


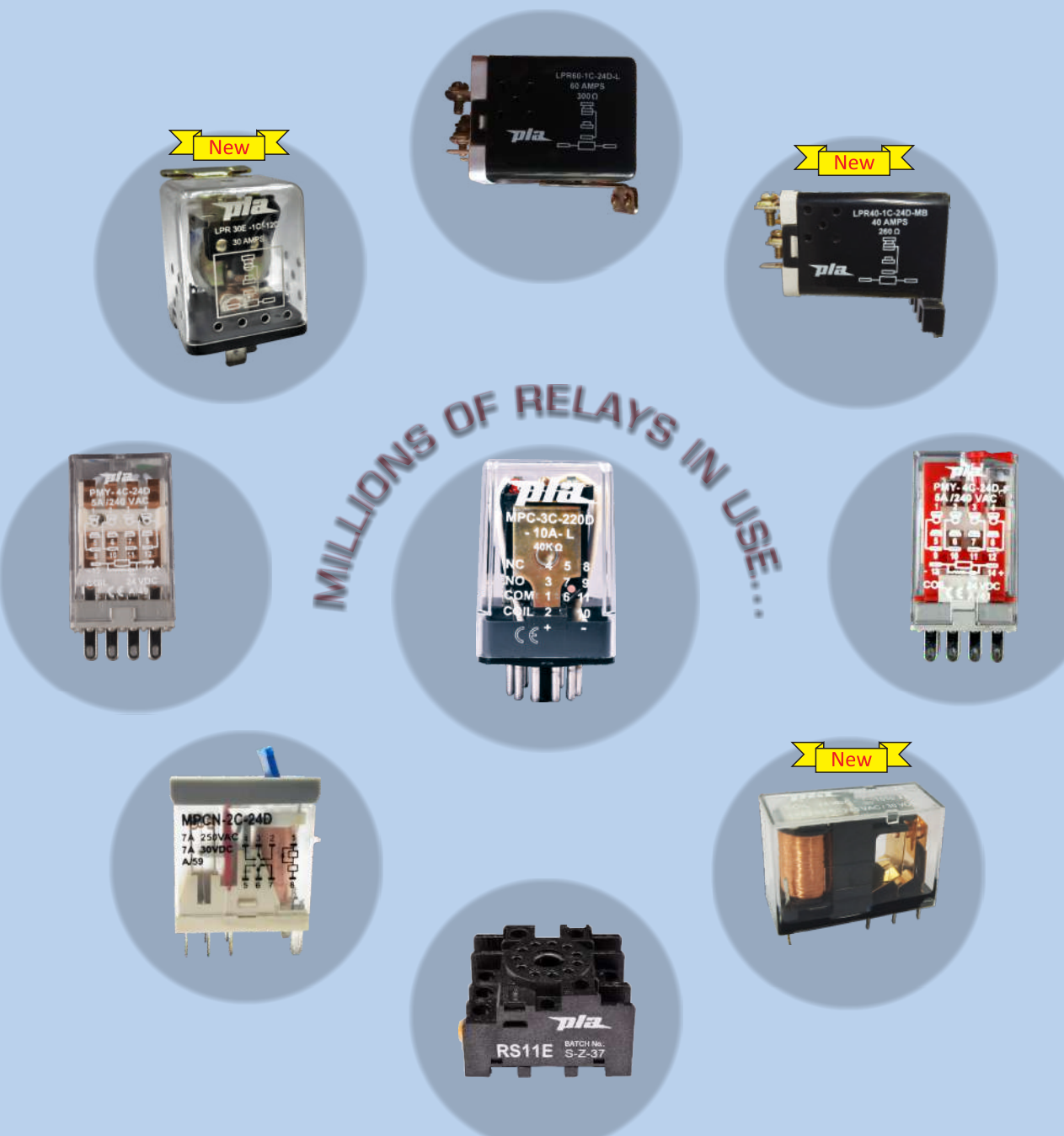


AUTOMOTIVE RELAYS		SLIM RELAY	REED RELAYS					
PAC 40 / 80		SMP	DIP - NO		DIP - CO		SIP	RA-2 / MA-2
								
Solder / Lugs		Plug In	PCB		PCB		PCB	-
1NO		1C	1NO	2NO	1C	2C	1NO	1NO
40A at 14 VDC	80A at 14 VDC	6A at 30 VDC	0.5A at 200 VDC 10W Each Max		0.25A at 28 VDC 3W Each Max		0.5A at 200 VDC 10W Each Max	0.5A at 200 VDC 10W Each Max
12-24 VDC		12-24 VDC	5-48 VDC		5-48 VDC		5-12 VDC	-
-		-	-		-		-	-
1.6 W		0.17 W	0.13-0.52 W		0.13-0.52 W		0.05-0.08 W	-
500 VAC		1000 VAC	250 VDC		200 VDC		250 VDC	250 VDC
750 VAC		4000 VAC	500 VDC		500 VDC		500 VDC	-
100 MΩ		1000 MΩ	1000 MΩ		1000 MΩ		1000 MΩ	-
10 <sup>5</sup>		3×10 <sup>4</sup>	10 <sup>7</sup>		10 <sup>7</sup>		10 <sup>7</sup>	10 <sup>7</sup>
10 <sup>6</sup>		1×10 <sup>4</sup>	-		-		-	-
26.3×26.3 ×39.7 (+11.5)	32×29× 42.7(+15)	28.8×5×15(+3.5)	10.5×20 ×7.5	10.5×20.2 ×11.5	10.5×22.2 ×7.5	10.5×22.2 ×11.5	Potted Version (P):- 10×22.4×10.5 Molded Version (M):- 8.6×24.3×9.5	23×13.9×6
31gms	48gms	5.4gms	5gms		5gms		5gms	RA-2:- 4.2gms MA-2:- 3.2gms
-		-	-		-		-	-
-		-	-		-		-	-
RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%	RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%	RESISTANCE IN 'Ω' ± 10%
DC	DC	DC	1NO DC	2NO DC	1C DC	2C DC	DC	-
-	-	-	200 (5V)*	100 (5V)*	200 (5V)*	100 (5V)*	500 (5V)*	-
90	80	848	500	275	500	275	2k	-
-	-	-	-	-	-	-	-	-
360	320	3.39k	2.1k	1.1k	2.1k	1.1k	-	-
-	-	-	5k	5k	5k	5k	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
			* Coil Resistance for DIP 1NO 5VDC = 200 Ω DIP 2NO 5VDC = 100 Ω (± 10%)		* Coil Resistance for DIP 1CO 5VDC = 200 Ω DIP 2CO 5VDC = 100 Ω (± 10%)		* Coil Resistance for SIP 1NO 5VDC = 500 Ω (± 10%)	

NOTE:- 1) All Specifications / Dimensions subject to Tolerance.  
2) Any Techno commercial changes is / are subject to change without any notice.



MILLIONS OF RELAYS IN USE...



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CLASSIFICATION	SOCKETS											
TYPE	RS 8E RS 11E (MPC / HPC / HMPC / LMPC)		SDR-PMY-8 SDR-PMY-14 (PMY / PMY-F)		SPCB-PMY-8 SPCB-PMY-14 (PMY / PMY-F)		PRS-S-1 (HPCC / LPR40 2C, 3C)	MPCNS-8 (MPCN)	SDR-PLY-8 SDR-PLY-14 (PLY)		PMCM - 5 PMCM - 8 (PMCM)	
PRODUCT PHOTO												
TERMINAL TYPE	Screw Terminal		Screw Terminal		PCB		Screw Terminal	Screw Terminal	Screw Terminal		Screw Terminal	
NO. OF CONTACT PINS	8 Pin	11 Pin	8 Pin	14 Pin	8 Pin	14 Pin	11 Pin	8 Pin	8 Pin	14 Pin	5 Pin	8 Pin
RATED CARRYING CURRENT (RESISTIVE)	16A	12A	10A		10A		40A	10A	10A		12A	16A
TERMINALS	Brass Electroplated		Brass Electroplated		Brass Electroplated		Brass Electroplated	Brass Electroplated	Brass Electroplated		Brass Electroplated	
DIELECTRIC STRENGTH	2 kV		2 kV		2.5 kV		2 kV	2.5 kV	2.5 kV		2 kV	
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH	500 MΩ		500 MΩ		500 MΩ		100 MΩ	1000 MΩ	100 MΩ		500 MΩ	
AMBIENT TEMPERATURE	-25°C To +55°C		-25°C To +85°C		-25°C To +85°C		-25°C To +85°C	-25°C To +85°C	-25°C To +85°C		-25°C To +85°C	
ALL DIMENSIONS ARE IN mm (W×L×H)	40.2× 51.5(+4) ×21	43× 51.5(+4) ×31	22.5× 68(+2.8) ×29.7	29.5× 68(+2.8) ×29.7	21.6×28.5 ×11(+4.5)		54.5×83.5(+3) ×29.5	15.8×81.5×61.5	23.3×80 ×32.5	46×78 ×30	15.7×76 ×42.7	15.7×76 (+11)×74
MAX WEIGHT IN GRAMS	38gms	54gms	30gms	45gms	7gms	8gms	85gms	41gms	45gms	63gms	39gms	46gms
MOUNTING	Din Rail & Screw		Din Rail & Screw		PCB		Din Rail & Screw	Din Rail	Din Rail & Screw		Din Rail	
TYPE	SMP SOCKET (SMP)											
PRODUCT PHOTO												
RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC / 250 VAC	6A											
INSULATION	Between Coil & Contacts ≥6kv (1.2 / 50 μs)											
AMBIENT TEMPERATURE	-40°C To +70°C											
SCREW TORQUE	50gms											
WIRE STRIP LENGTH	10 mm											
ALL DIMENSIONS ARE IN mm (W×L×H)	6×88.3×73.5											
MAX WEIGHT	25gms											

NOTE:- 1) All Specifications / Dimensions subject to Tolerance.  
2) Any Techno commercial changes is / are subject to change without any notice.  
3) PMCM socket and SMP socket is with LED indicator

CLASSIFICATION				PLUG IN RELAYS																			
TYPE		MPC				HMPc				PMY-2/4				PMY-F-2/4				MPCN					
PRODUCT PHOTO																							
TERMINAL TYPE		Plug In				Plug In				Solder / Plug In				Solder / Plug In				Plug In					
CONTACT CONFIGURATION		1C / 2C / 3C*		2C		2C				2C		4C		2C		4C		1C		2C			
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		5A		10A		12A		16A		5A at 220 VDC		10A at 220 VDC		5A		10A		5A		12A at 30 VDC		7A at 30 VDC	
COIL NOMINAL VOLTAGE	DC	6-250 VDC		6-220 VDC		6-250 VDC				6-220 VDC				12-220 VDC				12-24 VDC					
	AC	6-240 VAC				6-240 VAC				6-240 VAC				12-240 VAC				240 VAC					
OPERATING POWER (MIN-MAX) FOR DC COIL		0.72 - 1.25 W		1.20 - 1.25 W		0.72 - 1.25 W				0.89 - 1.15 W				0.89 - 1.15 W				0.52 W					
DIELECTRIC STRENGTH BETWEEN	OPEN CONTACT	1500 VAC		2000 VAC		1500 VAC				750 VAC				750 VAC				1000 VAC					
	COIL TO CONTACT	2000 VAC		2000 VAC		2000 VAC				2000 VAC				2000 VAC				5000 VAC					
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		500 MΩ		500 MΩ		500 MΩ				100 MΩ				100 MΩ				2000 MΩ					
ELECTRICAL LIFE (NO OF OPERATIONS)		10 <sup>5</sup>				10 <sup>5</sup>				10 <sup>5</sup>				10 <sup>5</sup>				10 <sup>5</sup>					
MECHANICAL LIFE (NO OF OPERATIONS)		10 <sup>7</sup>				10 <sup>7</sup>				10 <sup>6</sup>				10 <sup>6</sup>				10 <sup>7</sup>					
ALL DIMENSIONS ARE IN mm (W×L×H)		37×37×68				37×37×68				21.5×28×35.5(+7)				21.5×28×35.5(+7)				12.7×31×32.5(+6.5)					
MAX WEIGHT IN GRAMS		75gms				70gms				37gms				37gms				20gms					
INBUILT FEATURE		LED				LED				LED				LED				LED					
OPTIONAL FEATURES		Diode				Diode				Diode				Diode				-					
COIL DATA	COIL VOLTAGE	RESISTANCE IN 'Ω' ± 10%				RESISTANCE IN 'Ω' ± 10%				RESISTANCE IN 'Ω' ± 10%				RESISTANCE IN 'Ω' ± 10%				RESISTANCE IN 'Ω' ± 10%					
		DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC						
	6	30	7	30	4	30	7	-	-	-	-	-	-	-	-	-	-						
	12	200	30	120	16	200	30	160	-	160	-	275	-	-	-	-	-						
	18	390	-	270	-	390	-	350	-	350	-	-	-	-	-	-	-						
	24	500	110	480	70	500	110	650	180	650	180	1.1k	-	-	-	-	-						
	48	2.25k	440	1.9k	-	2.25k	440	2.6k	735	2.6k	735	-	-	-	-	-	-						
	110	10k	2.4k	10k	2k	10k	2.4k	11k	4.4k	11k	4.4k	-	-	-	-	-	-						
	220	40k	-	40k	-	40k	-	42k	-	42k	-	-	-	-	-	-	-						
	240	-	9.5k	-	9.5k	-	9.5k	-	19k	-	19k	-	24k	-	-	-	-						
	250	50k	-	-	-	50k	-	-	-	-	-	-	-	-	-	-	-						
	* Coil Resistance for MPC 3C 12 VDC = 150 Ω (± 10%)				*MPC 16A & 12A formerly known as HPC																		

**NOTE:-** 1) All Specifications / Dimensions subject to Tolerance.  
2) Any Techno commercial changes is / are subject to change without any notice.

		POWER RELAYS															
PLY		HPCC		LPR 30 / PCC		LPR 30 E		LPR 40 / HP 40		LPR 40 MB		LPR 60		LPR 80 / LPR 100			
																	
Solder / Plug In		Plug In / Lugs / Solder		Solder / Lugs		Solder / Lugs		1C Screw Terminal / 2C, 3C Lugs & Plug In		Screw Terminal		Screw Terminal		Screw Terminal			
2C		4C		2C / 2A		1C / 2C / 3C		1C		1C / 2C / 3C		1C		1C / 1A		1C / 1A	
10A		20A at 220 VDC		30A		30A		40A		40A		60A		80A		100A	
12-48 VDC		12-220 VDC		12-220 VDC		12-110 VDC		12-220 VDC		12-110 VDC		12-220 VDC		12-24 VDC			
240 VAC		240 VAC		24-240 VAC		240 VAC		24-240 VAC		240 VAC		24-240 VAC		240 VAC			
0.89 - 1.65 W		1.86 - 2.22 W		1.86 - 2.22 W		1.20 - 1.21 W		1.86 - 2.20 W		1.92 - 2.22 W		1.92 - 2.22 W		3 W			
1000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC			
1500 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC		2000 VAC			
500 MΩ		100 MΩ		100 MΩ		100 MΩ		1000 MΩ		1000 MΩ		1000 MΩ		1000 MΩ			
10 <sup>5</sup>		10 <sup>5</sup>		10 <sup>5</sup>		50000		10 <sup>5</sup>		10 <sup>5</sup>		50000		10000			
10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>			
21.5×28 ×35.5 (+7.5)		41.5×28 ×36 (+6.5)		50.5×67(+11.8) ×45		41.2×64.3(+9.6) ×50		37.5×55(+10) ×38.2		41.5×64.8(+11.5) ×40		41.5×56.5(+11.5) ×49		'L' Type :- 50.5×71.5×45.2(+10) 'T' Type :- 50.5×82×45.7		48×82.5×70.5	
40 gms		70 gms		126 gms		125 gms		80 gms		125 gms		125 gms		140 gms		225gms	
LED		-		-		-		-		-		-		-			
Diode		-		-		-		-		-		-		-			
RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10% 2C & 3C		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%		RESISTANCE IN 'Q' ± 10%	
2C	DC	4C	DC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC
-	-	-	-	-	-	-	-	30	4	-	-	-	-	-	-	-	-
130	100	74	-	74	-	74	-	120	16	74	-	74	-	74	-	48	-
-	-	-	-	150	-	150	-	270	-	150	-	150	-	150	-	-	-
650	350	260	-	260	40	480	70	260	40	260	40	260	40	192	-	-	-
2.6k	1.6k	1.2k	-	1.2k	-	1.9k	-	1.2k	-	1.2k	-	1.2k	-	-	-	-	-
-	-	5.5k	-	5.5k	1.3k	10k	2k	5.5k	1.3k	5.5k	1.3k	5.5k	1.3k	-	-	-	-
-	-	26k	-	26k	-	40k	-	26k	-	26k	-	26k	-	-	-	-	-
-	-	-	4.7k	-	4.7k	-	9.5k	-	4.7k	-	4.7k	-	4.7k	-	4.7k	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Coil Resistance for 1) PLY 2C 240 VAC = 18 kΩ 2) PLY 4C 240 VAC = 8 kΩ (± 10%)				* Coil Resistance LPR30 1C 12 VDC = 120 Ω 24 VDC = 480 Ω 240 VAC = 4.7 kΩ (± 10%)													

**NOTE:-** 1) All Specifications / Dimensions subject to Tolerance.  
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GENERAL PURPOSE RELAYS				PCB MOUNT RELAYS										
HCC		MCC		MCC-P / PCB		PLT		PLE		PMCM			SCR	
														
Solder		Solder		PCB		PCB		PCB		PCB / Plug In			PCB	
1C / 2C / 3C		1C / 2C / 3C		2C / 3C		1C / 1NO		1C / 1NO		1C	2C		1C	
12A	16A	5A	10A	6A		30A	NO : 30A NC : 20A	40A	NO : 40A NC : 30A	12A	16A	8A	7A	
6-220 VDC		6-220 VDC		6-220 VDC		12-24 VDC		12-24 VDC		12-24 VDC			12-24 VDC	
6-240 VAC		12-240 VAC		6-240 VAC		-		-		240 VAC			-	
1.20 - 1.21W		0.72 -1.21 W		0.72 -1.21 W		0.90 W		0.90 W		0.53 - 0.55 W			0.36 W	
2000 VAC		1500 VAC		1500 VAC		1500 VAC		1500 VAC		1000 VAC			750 VAC	
2000 VAC		2000 VAC		2000 VAC		2500 VAC		2500 VAC		5000 VAC			1500 VAC	
100 MΩ		100 MΩ		500 MΩ		1000 MΩ		1000 MΩ		1000 MΩ			100 MΩ	
10 <sup>5</sup>		10 <sup>5</sup>		10 <sup>5</sup>		10 <sup>5</sup>		10 <sup>5</sup>		10 <sup>5</sup>			10 <sup>5</sup>	
10 <sup>6</sup>		10 <sup>7</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>		10 <sup>6</sup>			10 <sup>6</sup>	
37.2×53.4(+9.1)×38.5		29×43(+15.5)×34.5		27.6×35×42(+6)		27.5×32×20(+5)		27.5×32×20(+5)		12.7×29×20.4(+4)			19×15.4×15(+4)	
70 gms		53 gms		48 gms		25 gms		22 gms		14 gms			10 gms (approx)	
-		-		-		-		-		-			-	
Diode		-		-		-		-		-			-	
RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%		RESISTANCE IN 'Ω' ± 10%			RESISTANCE IN 'Ω' ± 10%	
DC	AC	DC	AC	DC	AC	DC	DC	DC	DC	DC	AC	DC	DC	
30	4	30	7	30	7	-	-	-	-	-	-	-	-	
120	16	200	-	200	-	160	160	160	160	270	-	-	400	
270	-	390	-	390	-	-	-	-	-	-	-	-	-	
480	70	500	110	500	110	640	640	640	640	1.05k	-	-	1.6k	
1.9k	-	2.25k	440	2.25k	440	-	-	-	-	-	-	-	-	
10k	2k	10k	2.4k	10k	2.4k	-	-	-	-	-	-	-	-	
40k	-	40k	-	40k	-	-	-	-	-	-	35k	-	-	
-	9.5k	-	9.5k	-	9.5k	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
*HCC 16A formerly known as MPR.		* Coil Resistance for MCC 3C 12 VDC = 150Ω* MCC 2C 12 VAC = 30Ω (± 10%)		* Coil Resistance for MCC-P 3C 12 VDC = 150Ω (± 10%)						* Contact Rating: - 12A, 16A & 8A resistive at 30 VDC / 250 VAC				



# PMYS DR 8/14 SOCKET

Formerly known as SDR PMY Din Rail Socket for PMY & PMY-F .



## TECHNICAL SPECIFICATIONS

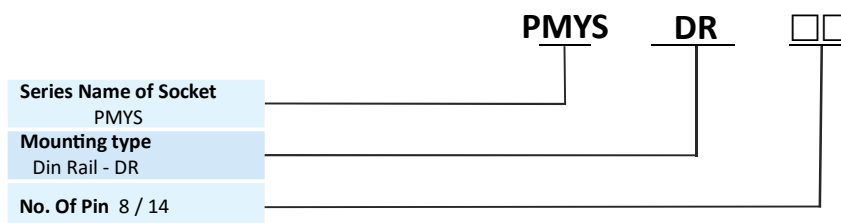
TYPE	PMYS DR 8/14 PIN	
TERMINAL TYPE	Din Rail	
CONTACT CONFIGURATION	8 Pin	14 Pin
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC	10 A	
BODY MATERIAL	High Electric Grade Bakelite	
CONTACT MATERIAL	Electrical Grade Phosphor Bronze Spring Action Tubular Contacts Electroplated	
TERMINALS	Brass Electroplated	
DI-ELECTRIC STRENGTH	2500 VAC	
MAXIMUM TIGHTENING TORQUE	0.6 Nm	
INSULATION RESISTANCE AT 500 VDC AT 27°C & + 65% RH	500MΩ	
AMBIENT TEMPERATURE	-25°C To + 55°C	
ALL DIMENSIONS ARE IN mm (W x L x H)	22.5 X 68.0 (+2.8) X 29.7 (8 Pin)	29.5 X 68.0 (+2.8) X 29.7 (14 Pin)
WEIGHT IN GRAMS	30 gms	45 gms
MOUNTING	Din Rail & Screw	



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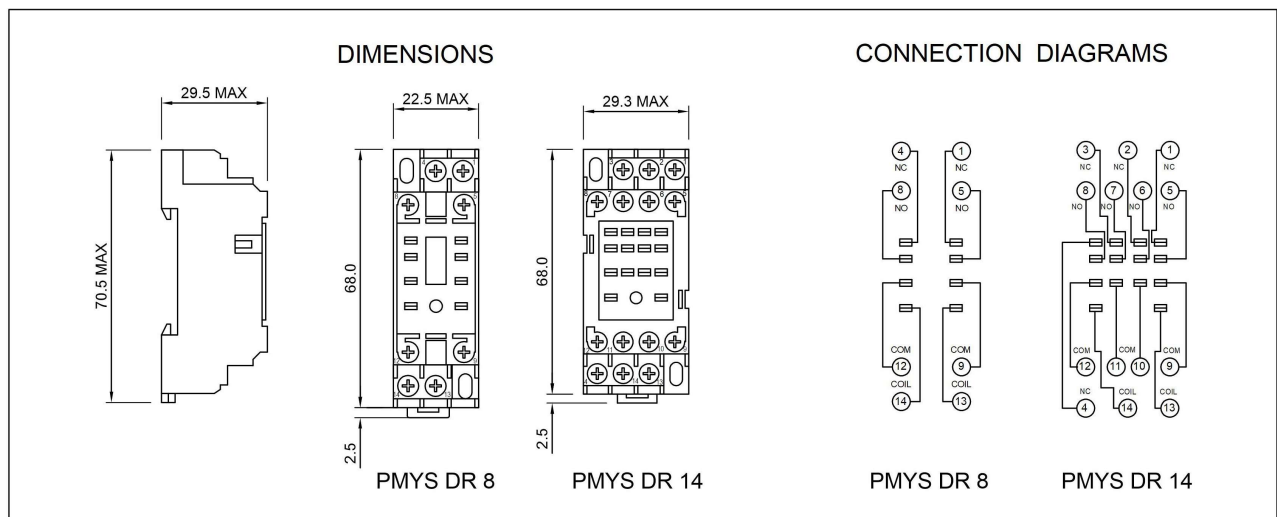
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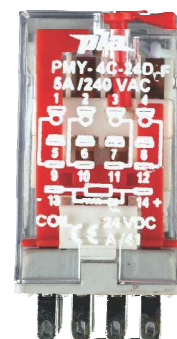
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**NOTE :-** 1) In case no tolerance shown in outline dimensions : Outline dimension 1mm, tolerance should be  $\pm 0.2\text{mm}$   
Outline dimension 1mm and 5mm, tolerance should be  $\pm 0.3\text{mm}$  Outline dimension 5mm tolerance should be  $\pm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

## TECHNICAL SPECIFICATIONS

TYPE		PMY	
TERMINAL TYPE		Plug In	
VERSIONS		With Flag	Without Flag
CONTACT CONFIGURATION		2C	4C
RATED CARRYING CURRENT (RESISTIVE) AT 24 VDC / 250 VAC		10A & 5A	5A
CONTACT MATERIAL		Silver alloy	
INITIAL CONTACT RESISTANCE		0.050 $\Omega$	
COIL NOMINAL VOLTAGES	DC	12-220 V	
	AC	12-240 V @50Hz	
OPERATING POWER (MIN-MAX) FOR DC COIL		0.89 W - 1.15 W	
OPERATING POWER (MIN-MAX) FOR AC COIL		1.10 - 1.25 VA	
DIELECTRIC STRENGTH	BETWEEN OPEN CONTACT	1000 VAC	
	COIL TO CONTACT	2000 VAC	
INSULATION RESISTANCE AT 500 VDC AT 27°C & 65% RH		500 M $\Omega$	
OPERATE TIME (MAX)		20 ms	
RELEASE TIME (MAX)		10 ms	
AMBIENT TEMPERATURE		-30°C To +70°C	
IMPULSE WITHSTAND VOLTAGE (AS PER IEC 60255-5)		5KV 1.2/50 $\mu$ S.	
ELECTRICAL LIFE (NO OF OPERATIONS)		10 <sup>5</sup>	
MECHANICAL LIFE (NO OF OPERATIONS)		10 <sup>6</sup>	
ALL DIMENSIONS ARE IN mm (W x L x H)		21.5 x 28 x 35.5(+7)	
MAX WEIGHT IN GRAMS		37 gms (approx)	
INBUILT FEATURE		LED	
OPTIONAL FEATURES		DIODE	
STANDARDS		Meeting as per IEC 61810-1	



PMY with Flag



PMY Without Flag



## SALIENT FEATURES

- Miniature Industrial Relay
- Long Life & High Reliability
- Dust Protected
- With Led Indicator
- Sockets available

## APPLICATIONS

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

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

2) Recommended socket :- **SDR PMY 8/14 & SPCB PMY 8/14**

3) All Specification/Dimensions subject to Tolerance

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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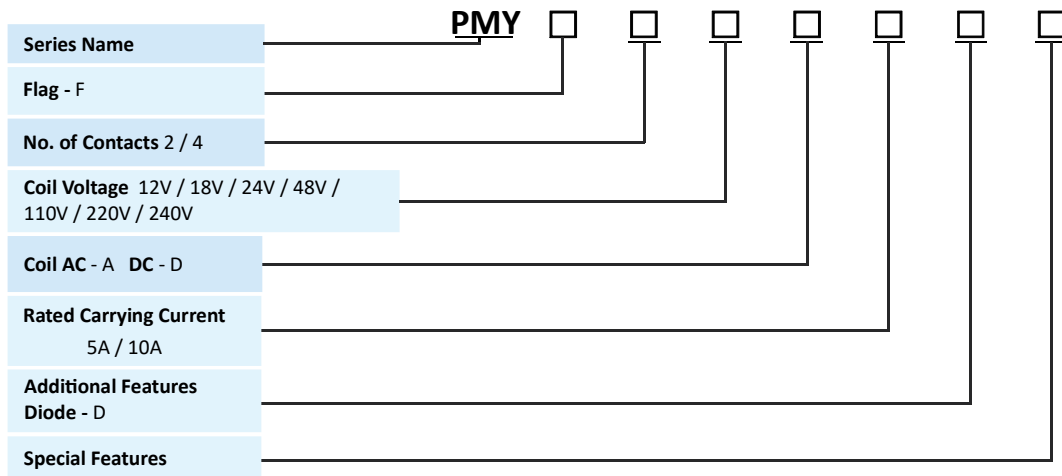


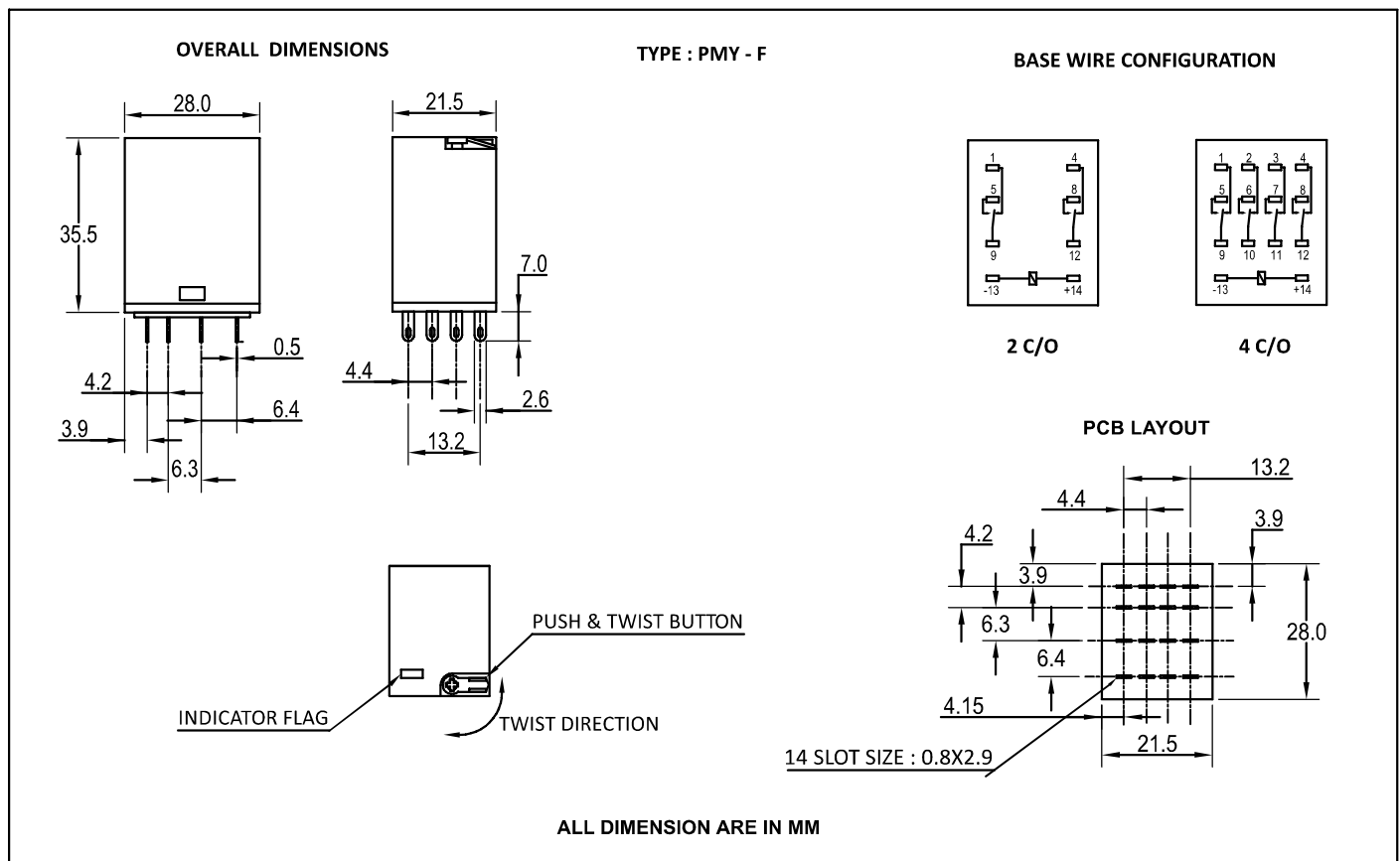
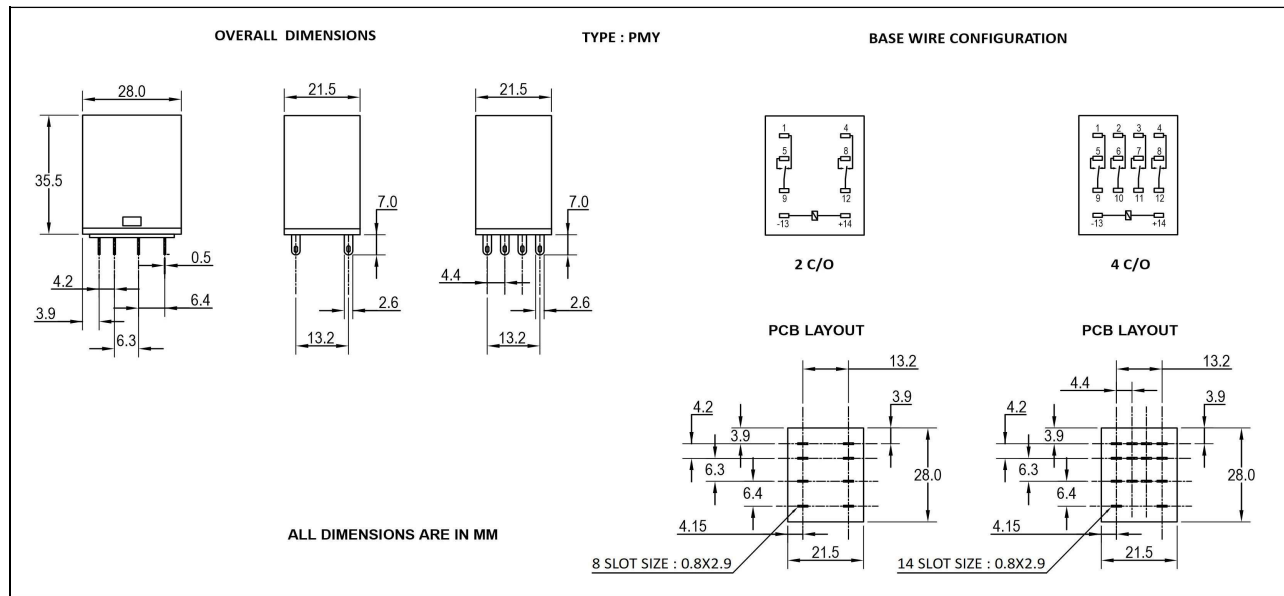
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## COIL – DATA (ALL VALUES AT 27°C ± 2°AMBIENT)

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
48	2.6k	735	38.4	4.8	0.89	1.25
110	11k	4.4k	88	11.0	1.10	1.10
220	42k	-	176	22.0	1.15	-
220	50k		200	22.0	0.97	
240	-	19k	192	24.0	-	1.21

## ORDERING CODE FOR RELAY





**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  $\pm 0.2\text{mm}$



# 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 <sup>#</sup>	10A <sup>#</sup>	12A	16A
CONTACT MATERIAL		Silver alloy			
INITIAL CONTACT RESISTANCE		0.050 Ω			
COIL NOMINAL VOLTAGES	DC	6-250 V			
	AC	6-400 V @ 50Hz			
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 VAC		2000 VAC	
	COIL TO CONTACT	2000 VAC			
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 <sup>5</sup>			
MECHANICAL LIFE (NO OF OPERATIONS)		10 <sup>7</sup>			
ALL DIMENSIONS ARE IN MM (W X L X H)		37 x 37 x 68			
MAX WEIGHT IN GRAMS		75 gms (approx)			
INBUILT FEATURE		LED			
OPTIONAL FEATURES		DIODE			
STANDARDS		IEC 61810-1, IEC 60255-5 meeting as per JSS 50711 and JSS 50101			



## 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 **RS 8E**, For **MPC 3C** is **RS 11E**

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) 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

7) 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 / H MPC) (ALL VALUES AT 27°C ± 2°AMBIENT, COLD START)

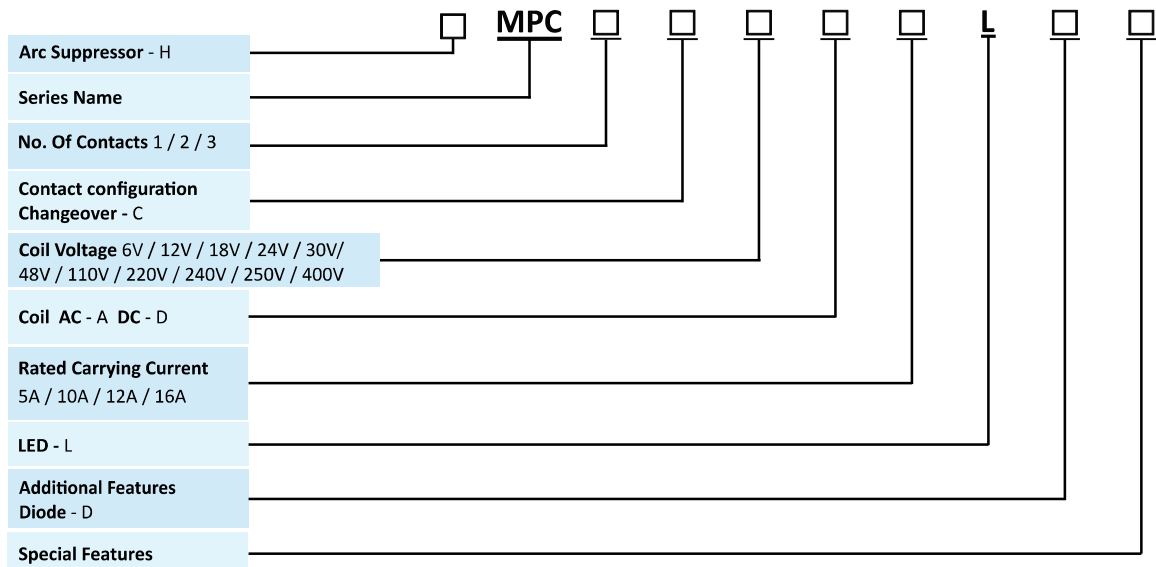
NOMINAL VOLTAGE (V)	RESISTANCE IN OHM'S ± 10%		MUST OPERATE VOLTAGE (V)	MUST RELEASE VOLTAGE (V)	OPERATING POWER FOR COIL	
	DC RELAY	AC RELAY			DC (W)	AC (VA)
6	30	7	4.8	0.6	1.20	2.06
12	1C	200	9.6	1.2	0.72	1.92
	2C	200	9.6	1.2	0.72	1.92
	3C	150	9.6	1.2	0.96	1.92
18	390	-	14.4	1.8	0.83	-
24	500	110	19.2	2.4	1.15	2.09
48	2.25k	440	38.4	4.8	1.02	2.09
110	10k	2.4k	88	11	1.21	2.02
220	40k	-	176	22	1.21	-
240	-	9.5k	192	24	-	2.43
250	50k	-	200	25	1.25	-
400	-	27k	320	40	-	2.37

## 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	70	19.2	2.4	1.20	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	-	2.43
250	45k	-	200	25	1.38	-
400	-	27k	320	40	-	2.37

## ORDERING CODE FOR RELAY



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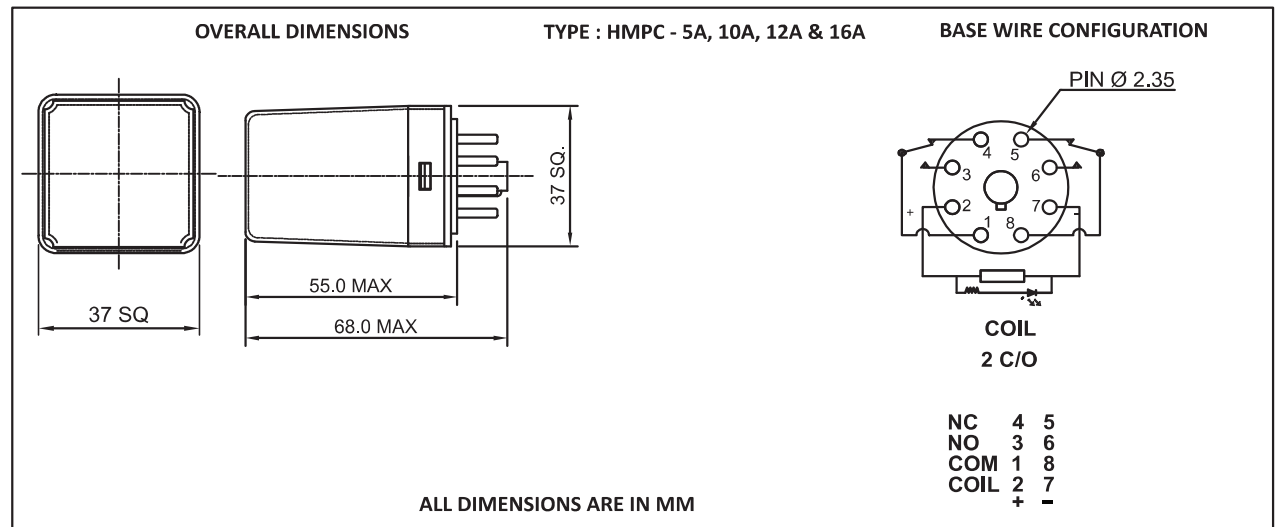
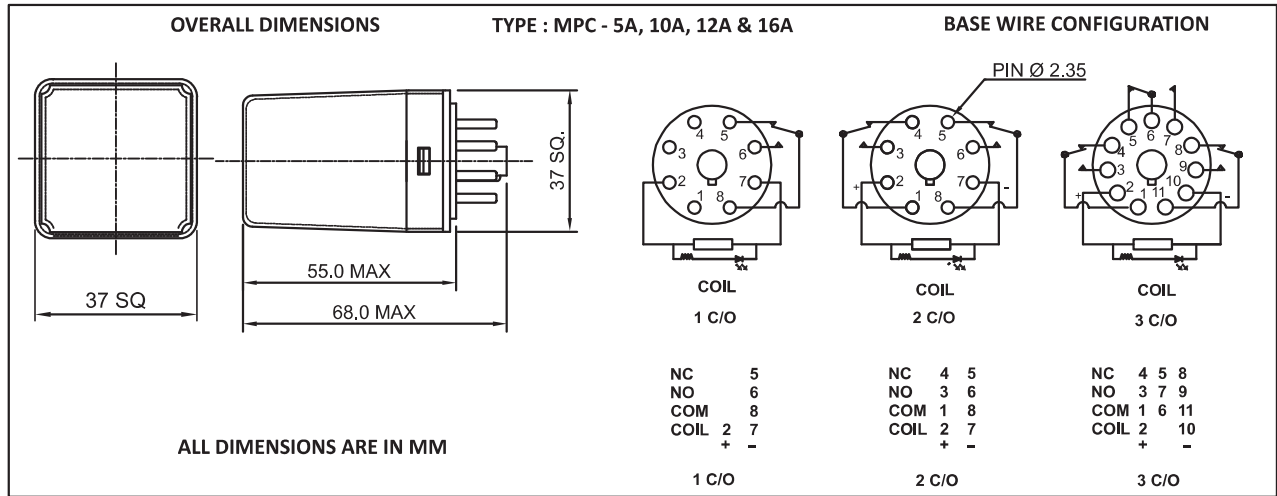


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## OVERALL DIMENSIONS



**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  $\pm 0.2\text{mm}$

# RS 8E / RS11E

Sockets For MPC , HMPC, LMPC & ON OFF Series Relays



## TECHNICAL SPECIFICATIONS

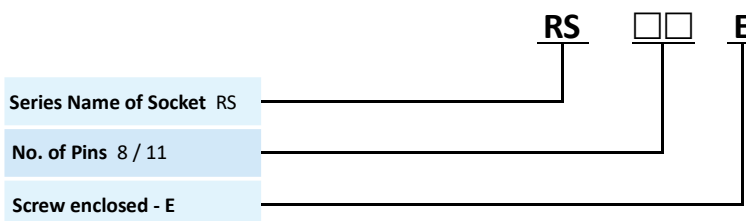
TYPE	RS 8E / RS 11E	
TERMINAL TYPE	Screw Terminal	
CONTACT CONFIGURATION	8 Pin	11 Pin
RATED CARRYING CURRENT (RESISTIVE) AT 220 VDC / 250 VAC	16 A	12 A
BODY MATERIAL	High Electric Grade Bakelite	
CONTACT MATERIAL	Electrical Grade Phosphor Bronze Spring Action Tubular Contacts Electroplated	
DI-ELECTRIC STRENGTH	Brass Electroplated	
MAXIMUM TIGHTENING TORQUE	2 kV	
INSULATION RESISTANCE AT 500 VDC AT 27°C & + 65% RH	0.6 Nm	
AMBIENT TEMPERATURE	-25°C To + 55°C	
ALL DIMENSIONS ARE IN mm	40.2 X 51.5 (+4) X 21	43 X 51 (+4) X 31
WEIGHT IN GRAMS	38 g	54 g
MOUNTING	Din Rail & Screw	



## APPLICATIONS

- Ideal Substitute for Costly Relays & Contractors having Front Screw Terminals
- For Plug in Relays Rapid Stop Unit, Timers, Smoke Detectors & any other Plug in Module / Instrument

## ORDERING CODE FOR RELAY



### NOTE:-

- 1) Recommended for MPC series relays, LMPC Relay, ON Relay & OFF Relay.
- 2) All Specification / Dimensions subject to Tolerance.
- 3) RS 11E socket is used for LMPC relays
- 4) RS 8E socket is used for On Off relays



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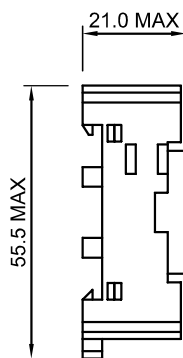


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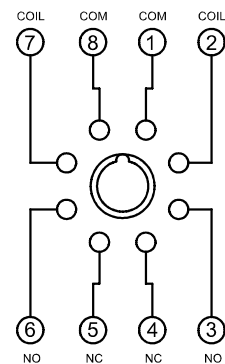
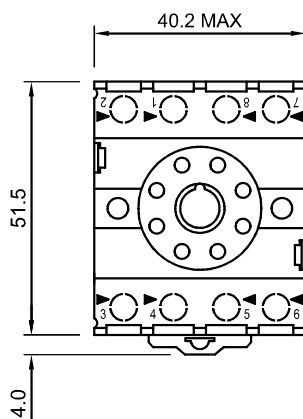
DIMENSIONS

TYPE : RS8E

CONNECTION DIAGRAMS



RS8E

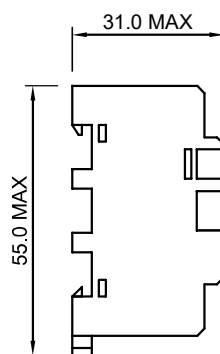


RS8E

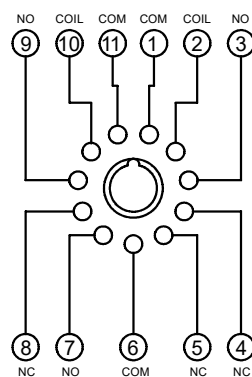
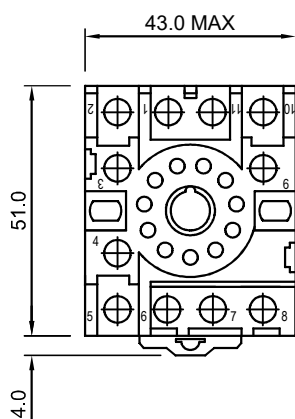
DIMENSIONS

TYPE : RS11E

CONNECTION DIAGRAMS



RS11E



RS11E

**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  $\pm 0.2\text{mm}$