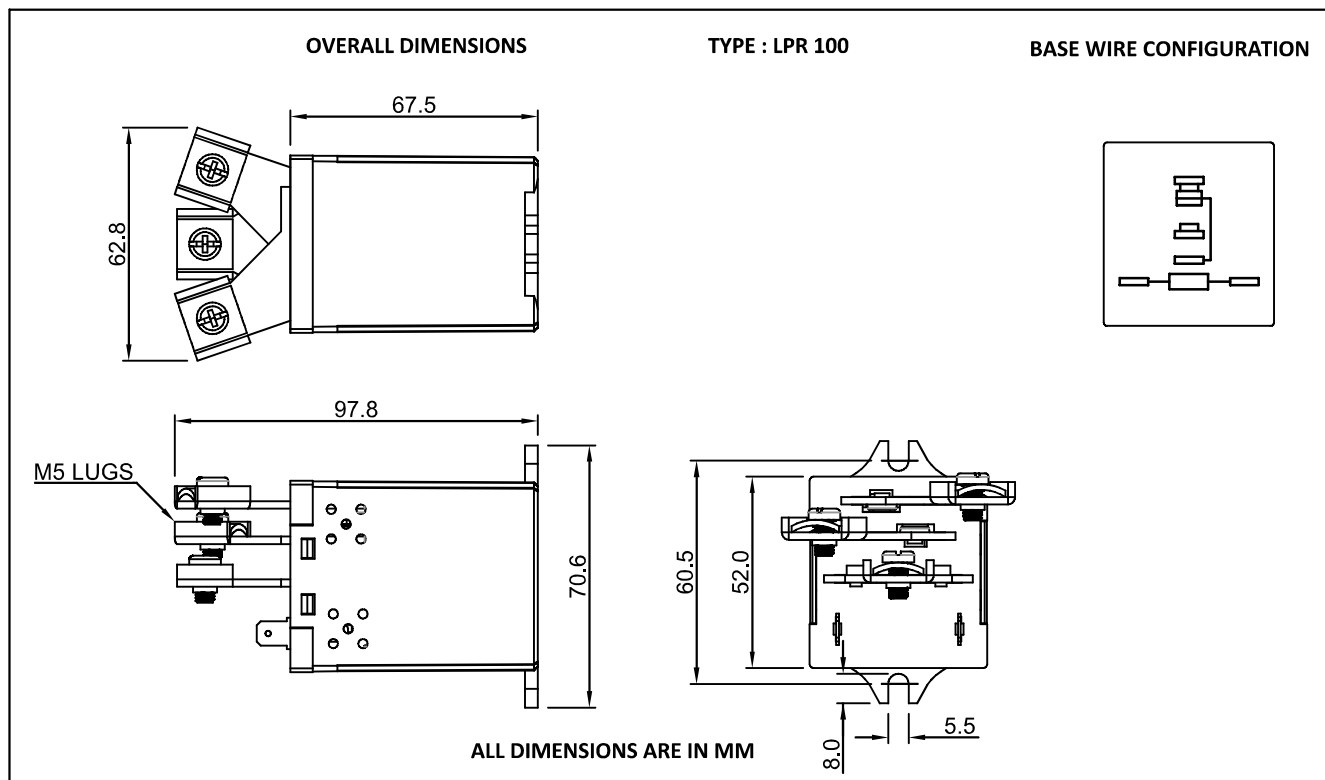
COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

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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MCC-V1 SERIES RELAYS



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 M Ω		
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.



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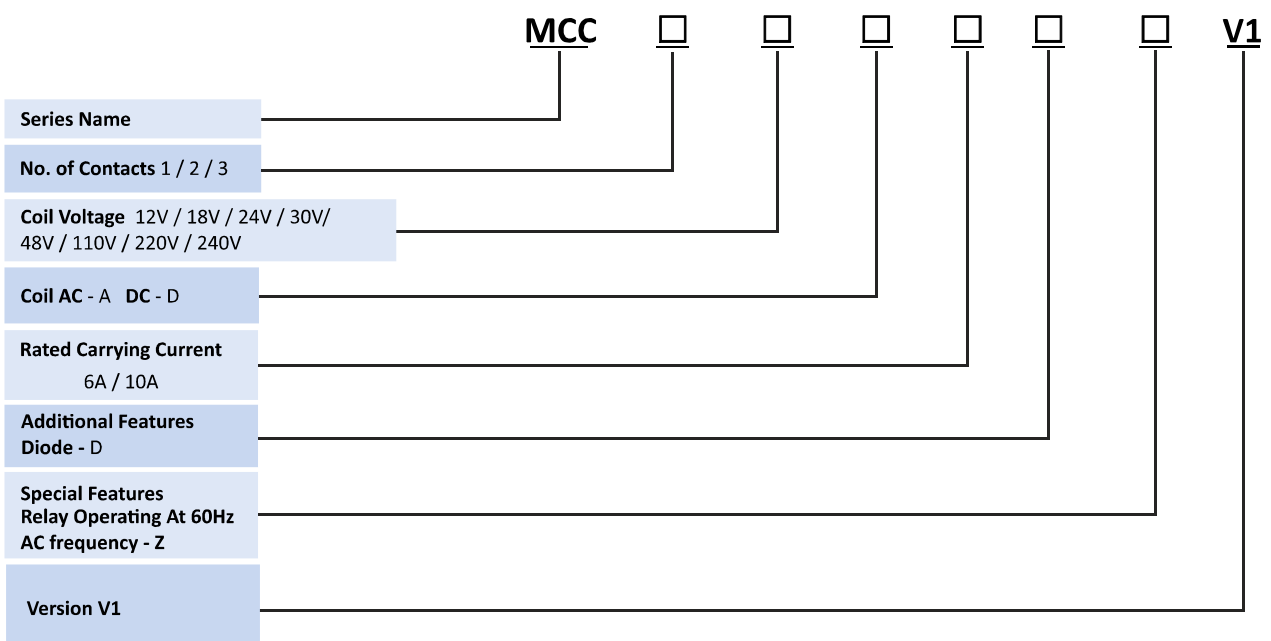
APPLICATIONS

- 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



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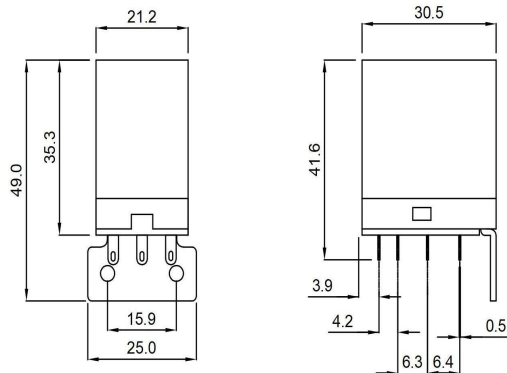
2

DIMENSIONS

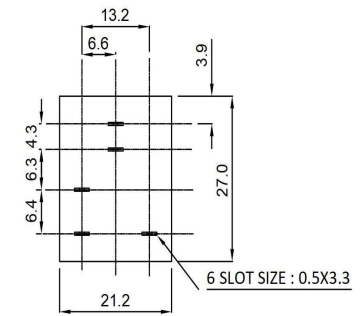
OVERALL DIMENSIONS

TYPE : MCC V1

BASE WIRE CONFIGURATION

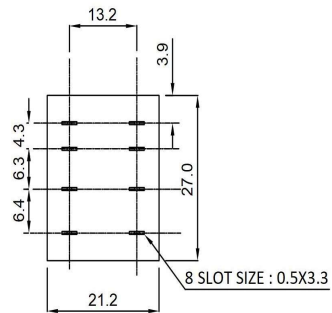


NC	-	2	-
NO	-	5	-
COM	7	-	-
COIL	10	11	



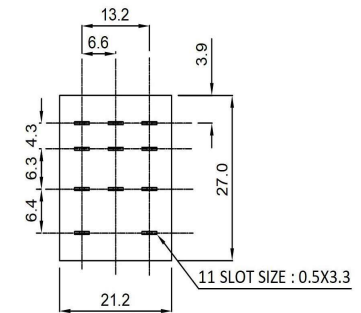
1C
PCB LAYOUT

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



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

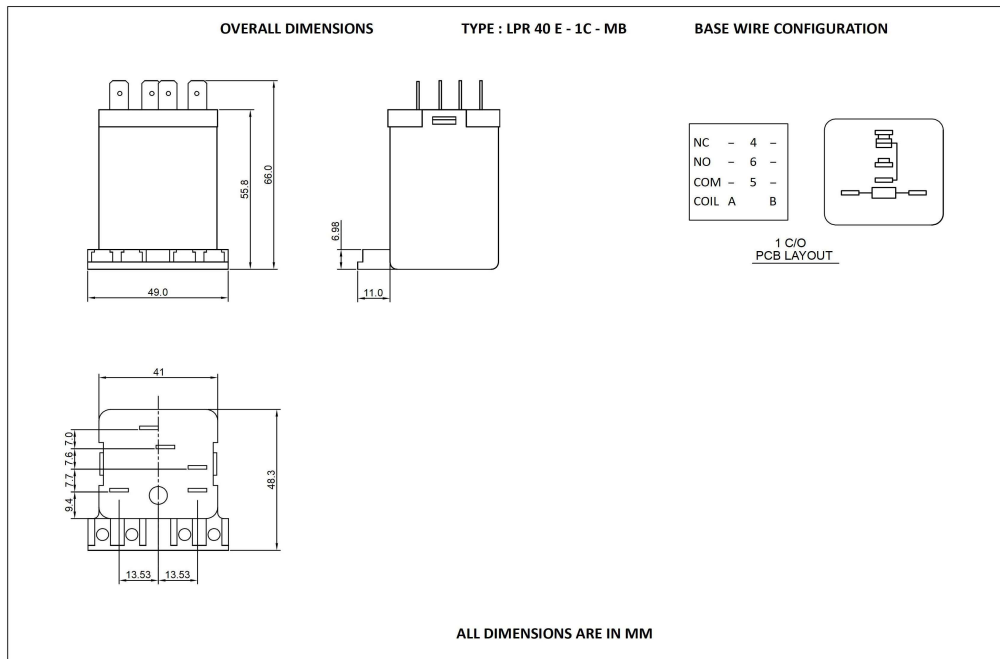
NOMINAL VOLTAGE (V)	RESISTANCE ± 10% (Ω)		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL (W)
	DC	AC			
12	74	-	4.5	0.6	1.94 W
24	260 / 300	-	6.8	0.9	2.21 W
48	1.2k	-	9.0	1.2	1.92 W
110	5.5k	-	13.5	1.8	2.2 W
240	-	4.7k	18.0	2.4	4.9 VA

ORDERING CODE FOR RELAY

Series Name	LPR 40E
Molded Base Plate :- MB Metalic Base Plate :- Blank	
No. Of Contacts :- 1 / 2 / 3	
Contact configuration Changeover-C Normally Open :- NO Normally Close :- NC	
Coil Voltage 12V / 24V / 48V / 110V / 240V	
Coil : AC - A DC - D	
Additional Features	
Speciality If any	

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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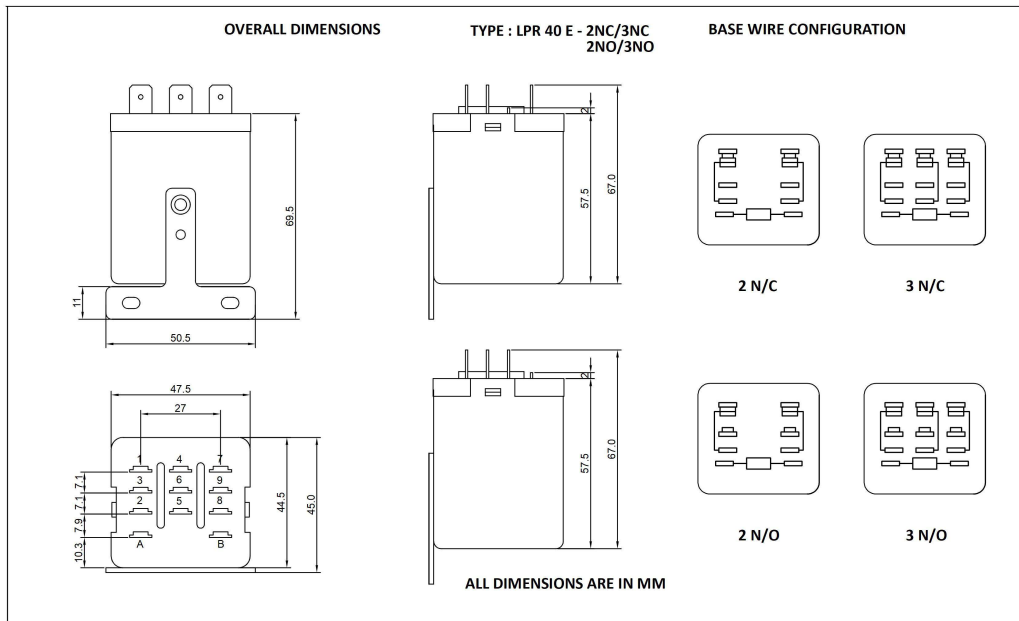
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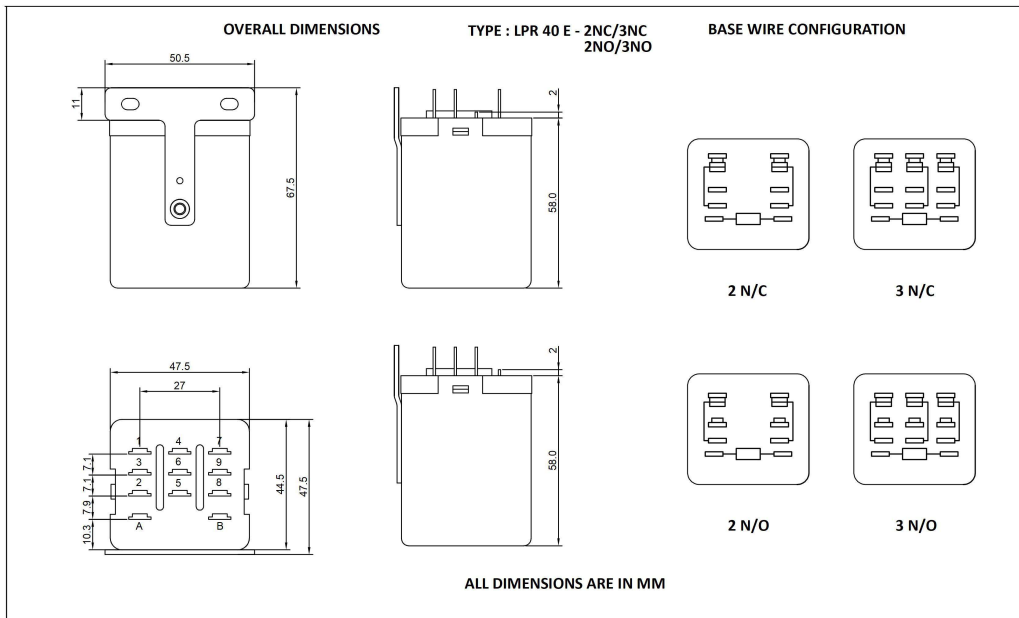
DIMENSIONS

(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

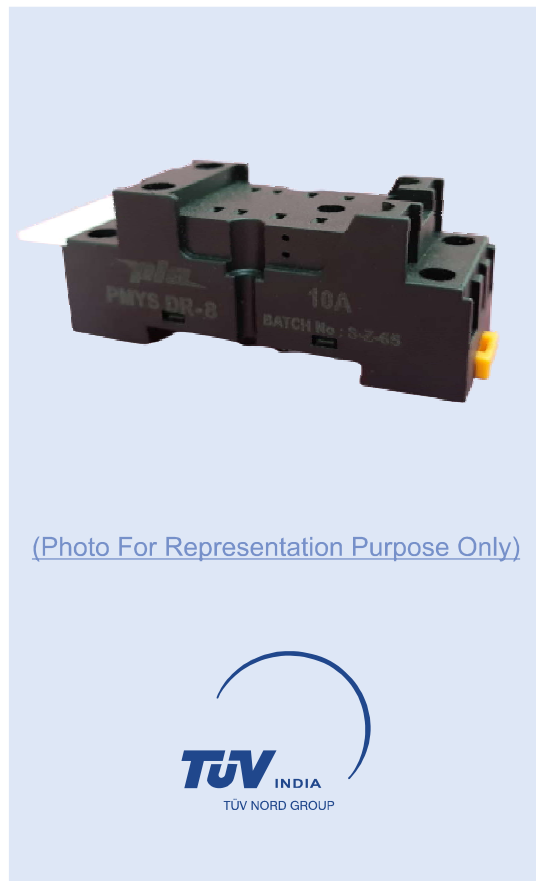
Formerly known as SDR PMY 8 Din Rail Socket

NEW



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)



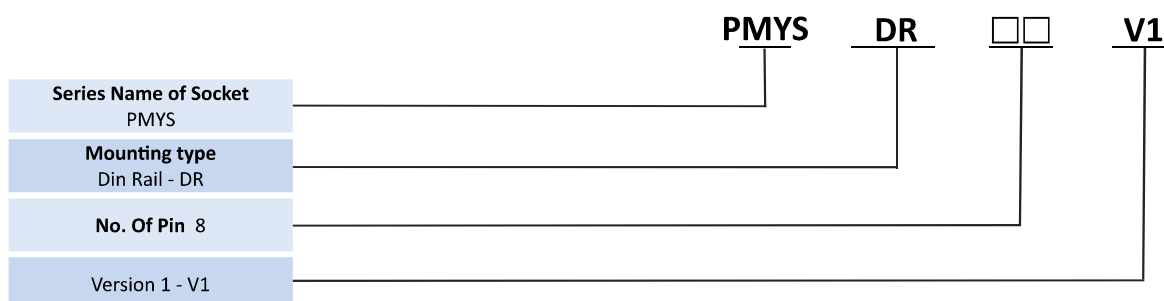
(Photo For Representation Purpose Only)



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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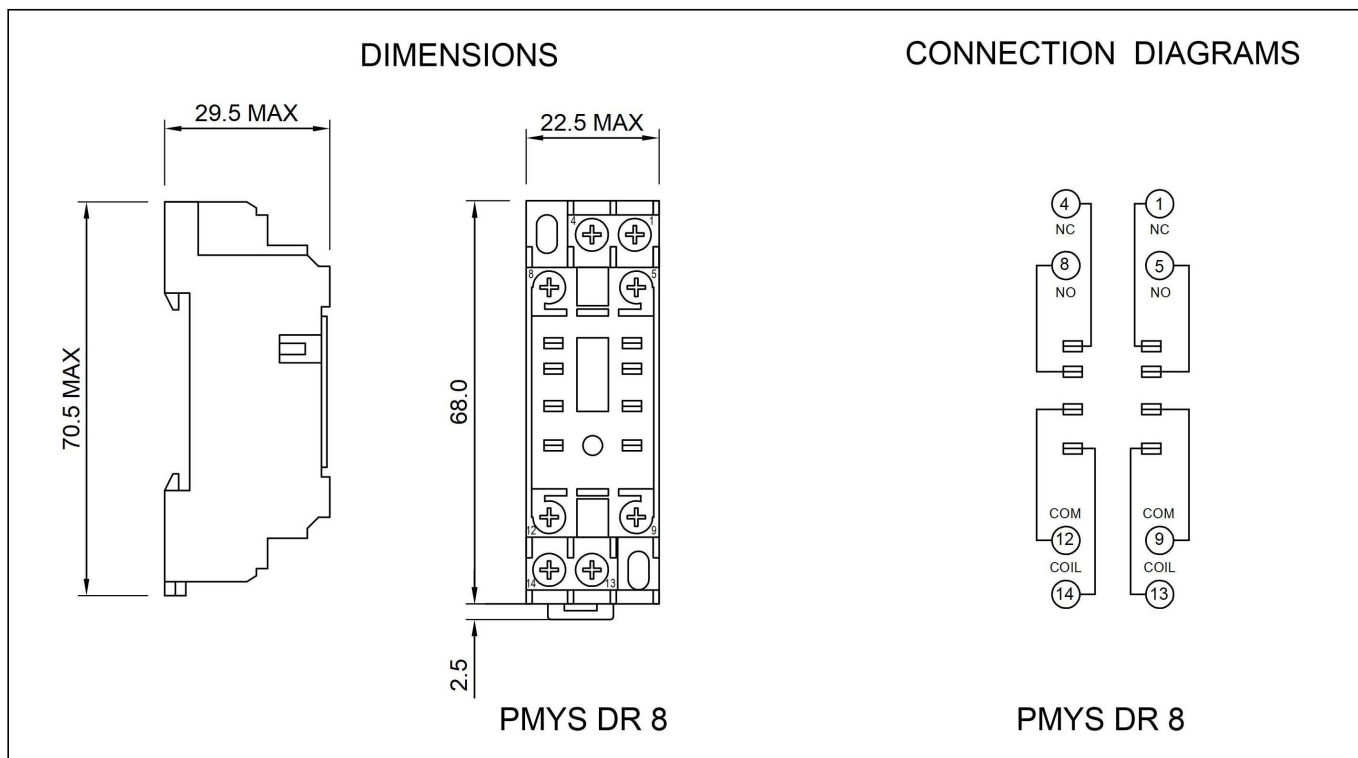


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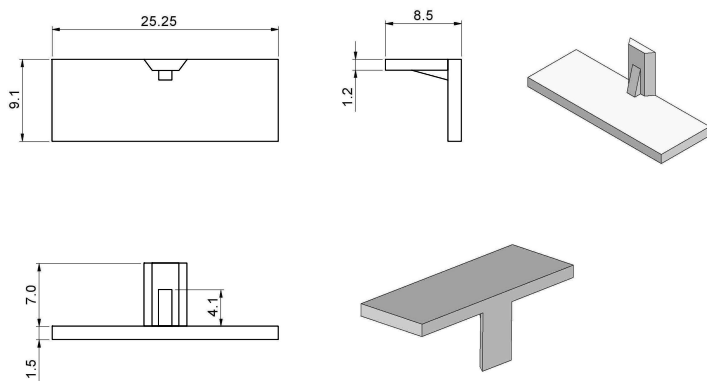
DIMENSIONS



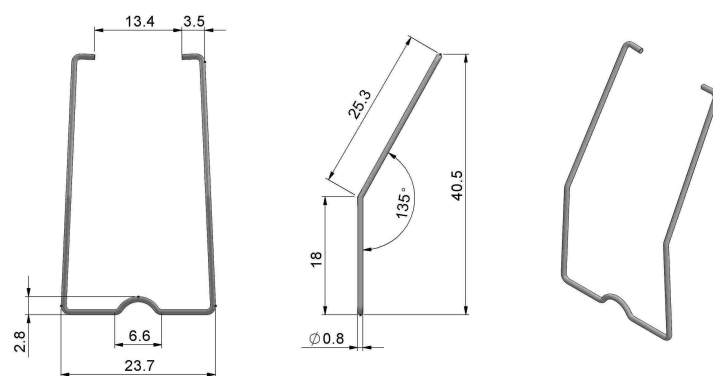
* Without Accessories

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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