leone[™]



www.leonerelays.com

About

'Leone' was established in 2000-2001 under the Evolute Umbrella. Leone is a leading relay manufacturer & supplier established in 2000-01 under the Evolute umbrella. Manufacturing the most optimum quality relays at competitive rates, Leone has emerged as a house of relays catering to diverse applications across industry domains.

Evolute Group of Companies is one of India's fastest growing conglomerates, providing diverse electronic solutions to meet the needs of various sectors, industries and people across the world. With a strong focus on innovation, customer centricity and the energy and enthusiasm to be ahead of change, Evolute Group of Companies seeks to bring about a complete transformation in the world, through its revolutionary products and technologies



US

Leone has designed a basket of Relay solutions to meet the needs of various Industries. We have 3 categories Leone Economo, Leone Premio and Exclusivo to cater the specific needs of various application fields.

At Leone we have introduced new technology and also built up dependable quality management system. Few of our Products have gained the certificates of UL. Leone brand relays are widely used in household electrical appliance, telecommunication, automation control, automobile, Line Conditioning equipments & industrial controls etc.



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	LST1 -	DC5V - 3	S
Relay Type:			
Coil Voltage:- 3 ~ 24VDC-			
Type of Sealing:- S: Plastic S	ealed Ty	ype ———	

	Dimension L * W * H (mm)	ension L * W * H (mm) 12.5 * 7.5 * 10.3					
Features	Terminal Type	PCB					
	Weight	2.2 gm Ap	2.2 gm Approximately				
	Contact Form/Resistance	1C / 100n	nΩ Max. @ 1A, 6VDC				
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	2A @120	VAC / 2A @24VDC				
	Coil Voltage (DC)	$3\sim 24$ VE	C				
	Coil Power Consumption	0.2W					
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		5 VDC	120	75%	10%		
		12 VDC	720	75%	10%		
		24 VDC	2880	75%	10%		
	Dielectric Strength	400VAC (Between open Contacts)					
	Dielectric Strength	1000VAC (Between Coil and Contacts)					
General Data	Insulation Resistance	100MΩ 500VDC					
deneral Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature $-30 \text{ °C} \sim +70 \text{ °C}$						
Mounting Diagram							
Application	Telephone, Fax Machine, Cordless Phone, Server, Modem, etc.						



	LI2S - 12VDC - 1
Relay Type:	
Coil Voltage:- 5 ~ 24VDC-	
Coil Sensitivity:- T: 0.2W -	

	Dimension L * W * H (mm)	20.2 * 10 * 12					
Features	Terminal Type	PCB					
	Weight	5 gm Approximately					
	Contact Form, Resistance	2C, 100m	2C, 100mΩ Max. @ 1A, 6VDC				
Contact Data	Contact Material	Silver Allo	У				
	Contact Capacity	1A @120VAC, 1A @24VDC					
	Coil Voltage (DC)	$5\sim 24$ VE	C				
	Coil Power Consumption	0.2W					
		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
Coil Data		5 VDC	120	75%	10%		
	Coil Specification	9 VDC	400	75%	10%		
		12 VDC	720	75%	10%		
		24 VDC	2880	75%	10%		
	Dielectric Strength	600 VAC	@50 Hz / Min (Betwee	en open Contacts	;)		
	Dielectric Strength	1000 VAC	@50 Hz / Min (Betwe	en open Contac	ts)		
Conevel Data	Insulation Resistance	100MQ 500VDC					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life 1 x 10 ⁷						
	Operating Temperature	- 30 °C ~	+ 70°C				
Mounting Diagram							
Application	Telecommunication, Electronics equipment etc.						





LSC3 - 12VDC - T

	Dimension L * W * H (mm)	15.5 * 10.5 * 11.8					
Features	Terminal Type	PCB					
	Weight	3.5 gm Approximately					
	Contact Form	1C	1C				
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	3A @ 220)VAC, 3A @	30VDC			
	Coil Voltage (DC)	$3\sim 24$ VE	C				
Coil Data	Coil Power Consumption	0.36W / 0.2W					
	Coil Specification	Coil Voltage	Coil Resistant 0.36W	ce (Ω)±10% 0.2W	Pull in Voltage (VDC)	Drop Out Voltage (VDC)	
		5 VDC	70	120	75%	10%	
		12 VDC	400	720	75%	10%	
		24 VDC	1600	2880	75%	10%	
	Dielestrie Otresseth	500 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strengtri	1000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Conoral Data	Insulation Resistance	100MΩ					
delleral Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 25 °C ~	+ 70°C				
Mounting Diagram	n 155	10.5 81		ŀ			

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BOTTOM VIEW (1C)

Application

Telecom, EPABX, Security System etc.

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2.54 10.16





LZH3 - DC5V -	S - H
Relay Type:	
Coil Voltage:- 3 ~ 24VDC	
Type of Sealing:- S: Plastic Sealed Type	
Coil Power:- 0.2W	

	Dimension L * W * H (mm)	15.5 * 10.5 * 11.8						
Features	Terminal Type	PCB						
	Weight	3.5 gm Ap	3.5 gm Approximately					
	Contact Form, Resistance	1C, 100mΩ Max. @ 1A, 6VDC						
Contact Data	Contact Material	Ag Alloy						
	Contact Capacity	3A @250	VAC / 3A @30VDC					
	Coil Voltage (DC)	$3\sim 24$ VE	C					
	Coil Power Consumption	0.2W						
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
		5 VDC	120	75%	10%			
		12 VDC	720	75%	10%			
		24 VDC	2880	75%	10%			
	Dielectric Strength	500VAC (Between open Contacts)						
		1000VAC (Between Coil and Contacts)						
General Data	Insulation Resistance	100MQ 500VDC						
	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature	$-25 ^{\circ}\text{C} \sim +70 ^{\circ}\text{C}$						
Mounting Diagram	155 7 7 1016 224 7	0.5 8 62	5-91.0					

Application Telephone, Fax Machine, Cordless Phone, Server, Modem, etc.





	SCA - 20 - 12	/DC - C
Relay Type:		
Coil Voltage:- 9 ~ 12VDC -		
Contact Form: Form A		
Form C		

	Dimension L * W * H (mm)	15.7 * 12.2 * 13.7					
Features	Terminal Type	PCB					
	Weight	6 gm Approximately					
	Contact Form	1A/1C Contact Resistance : 100mΩ @ 1A, 6VDC					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	20A @14	VDC 10A @14VDC				
	Coil Voltage (DC)	9 VDC \sim	12 VDC				
	Coil Power Consumption	0.6W					
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		9 VDC	135	80%	10%		
		12 VDC	240	80%	10%		
	Dioloctric Strongth	500 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strength	1000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Conoral Data	Insulation Resistance	100ΜΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	-40 °C $\sim +85$ °C					
Mounting Diagram							
Application	Flashers, Power Windows, C	ar Control	Switching Box, Autom	otive applications	s etc.		

AUTOMOTIVE RELAY







	LA30 - S - DC12V - O
Relay Type:	
Sealing:- S: Plastic	
Coil Voltage :- DC: 6~24V	
Casing:- O: Without Casing Nil: With Casing	

	Dimension L * W * H (mm)	26.5 * 21 * 21					
Features	Terminal Type	PCB					
	Weight	21 gm Approximately					
	Contact Form/Resistance	1C 100mΩ @ 1A, 6VDC					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	40A / 14V	DC				
Coil Data	Coil Voltage (DC)	$6 \sim 24 VD$	C				
	Coil Power Consumption	1.6W					
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		12 VDC	90	70%	5%		
		24 VDC	362	70%	5%		
	Dielectric Strength	500VAC (Between open Contacts)					
		750VAC (Between coil & Contacts)					
Conoral Data	Insulation Resistance	100MQ 500VDC					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim	+ 85°C				
Mounting			2-012 0		ຽງ		

Diagram









Application

Wiper, Alarm System, Power Antenna, Power Window, Towing Bar, Air Conditioning System, Lamp Control System, etc.





	LD40	12VDC
Relay Type:		
Coil Voltage: 12 - 24 VDC -		

	Dimension L * W * H (mm)	28 * 28 * 25					
Features	Terminal Type	Solder / Plug in					
	Weight	37 gm Approximately					
	Contact Form	1A, 1C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	1A: 40A @ 14VDC, 1C: NO:40A @ 14VDC, NC:30A @14VDC					
	Coil Voltage (DC)	12 ~ 24VDC					
Coil Data	Coil Power Consumption	1.6W					
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		12 VDC	80	80%	5%		
		24 VDC	320	80%	5%		
		500 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strength	1000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Conoral Data	Insulation Resistance	100ΜΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 30 °C \sim	+ 85°C				
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Mounting Diagram



Application

Flashers, Power Windows, Car Control Switching Box, Automotive applications etc.





	LD70	12VDC
Relay Type:		
Coil Voltage: 12 - 24 VDC -		

	Dimension L * W * H (mm)	28 * 28 * 25					
Features	Terminal Type	Solder / Plug in					
	Weight	48 gm Approximately					
	Contact Form	1A, 1C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	1A: 70A @	D 14VDC 1C: NO: 704	@ 14VDC, NC: (60A @ 14VDC.		
	Coil Voltage (DC)	$12 \sim 24 V$	DC				
Coil Data	Coil Power Consumption	1.6W					
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		12 VDC	80	80%	5%		
		24 VDC	320	80%	5%		
	Distantia Obereath	500 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strength	1000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Gonoral Data	Insulation Resistance	100ΜΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 30 °C \sim	+ 85°C				
	87 87 87 80 80 80 80 80 80 80 80 80 85 80 85						

Mounting Diagram



Application

Flashers, Power Windows, Car Control Switching Box, Automotive applications etc.





	SC5 - 5	S - DC12V
Relay Type:		
Sealing:- S: Plastic Sealed Type		
Coil Voltage :- DC: 6~48V		

	Dimension L * W * H (mm)	19 * 15.5	* 15.5				
Features	Terminal Type	PCB					
	Weight	10.5 gm A	Approximately				
	Contact Form	1C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	7A @ 300)VAC, 10A @ 28VDC				
	Coil Voltage (DC)	$6\sim48~VE$	C				
	Coil Power Consumption	0.36W	0.36W				
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		6 VDC	100	80%	5%		
		12 VDC	400	80%	5%		
		24 VDC	1600	80%	5%		
		750 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strengtri	1500 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Caparal Data	Insulation Resistance	100MΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim	+ 70°C				
Mounting Diagram	5 5 7 7 7 7 7 7 7 7 7 7 7 7 7				0-/0		

Application

UPS, Invertor, A/C Microwave, Vending Machine, Timers, SMPS, Card Reader etc.

SC5 Ag

PCB





SC5 - Ag -	12VDC
Relay Type:	
Contact Material:- Ag :- Ag Alloy	
Coil Voltage:- 3 ~ 48VDC	

	Dimension L * W * H (mm)	19 * 15.5	* 15.8					
Features	Terminal Type	PCB						
	Weight	10 gm Ap	10 gm Approximately					
	Contact Form	1C	C Contact Resistance: 100mΩ Max. @ 1A, 6VDC					
Contact Data	Contact Material	Ag Alloy						
	Contact Capacity	7A @300	VAC / 10A @120VAC /	/ 10A @28VDC				
	Coil Voltage (DC)	$3 \sim 48 \text{ VE}$	C					
	Coil Power Consumption	0.36W						
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	6 VDC	100	75%	10%			
		12 VDC	400	75%	10%			
		24 VDC	1600	75%	10%			
	Dialactria Strangth	750 VAC (Between Open Contacts)						
	Dielectric Strength	1500 VAC	(Between Coil & Cor	ntacts)				
Conorol Data	Insulation Resistance	100MΩ 500VDC						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature	- 40 $^\circ C \sim$	+ 70°C					
Mounting Diagram			BOTTON VIEW LICO	5-#13 0 122 0 0 0 0 0				
Application	Television, Stereo, Microwave, Air	r Conditioner	, Refrigerator, Iron, Electr	ical Boiler, Satellite	Receiver, etc.			

SC5-Eco





	Dimension L * W * H (mm)	19 * 15.5 * 15.5							
Features	Terminal Type	PCB							
	Weight	10.5 gm A	10.5 gm Approximately						
	Contact Form	1C							
Contact Data	Contact Material	Ag Alloy							
	Contact Capacity	5A@240\	/AC, 10A@28VDC						
	Coil Voltage (DC)	$6 \sim 48 \text{ VI}$	C						
	Coil Power Consumption	0.36W							
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)				
	Coil Specification	6 VDC	100	80%	5%				
		12 VDC	400	80%	5%				
		24 VDC	1600	80%	5%				
	Dialactria Strangth	750 VAC @ 50 Hz / Min (Between Open Contacts)							
	Dielectric Strength	1500 VAC @ 50 Hz / Min (Between Coil & Contacts)							
General Data	Insulation Resistance	100ΜΩ							
General Data	Electrical Life	1 x 10 ⁵							
	Mechanical Life	1 x 10 ⁷							
	Operating Temperature	- 40 °C \sim	+ 70°C						
Mounting Diagram	2 2 2 19 19 10 10 10 10 10 10 10 10 10 10								
Application	UPS, Inverter, AC, Microwave, Vending Machine, Timer, SMPS, Card Reader etc.								

SC10





	SC10 - S - DC12V
Relay Type:	
Sealing: S : Plastic Sealed Type Coil Voltage:- 6 ~ 48VDC	

	Dimension L * W * H (mm)	19 * 15.5 * 15.5						
Features	Terminal Type	PCB						
	Weight	10.5 gm A	Approximately					
	Contact Form	1A, 1C						
Contact Data	Contact Material	Ag Alloy						
	Contact Capacity	10A @30	0VAC, 10A @ 28VDC					
	Coil Voltage (DC)	$6 \sim 48 \text{ VE}$	C					
	Coil Power Consumption	0.36W						
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
		6 VDC	100	80%	5%			
		12 VDC	400	80%	5%			
		24 VDC	1600	80%	5%			
		750 VAC @ 50 Hz / Min (Between Open Contacts)						
	Dielectric Strength	1500 VAC @ 50 Hz / Min (Between Coil & Contacts)						
Caractel Data	Insulation Resistance	250ΜΩ						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature $-40 \text{ °C} \sim +70 \text{ °C}$							
Mounting Diagram		50 ED	2-44 3 3 3 3 3 3 3 4 122 4-41					

Application

UPS, Inverter, AC, Microwave, Vending Machine, Timer, SMPS, Card Reader etc.







	L90) Ç	S	DC	12V
Relay Type:					
Contact Form: 1C					
Sealing Type: NIL-Open					
S: Sealed					
Coil Voltage:- 5 \sim 24VDC —]

	Dimension L * W * H (mm)	32.5 * 27.5 * 20						
Features	Terminal Type	PCB						
	Weight	30 gm Ap	proximately					
	Contact Form	1A, 1C						
Contact Data	Contact Material	Ag Alloy						
	Contact Capacity	30A @ 25	50VAC, 30A @ 28VDC					
	Coil Voltage (DC)	$5\sim 24$ VE	C					
	Coil Power Consumption	0.93W						
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	12 VDC	155	80%	5%			
		24 VDC	660	80%	5%			
	Dialactria Strangth	1500 VAC @ 50 Hz / Min (Between Open Contacts)						
	Dielectric Strengtri	2500 VAC @ 50 Hz / Min (Between Coil & Contacts)						
Conorol Data	Insulation Resistance	500ΜΩ						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature	- 55°C ~	+ 85°C					
Mounting Diagram	4-92.1 2-91.2							
Application	HVAC, Domestic application, Car Control Switching Box etc.							

L90H







	L90H C S DC12V
Relay Type:	
Contact Form: 1C	
Sealing Type: Nil: Open	
Coil Voltage:- $6 \sim 48$ VDC —	

	Dimension L * W * H (mm)) 32 * 26.5 * 18.2					
Features	Terminal Type	PCB					
	Weight	25 gm Approximately					
	Contact Form/Resistance	1C / 100mΩ Max. @ 1A / 6VDC					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	40A @25	0VAC / 40A @28VDC				
	Coil Voltage (DC)	$6\sim48$ VI	C				
Coil Data	Coil Power Consumption	0.9W					
		Coil Voltage	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	12 VDC	155	75%	10%		
		24 VDC	640	75%	10%		
	Dielectric Strength	1200 VAC (Between Open Contacts)					
	Dielectric Strengtri	1500 VAC (Between Coil & Contacts)					
General Data	Insulation Resistance	100MΩ 500VDC					
	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁶					
	Operating Temperature	$-25 \ ^{\circ}\text{C} \sim +55 \ ^{\circ}\text{C}$					
Mounting Diagram							
Application	Television, Stereo, Microwave, Ai	r Conditione	r, Refrigerator, Iron, Electr	ical Boiler, Satellite I	Receiver, etc.		







	L91	CS	DC1	2\
Relay Type:				
Contact Form: 1C				
Sealing Type: NIL-Open				
U U				

	Dimension L * W * H (mm)	32.5 * 27.5 * 26					
Features	Terminal Type	PCB					
	Weight	32 gm Ap	proxima	tely			
	Contact Form	1A, 1C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	NO: 30A	@ 240V#	AC, NC: 20A (@ 240VAC , 30A	@ 28VDC	
	Coil Voltage (DC)	5 ~ 24 V[C				
	Coil Power Consumption	0.93W					
Coil Data		Coil Voltage	Coil Re ±10%	sistance (Ω)	Pull in Voltage (VDC)	Drop Out Voltage (VDC)	
	Coil Specification	12 VDC		155	80%	5%	
		24 VDC		660	80%	5%	
	Dialactric Strangth	1500 VAC @ 50 Hz / Min (Between Open Contacts)					
		2500 VAC @ 50 Hz / Min (Between Coil & Contacts)					
General Data	Insulation Resistance	500ΜΩ					
deneral Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 55°C ~	+ 85°C				
Mounting Diagram	3-92.1 2-91.2 2.54 7.6 - 15.2						
Application	HVAC, Domestic Applications, Car Control Switching Box etc						



L93 C S DC12V	!
Relay Type:	
Contact Form: 1C	
Sealing Type: NIL-Open S: Sealed	
Coil Voltage:- 5 ~ 24VDC	

	Dimension L * W * H (mm)	32 * 27.5 * 20							
Features	Terminal Type	PCB							
	Weight	35 gm Approximately							
	Contact Form	1A, 1C							
Contact Data	Contact Material	Ag Alloy							
	Contact Capacity	1C: NO 3	0A @ 24	IOVAC , NC 20	DA @ 240VAC , 3	30A @ 2	8VDC		
	Coil Voltage (DC)	5 ~ 24 V[C						
Coil Data	Coil Power Consumption	0.93W							
		Coil Voltage	Coil Re ±10%	sistance (Ω)	Pull in Voltage (VDC)	Drop (Voltag	Dut e (VDC)		
	Coil Specification	12 VDC		155	80%		5%		
		24 VDC		660	80%		5%		
	Dioloctric Strongth	1500 VAC @ 50 Hz / Min (Between Open Contacts)							
		2500 VAC @ 50 Hz / Min (Between Coil & Contacts)							
General Data	Insulation Resistance	500ΜΩ							
deneral Data	Electrical Life	1 x 10 ⁵							
	Mechanical Life	1 x 10 ⁷							
	Operating Temperature	- 55°C ~	+ 85°C						
Mounting Diagram									
Application	HVAC, Domestic Applications, Car Control Switching Box etc								





L93H	I - C S - DC12V
Relay Type:	
Contact Form:- 1C	
Type of Sealing:- S: Sealed Type —	
Coil Voltage:- 12~24VDC	

	Dimension L * W * H (mm)	32.2 * 27.5 * 27						
Features	Terminal Type	PCB						
	Weight	28 gm Ap	proxima	tely				
	Contact Form/Resistance	1C / 100	mΩ Max	«. @ 1A / 6VD	С			
Contact Data	Contact Material	Ag Alloy						
	Contact Capacity	40A @25	0VAC / 4	0A @28VDC				
	Coil Voltage (DC)	12 ~ 24 \	/DC					
Coil Data	Coil Power Consumption	0.9W						
		Coil Voltage	Coil Re ±10%	sistance (Ω)	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
	Coil Specification	12 VDC		155	75%	10%		
		24 VDC		640	75%	10%		
	Dielectric Strength	1200 VAC (Between Open Contacts)						
		1500 VAC (Between Coil & Contacts)						
General Data	Insulation Resistance	100MΩ 500VDC						
	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁶						
	Operating Temperature	- 25 °C ~	+ 55°C					
Mounting Diagram		19 27	n <u>3.3</u>	11.8 1-92,1 1-92,1 1-92,1 10.2				
Application	Television, Stereo, Microwave, Ai	r Conditione	r, Refriger	ator, Iron, Electr	rical Boiler, Satellite	Receiver, etc.		

LMI1

INDUSTRIAL RELAY



	LMI1	- L - DC5V
Relay Type:		
Coil Type:- L: High Sensitive:	0.53W-	
Coil Voltage:- 3 ~ 48VDC		

leone

Economo

	Dimension L * W * H (mm)	29 * 12.6	* 20.6					
Features	Terminal Type	PCB						
	Weight	13 gm Ap	oproximately					
	Contact Form	2C						
Our de la Dada	Contact Material	Ag Alloy						
Contact Data	Contact Capacity	10A @240VAC, 10A @30VDC						
	Contact Resistance	100 mΩ (@ 1A 6 VDC					
	Coil Voltage (DC)	$3 \sim 48 V C$	C					
	Coil Power Consumption	0.53W						
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	5 VDC	50	80%	5%			
		12 VDC	270	80%	5%			
		24 VDC	1100	80%	5%			
	Dialactria Strangth	1000 VAC (Between Open Contacts)						
	Dielectric Strength	5000 VAC (Between Coil & Contacts)						
	Insulation Resistance	100 MΩ 500 VDC						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature	$-30 \ ^{\circ}\text{C} \sim +70 \ ^{\circ}\text{C}$						
Mounting Diagram	29.0 - 0.3 - 23 - 35 - 35	912 	18 26 		^د ي ٢			
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.							

LMI1-T

INDUSTRIAL RELAY





LMI1 - L - DC	J5V - I
Relay Type:	
Coil Type:- L: High Sensitive: 0.53W	
Coil Voltage:- 3 ~ 48VDC	
Transparent	

	Dimension L * W * H (mm)	29 * 12.6	* 20.6					
Features	Terminal Type	PCB						
	Weight	13 gm Ap	oproximately					
	Contact Form	1C						
Or when the Destre	Contact Material	Ag Alloy						
Contact Data	Contact Capacity	10A @240VAC, 10A @30VDC						
	Contact Resistance	100 mΩ (@ 1A 6 VDC					
	Coil Voltage (DC)	$3 \sim 48 VE$	C					
Coil Data	Coil Power Consumption	0.53W						
		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	5 VDC	50	80%	5%			
		12 VDC	270	80%	5%			
		24 VDC	1100	80%	5%			
	Dielectrie Strength	1000 VAC (Between Open Contacts)						
	Dielectric Strength	5000 VAC (Between Coil & Contacts)						
	Insulation Resistance	100 MΩ 500 VDC						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature	$-30\ ^\circ\mathrm{C} \sim +\ 70\ ^\circ\mathrm{C}$						
Mounting Diagram	29.0 - 0.3 - 21 - 35 - 35 35 - 35 - 35 	912	18 26 		^و لي ٢			
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.							





LMI	12	- L	- DC	5V
Relay Type:				
Coil Type:- L: High Sensitive: 0.53	w-			
Coil Voltage:- 3 ~ 48VDC				

	Dimension L * W * H (mm)	* H (mm) 29 * 12.6 * 20.6					
Features	Terminal Type	PCB					
	Weight	13 gm Approximately					
	Contact Form	2C					
	Contact Material	Ag Alloy					
Contact Data	Contact Capacity	5A @240	VAC / 5A @30VDC				
	Contact Resistance	100 mΩ N	Max. @ 1A, 6VDC				
	Coil Voltage (DC)	$3 \sim 48 \text{VD}$	C				
	Coil Power Consumption	0.53W					
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
	Coil Specification	5 VDC	50	80%	5%		
		12 VDC	270	80%	5%		
		24 VDC	1100	80%	5%		
	Dialactria Strangth	1000 VAC (Between Open Contacts)					
	Dielectric Strength	5000 VAC (Between Coil & Contacts)					
O	Insulation Resistance	100 MΩ 500 VDC					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature $-30 \text{ °C} \sim +70 \text{ °C}$						
Mounting Diagram		126 	18 15.24 5.18 0 0 0 - - - - - - - - - - - - -				
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.						

LMI2-T

INDUSTRIAL RELAY





LMI2 - L -	DC5V - T
Relay Type:	
Coil Type:- L: High Sensitive: 0.53W	
Coil Voltage:- 3 ~ 48VDC	
Transparent	

	Dimension L * W * H (mm)	^x W * H (mm) 29 * 12.6 * 20.6						
Features	Terminal Type	PCB						
	Weight	13 gm Approximately						
	Contact Form	2C						
	Contact Material	Ag Alloy						
Contact Data	Contact Capacity	5A @240	VAC, 5A @30VDC					
	Contact Resistance	100 mΩ N	/lax.@ 1A, 6VDC					
	Coil Voltage (DC)	$3 \sim 48 \text{VD}$	C					
	Coil Power Consumption	0.53W						
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)			
	Coil Specification	5 VDC	50	80%	5%			
		12 VDC	270	80%	5%			
		24 VDC	1100	80%	5%			
	Dialactria Strangth	1000 VAC (Between Open Contacts)						
	Dielectric Strength	5000 VAC (Between Coil & Contacts)						
O	Insulation Resistance	100 MΩ 500 VDC						
General Data	Electrical Life	1 x 10 ⁵						
	Mechanical Life	1 x 10 ⁷						
	Operating Temperature $-30 \text{ °C} \sim +70 \text{ °C}$							
Mounting Diagram		128	18 15.24 5.88 0 0 8-01.3					
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.							







LMZI - L - DC5	V
Relay Type:	
Coil Type:- L: High Sensitive: 0.53W	
Coil Voltage:- 3 ~ 48VDC	

	Dimension L * W * H (mm)	29 * 12.6 * 20.6					
Features	Terminal Type	PCB					
	Weight	13 gm Approximately					
	Contact Form	1C					
Contact Data	Contact Material	Ag Alloy					
Contact Data	Contact Capacity	16A @240	0VAC / 16A @30VDC				
	Contact Resistance	50 mΩ @	1A, 6 VDC				
	Coil Voltage (DC)	$3 \sim 48 \text{VD}$	C				
	Coil Power Consumption	0.53W					
Coil Data		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
	Coil Specification	5 VDC	50	80%	5%		
		12 VDC	270	80%	5%		
		24 VDC	1100	80%	5%		
	Dielectric Strength	1000 VAC	(Between Open Con	tacts)			
	Dielectric Strength	5000 VAC	(Between Coil & Co	ntacts)			
Conorol Data	Insulation Resistance	100 MΩ 5	00 VDC				
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 30 °C +	- 70°C				
Mounting Diagram		R4 18 9 1-	15.24 5.08 5.1 				
Application	Television, Stereo, Microwave, Ai	r Conditioner	r, Refrigerator, Iron, Electri	ical Boiler, Satellite	Receiver, etc.		



	LRT1 - DC12V - S - 1C
Relay Type:	
Coil Voltage:- 5 \sim 110VDC	
Type of Sealing:- S: Plastic	Sealed Type —
Contact Form:- 1C	

leone

Economo

	Dimension L * W * H (mm)	30 * 12.7 * 15.7					
Features	Terminal Type	PCB					
	Weight	13 gm Approximately					
	Contact Form	1C					
Contract Data	Contact Material	Ag Alloy					
Contact Data	Contact Capacity	12A @250	OVAC / 12A @30VDC				
	Contact Resistance	100 mΩ @	@ 1A, 6 VDC				
	Coil Voltage (DC)	$5 \sim 110 V$	DC				
Coil Data	Coil Power Consumption	0.4W					
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		12 VDC	360	75%	10%		
		24 VDC	1440	75%	10%		
		110 VDC	30000	75%	10%		
	Dielectric Strength	1000 VAC (Between Open Contacts)					
	Dielectric Strengtri	5000 VAC (Between Coil & Contacts)					
Coneval Data	Insulation Resistance	100 MΩ 500 VDC					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	-40 °C \sim + 70°C					
Mounting Diagram	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.8	0.8 5-#1.3 <u>3.5</u>		ر گ		
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.						





LR12 - DU12V - S - 2U
Relay Type:
Coil Voltage:- 5 ~ 110VDC
Type of Sealing:- S: Plastic Sealed Type
Contact Form:- 2C

	Dimension L * W * H (mm)	30 * 12.7 * 15.7					
Features	Terminal Type	PCB					
	Weight	13 gm Approximately					
	Contact Form	2C					
Contract Data	Contact Material	Ag Alloy					
Contact Data	Contact Capacity	8A @250	VAC / 8A @30VDC				
	Contact Resistance	100 mΩ (@ 1A, 6 VDC				
	Coil Voltage (DC)	$5 \sim 110 V$	DC				
Coil Data	Coil Power Consumption	0.4W					
		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
	Coil Specification	6 VDC	90	75%	10%		
		12 VDC	360	75%	10%		
		24 VDC	1440	75%	10%		
	Dielectric Strength	1000 VAC (Between Open Contacts)					
	Dielectric Strengtri	5000 VAC	C (Between Coil & Co	ntacts)			
Conoral Data	Insulation Resistance	100 MΩ 5	500 VDC				
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature $-40 ^\circ\text{C} \sim +70 ^\circ\text{C}$						
Mounting Diagram		B 7.62		2.54 0 0 39 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9			
Application	Switching Power Supply, Vending	Machine, M	Ionitor, UPS, Timer, Card	Reader, Frequency	Transformer, etc.		



LJ5

	LJ5 - DC24V - S - H - A
Relay Type:	
Coil Voltage:- 3 ~ 24VDC	
Type of Sealing: S; Plastic Sealed	Туре
Coil Power:- H:- 0.45W, D:- 0.2W	
Contact Form: A:1 Form A	

	Dimension L * W * H (mm)	18.4 * 10.2 * 15.3					
Features	Terminal Type	PCB					
	Weight	6 gm Approximately					
	Contact Form	1A	1A				
Or start Date	Contact Material	Ag Alloy					
Contact Data	Contact Capacity	5A @250	VAC / 5A @	30VDC			
	Contact Resistance	100 mΩ (@ 1A, 6 VDC	2			
	Coil Voltage (DC)	$3\sim 24VD$	C				
Coil Data	Coil Power Consumption	0.45W, 0.2	2W				
		Coil Voltage	Coil Resistanc 0.45W	ce (Ω)±10% 0.2W	Pull in Voltage (VDC)	Drop Out Voltage (VDC)	
	Coil Specification	5 VDC	55	125	75%	10%	
		12 VDC	320	720	75%	10%	
		24 VDC	1280	2880	75%	10%	
	Dioloctric Strongth	1000 VAC (Between Open Contacts)					
	Dielectric Strength	2500 VAC	C (Between	Coil & Co	ntacts)		
Concerci Data	Insulation Resistance	100 MΩ 500 VDC					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	-40 °C ~	+ 70°C				
Mounting Diagram		10.2 0.8 7.62	4-ø1.3	12.7	2.5	<i>1</i> _	
Application	Television, Stereo, Microwave, Air Conditioner, Refrigerator, Iron, Electrical Boiler, Satellite Receiver, etc.						

LP2N / LP4N

PANEL MOUNTING









	Contact Form/Material	2C, 4C / Ag Alloy					
Contact Rating	Contact Resistance	\leq 100m Ω @ 1A, 6 VE	C				
	Contact Capacity	2C:- 10A 250VAC / 30	30VDC 4C:- 5A 250VAC / 30VDC				
	Insulation Resistance	\geq 500m Ω , (500VDC)	\geq 500m Ω , (500VDC)				
Technical Specification	Dielectric Strength	\geq 1000VAC (Between Op	en Contact) / \geq 1500VAC (Betw	een Coil & Contact)			
	Operate, Release Time, Terminal Type	\leq 25ms, 25ms, PCB a	and Socket Mounting				
	Rated Coil Power	0.9W 1.2VA					
Coll Specification	Coil Voltage	5, 6, 12, 24, 48, 110VE	DC / 6, 12, 24, 48, 110, 220/	240VAC			
	Nominal Voltage VDC	Pull in Voltage VDC	Release Voltage VDC	Coil Resistance $\Omega \pm 10\%$			
	5	4.00	0.50	28			
	6	4.80	0.60	40			
	12	9.60	1.20	160			
	24	19.20	2.40	640			
	48	38.40	4.80	2560			
Coil Doto Chart	110	88.0	11.0	12100			
Coll Data Chart	Nominal Voltage VAC	Pull in Voltage VAC	Release Voltage VAC	Coil Resistance $\Omega \pm 10\%$			
	6	4.80	1.80	12			
	12	9.60	3.60	42			
	24	19.20	7.20	168			
	48	38.40	14.40	675			
	110	96.0	36.00	3500			
	220/240	176.00	66.00	14000/16500			
	20		10				



LK2PN / LK3PN

PANEL MOUNTING









	Contact Form/Material	2C, 3C / Ag Alloy	2C, 3C / Ag Alloy				
Contact Rating	Contact Resistance	\leq 100m Ω @1A, 6 VD	C				
	Contact Capacity	10A 250VAC / 30VDC					
	Insulation Resistance	\geq 500M Ω , (500VDC)	\geq 500M Ω , (500VDC)				
Technical Specification	Dielectric Strength	\geq 1000VAC (Between Ope	\geq 1000VAC (Between Open Contact) / \geq 1500VAC (Between Coil & Contact)				
	Operate & Release Time, Terminal Type	\leq 25ms, 25ms, Electro	on Tube Pin				
0.11.0	Rated Coil Power	1.5W, 2.5VA					
Coll Specification	Coil Voltage	6,12,24,48,100,110VD	C / 6,12,24,48,110/120,220	/240VAC			
	Nominal Voltage VDC	Pull in Voltage VDC	Release Voltage VDC	Coil Resistance $\Omega \pm 10\%$			
	6	4.80	0.60	24			
	12	9.60	1.20	96			
	24	19.20	2.40	384			
	48	38.40	4.80	1540			
	100	80.0	10.0	6660			
Coil Data Chart	110	88.0	11.0	8066			
Coll Data Chart	Nominal Voltage VAC	Pull in Voltage VAC	Release Voltage VAC	Coil Resistance $\Omega \pm 10\%$			
	6	4.80	1.80	4.6			
	12	9.60	3.60	20			
	24	19.20	7.20	80			
	48	38.40	14.40	320			
	110/120	88.0	36.00	1700			
	220/240	176.00	72.00	7400/8760			

Mounting Diagram











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Relay Type: ______ Terminal Type: Nil Solder, P Plug In Coil Voltage:- DC: 6 ~ 220V _____ AC: 6 ~ 380V

leon

LP11 - DC12V

	Dimension L * W * H (mm)	58.8 * 33 * 28					
Features	Terminal Type	Solder/Plu	Solder/Plug in				
	Weight	73 gm Approximately					
	Contact Form/Resistance	1C 100mΩ					
Contact Data	Contact Material	Ag Alloy	Ag Alloy				
	Contact Capacity	10A @ 25	10A @ 250VAC /28VDC				
	Coil Voltage (DC) & (AC)	$6\sim 220$ V	/DC 6~380 VAC				
Coil Data	Coil Power Consumption	DC: 2.0W	; AC 3.5VA				
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
		12 VDC	160	75%	10%		
		24 VDC	500	75%	10%		
		240 VAC	10000	80%	30%		
	Dielectric Strength	1200 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strength	1500 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Conoral Data	Insulation Resistance	500ΜΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 25 °C ~	+ 55°C				
	Bottom View		_P11A	LP11B			
Mounting Diagram	10 11						
Application	Vending Machine, Control Equipment, Cooking Appliances etc.						

LP12

PANEL MOUNTING





Relay Type: ______ Terminal Type: Nil Solder, P Plug In Coil Voltage:- DC: 6 ~ 220V _____ AC: 6 ~ 380V

leon

LP12 - DC12V

	Dimension L * W * H (mm)	58.8 * 33	58.8 * 33 * 28				
Features	Terminal Type	Solder/Plu	Solder/Plug in				
	Weight	80 gm Ap	80 gm Approximately				
	Contact Form/Resistance	2C	2C 100mΩ				
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	10A @ 25	50VAC /28VDC				
	Coil Voltage (DC) & (AC)	6~220 V	/DC 6~380 VAC				
Coil Data	Coil Power Consumption	DC: 2.0W	; AC 3.5VA				
		Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)		
	Coil Specification	12 VDC	160	75%	10%		
		24 VDC	500	75%	10%		
		240 VAC	10000	80%	30%		
	Dielectric Strength	1200 VAC @ 50 Hz / Min (Between Open Contacts)					
	Dielectric Strength	1500 VAC	C @ 50 Hz / Min (Betw	veen Coil & Conta	acts)		
Caparal Data	Insulation Resistance	500ΜΩ					
General Data	Electrical Life	1 x 10 ⁵					
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 25 °C ~	+ 55°C				
Mounting Diagram	Bottom View 1 3 6 9 10 11	LP12A LP12B					
Application	Vending Machine, Control Equipment, Cooking Appliances etc.						

LP13

PANEL MOUNTING





Relay Type: ______ Terminal Type: Nil Solder, P Plug In Coil Voltage:- DC: 6 ~ 220V _____ AC: 6 ~ 380V

leon

LP13 - DC12V

	Dimension L * W * H (mm)	58.8 * 33	* 28			
Features	Terminal Type	Solder/Plu	ug in			
	Weight	87 gm Ap	proximately			
	Contact Form/Resistance	3C		100mΩ max @ 1A,	6VDC	
Contact Data	Contact Material	Ag Alloy	Ag Alloy			
	Contact Capacity	10A @ 25	10A @ 250VAC /28VDC			
	Coil Voltage (DC) & (AC)	6~220 V	/DC 6~380 VAC			
Coil Data	Coil Power Consumption	DC: 2.0W	; AC 3.5VA			
	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (VDC)	Drop Out Voltage (VDC)	
		12 VDC	160	75%	10%	
		24 VDC	500	75%	10%	
		240 VAC	10000	80%	30%	
	Distantia Observatio	1200 VAC @ 50 Hz / Min (Between Open Contacts)				
	Dielectric Strength	1500 VAC	C @ 50 Hz / Min (Betw	veen Coil & Conta	acts)	
Conorrol Data	Insulation Resistance	500ΜΩ				
General Data	Electrical Life	1 x 10 ⁵				
	Mechanical Life	1 x 10 ⁷				
	Operating Temperature	- 25 °C ~	+ 55°C			
	Bottom View	l	LP13A	LP13B		
Mounting Diagram	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(***** ******		
Application	Vending Machine, Control Equipment, Cooking Appliances etc.					



	P30FC - 1C - 12VI	C
Relay Type:		
Contact Form: 1C/2C		
Coil Voltage:- 6 ~ 240VDC -		
$6 \sim 240 \text{VAC}$		

leon

	Dimension L * W * H (mm)	52 * 47 *	40				
Features	Terminal Type	Solder					
	Weight	110 gm A	pproximately				
	Contact Form	1C/ 2C					
Contact Data	Contact Material	Ag Alloy	Ag Alloy				
	Contact Capacity	1C: 30A/2	250VAC, 30A/28VDC	2C: 25A/250VA	C, 25A/28VDC		
Coil Data	Coil Voltage (DC)	6 - 240 VDC					
	Coil Voltage (AC)	6 - 240 VAC					
	Coil Power Consumption	1C: 1.2W 2C: 1.6 W					
	Coil Specification	Coil Voltage	Coil Resistance (Ohm) ±10%	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	1C: 120 2C: 90	80%	5%		
		24 VDC	1C: 450 2C: 350	80%	5%		
		240 VAC	1C: 5900 2C: 15000	85%	30%		
	Dioloctric Strongth	1500 VAC @ 50 Hz / Min (Between Contacts)					
	Dielectric Strength	2000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
General Data	Insulation Resistance	500ΜΩ					
	Electrical Life	1 x 10 ⁵ (0	On Rated Resistive Lo	ad)			
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim	+ 55°C				
		Stimes	4-43				

Mounting Diagram





Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.

P38FC



	P38FC - 3	C - 240VAC
Relay Type:		
Contact Form: 3C		
Coil Voltage:- 6 ~ 220VDC _		
$6\sim 380 \text{VAC}$		

leor

	Dimension L * W * H (mm)	67 * 42 * 5	50				
Features	Terminal Type	Solder					
	Weight	130 gm Ap	130 gm Approximately				
	Contact Form	3C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	40A/250VA	AC, 40A/28VDC				
	Coil Voltage (DC)	6 - 220 VD	C				
Coil Data	Coil Voltage (AC)	6 - 380 VAC					
	Coil Power Consumption	2.5W, 3.8 VA					
	Coil Specification	Coil Voltage	Coil Resistance (Ohm) ±10%	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	58	80%	5%		
		24 VDC	210	80%	5%		
		240 VAC	6500	85%	30%		
	Dialactria Strangth	1500 VAC @ 50 Hz / Min (Between Contacts)					
	Dielectric Strength	2500 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Ganaral Data	Insulation Resistance	1000ΜΩ					
	Electrical Life	5 x 10 ⁴ (On Rated Resistive Lo	oad)			
	Mechanical Life	1 x 10 ⁶					
	Operating Temperature	- 40 °C ~	+ 55°C				
		<u></u>					





9





linverter, Voltage stabilizer, High Power Application, Domestic Application, HVAC etc.





	P40FC - 10	C - 24VI	DC
Relay Type:			
Contact Form: 1C/2C			
Coil Voltage:- 6 ~ 240VDC - 6 ~ 240VAC			

	Dimension L * W * H (mm)	74 * 47 * 47					
Features	Terminal Type	Solder ,Sc	rew Terminal				
	Weight	130 gm Ap	130 gm Approximately				
	Contact Form	1C/2C	1C/ 2C				
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	1C: 40A/2	50VAC, 40A/28VDC	2C: 40A/250VA	C, 40A/28VDC		
	Coil Voltage (DC)	6 - 240 VD	C				
	Coil Voltage (AC)	6 - 240 VA	C				
	Coil Power Consumption	1C: 1.8W		2C: 2.4 W			
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ohm) ±10%	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	90	80%	5%		
		24 VDC	340	80%	5%		
		240 VAC	5800	85%	30%		
	Dielectric Strength	1500 VAC	@ 50 Hz / Min (Betwe	een Contacts)			
		2000 VAC	@ 50 Hz / Min (Betw	reen Coil & Conta	cts)		
General Data	Insulation Resistance	500ΜΩ					
deneral Data	Electrical Life	1 x 10 ⁵ (C	On Rated Resistive Lo	ad)			
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim	+ 55°C				
Mounting Diagram				4-03			

Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.

P40FFC





	Dimension L * W * H (mm)	59 x 50 x 52		
Features	Terminal Type	Screw Type		
	Weight			
	Contact Form & Resistance	1C / 1A		
Contact Data	Contact Resistamce	100mΩ @DC24V; 1A		
	Contact Capacity	1C : 28VDC / 40A ; 250VAC / 40A		
	Coil Voltage (DC) & (AC)	6 - 220 V & 6 - 220 V		
Coil Data	Coil Power Consumption	DC:- 1C: ≤1.8 W / AC:- 1C: ≤1.5 VA		
	Pick Up & Drop Out Voltage	${\leq}90\%$ & DC ${\geq}5\%$, AC ${\leq}30\%$		
	Dielectric Strength	1500 VAC @ 50 Hz / Min (Between Contacts)		
		2000 VAC @ 50 Hz / Min (Between Coil & Contacts)		
Conoral Data	Insulation Resistance	500ΜΩ		
delleral Data	Electrical Life	5 x 10 ⁴		
	Mechanical Life	1 x 10 ⁷		
	Operating Temperature	-40 °C $\sim +55$ °C		
Mounting Diagram	2-04 M M			
Application	Inverter, Voltage stabilizer, Hig	gh Power Application, Phase Changeovers, Motor Controller,		

Street Lighting,etc.

POWER RELAY



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041/00



	P03FU - 1U - 24VDU
Relay Type: P63/P60 ———	
Contact Form: 1C/2C	
Coil Voltage:- 6 ~ 240VDC	
$6\sim 240 \text{VAC}$	

	Dimension L * W * H (mm)	P63FC: 70	P63FC: 70 * 47 * 47 P60FC: 80 * 47 * 48				
Features	Terminal Type	Screw Ter	minal				
	Weight	160 gm A	pproximately				
	Contact Form	1C/ 2C					
Contact Data	Contact Material	Ag Alloy	Ag Alloy				
	Contact Capacity	1C: 63A/2	1C: 63A/250VAC, 63A/28VDC 2C: 60A/250VAC, 60A/28VDC				
	Coil Voltage (DC)	6 - 240 V					
	Coil Voltage (AC)	6 - 240 V	6 - 240 V				
	Coil Power Consumption	1C: 2.2W		2C: 3.6 W			
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	65	80%	5%		
		24 VDC	252	80%	5%		
		240 VAC	5200	85%	30%		
		1500 VAC	@ 50 Hz / Min (Betw	een Contacts)			
	Dielectric Strength	2000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
Osnaval Data	Insulation Resistance	500MΩ					
General Data	Electrical Life	1 x 10⁵	2C:1 x 104	(On Rated Resis	tive Load)		
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim	+ 55°C				
Mounting Diagram		9					

Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.

P80FC

POWER RELAY





	P80FC - 10	C - 12VI	DC
Relay Type:			
Contact Form: 1C			
Coil Voltage:- 6 \sim 240VDC $-$ 6 \sim 240VAC			

	Dimension L * W * H (mm)	72 * 48 * 80					
Features	Terminal Type	Screw Terminal					
	Weight	240 gm A	240 gm Approximately				
	Contact Form	1C					
Contact Data	Contact Material	Ag Alloy					
	Contact Capacity	1C: 80A/2	250VAC, 80A/28VDC				
	Coil Voltage (DC)	6 - 240 VE	C				
	Coil Voltage (AC)	6 - 240 VA	AC				
	Coil Power Consumption	1C: 3.6W					
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	50	80%	5%		
		24 VDC	180	80%	5%		
		240 VAC	6130	85%	30%		
	Dioloctric Strongth	1500 VAC @ 50 Hz / Min (Between Contacts)					
	Dielectric Strength	2000 VAC @ 50 Hz / Min (Between Coil & Contacts)					
General Data	Insulation Resistance	500MΩ					
	Electrical Life	5 x 10 ⁴	(On Rate	d Resistive Load)			
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 $^\circ C \sim$	+ 55°C				
	60						

Mounting Diagram



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Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.

P100FC



	P100FC - 1	C - 240VAC
Relay Type:		
Contact Form: 1C		
Coil Voltage:- 6 ~ 240VDC		
$6\sim 240VAC$		

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	Dimension L * W * H (mm)	72 * 48 * 80					
Features	Terminal Type	Screw Terminal					
	Weight	240 gm A	240 gm Approximately				
	Contact Form	1C					
Contact Data	Contact Material	Ag Alloy	Ag Alloy				
	Contact Capacity	1C: 150A	/250VAC, 150A/28VDC)			
	Coil Voltage (DC)	6 - 240 VE	C				
	Coil Voltage (AC)	6 - 240 VA	AC				
	Coil Power Consumption	1C: 3.6W					
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (V)	Drop Out Voltage (V)		
		12 VDC	60	80%	5%		
		24 VDC	250	80%	5%		
		240 VAC	6150	85%	30%		
	Dioloctric Strongth	1500 VAC @ 50 Hz, Min (Between Contacts)					
	Dielectric Strength	2000 VAC @ 50 Hz, Min (Between Coil & Contacts)					
General Data	Insulation Resistance	500MΩ					
	Electrical Life	5 x 10 ⁴	(On Rate	d Resistive Load)			
	Mechanical Life	1 x 10 ⁷					
	Operating Temperature	- 40 °C \sim + 55°C					
	60						

Mounting Diagram



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Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.

P150FC

POWER RELAY





	P150FC - 1C - 12VI	DC
Relay Type:		
Contact Form: 1C		
Coil Voltage:- 6 ~ 240VDC		
$6 \sim 240 \text{VAC}$		

	Dimension L * W * H (mm)	72 * 48 * 100				
Features	Terminal Type	Screw Terminal				
	Weight	240 gm A	pproximately			
Contact Form		1C				
Contact Data	Contact Material	Ag Alloy				
	Contact Capacity	1C: 150A	/250VAC, 150A/28VD0	2		
	Coil Voltage (DC)	6 - 240 VE	C			
	Coil Voltage (AC)	6 - 240 VA	AC			
	Coil Power Consumption	1C: 3.6W				
Coil Data	Coil Specification	Coil Voltage	Coil Resistance (Ω) $\pm 10\%$	Pull in Voltage (V)	Drop Out Voltage (V)	
		12 VDC	40	80%	5%	
		24 VDC	160	80%	5%	
		240 VAC	6150	85%	30%	
	Dielectric Strength	1500 VAC @ 50 Hz / Min (Between Contacts)				
	Dielectric Strength	2000 VAC @ 50 Hz / Min (Between Coil & Contacts)				
Ganaral Data	Insulation Resistance	500MΩ				
	Electrical Life	5 x 10 ⁴	(On Rated	Resistive Load)		
	Mechanical Life	1 x 10 ⁷				
	Operating Temperature	- 40 °C \sim + 55°C				
	60	2011				

Mounting Diagram



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Application

Inverter, Voltage stabilizer, High Power Application, Phase Changeovers, Motor Controller, Street Lighting, HVAC etc.





	JQX-62F - 1C -	DC12V
Relay Type:		
Contact Form:- 1C		
Coil Voltage:- 6 \sim 110 VDC 6 \sim 240 VAC		

	Contact Form	1C	1C	
Contact Rating	Contact Resistance	30mΩ(1A, 6VDC)		
	Contact Capacity	80A @ 250VAC, 10	0A @ 250VAC	
	Insulation Resistance	1000mΩ, 500VAC		
General Specification	Dielectric Strength	BCC 2500 VAC / B0	DC 1200 VAC	
opoonioution	Operate/Release Time	25ms/25ms		
Out Dallas	Nominal Coil Power	DC 2.0W AC 2.5VA		
Coll Rating	Coil Voltage	6~110VDC, 6~2	240VAC	
	Nominal Voltage VDC	Pull in Voltage VDC	Release Voltage VDC	Coil Resistance $\Omega \pm 10\%$
	6	4.20	0.60	18
	12	8.40	1.20	70
	24	16.8	2.40	290
	48	33.60	4.80	1152
	60	42.0	6.00	2800
Cail Data Chart	110	88.0	11.0	9650
	Nominal Voltage VAC	Pull in Voltage VAC	Release Voltage VAC	Coil Resistance $\Omega \pm 10\%$
	6	4.80	1.80	9
	12	9.60	3.60	36
	24	19.20	7.20	144
	48	38.40	14.40	576
	110	88.0	36.00	3500
	220/240	176.00	72.00	12000/14400

Mounting Diagram









JQX62F-2C

POWER RELAY





	JQX-62F - 2C - DC12V
Relay Type:	
Contact Form:- 2C	
Coil Voltage:- 6 \sim 110 VDC 6 \sim 240 VAC	

	Contact Form	2C				
Contact Rating	Contact Resistance	30mΩ(1A, 6VDC)				
	Contact Capacity	80A @ 250VAC,120	80A @ 250VAC,120A @ 250VAC			
	Insulation Resistance	1000MΩ, 500VDC				
General Specification	Dielectric Strength	BCC 2500 VAC / BOC 1200 VAC				
opecification	Operate/Release Time	25ms/25ms				
	Nominal Coil Power	DC 2.0W AC 2.5VA				
Coil Rating	Coil Voltage	6~110VDC, 6~2	240VAC			
	Nominal Voltage VDC	Pull in Voltage VDC	Release Voltage VDC	Coil Resistance $\Omega \pm 10\%$		
	6	4.20	0.60	18		
	12	8.40	1.20	70		
	24	16.8	2.40	290		
	48	33.60	4.80	1152		
	60	42.0	6.00	2800		
Cail Data Chart	110	88.0	11.0	9650		
	Nominal Voltage VAC	Pull in Voltage VAC	Release Voltage VAC	Coil Resistance $\Omega \pm 10\%$		
	6	4.80	1.80	9		
	12	9.60	3.60	36		
	24	19.20	7.20	144		
	48	38.40	14.40	576		
	110	88.0	36.00	3500		
	220/240	176.00	72.00	12000/14400		
			의 이 	<u></u>		







	LDA - * - *
Series:	
Output Voltage: 330VAC	
Ampere Rating: 10A \sim 75A $-$	

Model : LDA - Single Phase SSR				
	Dimension L * W * H (mm)	58 * 45 * 31.5		
Load Voltage	Terminal Type	Chassis Mounting		
	Weight	120 gm Approximately		
	Input	3 ~ 32 VDC		
Input/Output	Output	330VAC ,480VAC		
	Output on state RMS current	10A ~ 75A		
	Drop out Voltage I/P	1VDC		
	Pick up Time	8 mSec		
	Release Time	8 mSec		
	Operating Frequency	47 ~ 70 Hz		
Caparal Data	Operating Temperature	$-30 \sim +75 \ ^{\circ}\text{C}$		
General Data	Isolation Voltage I/P to O/P	4000Vrms		
	Peak one cycle surge Current	100A		
	Minimum Trigger Current	10 mA max.		
	Output Leakage Current	330VAC . 7 mA, 480VAC . 14mA		
	Dielectric Strength	2500VAC @ 50 Hz/min		
Mounting Diagram				
Application	Automatic Vending Machine, Lam	p Control, Injection Molding Machine, FA equipment etc.		







LAA

	LAA - ^ - ^
Series:	
Output Voltage: 330VAC	
Ampere Rating: $10A \sim 75A$	

Model : LAA - Single Phase SSR				
	Dimension L * W * H (mm)	58 * 45 * 31.5		
Load Voltage	Terminal Type	Chassis Mounting		
	Weight	120 gm Approximately		
	Input	50 ~ 480 VAC		
Input/Output	Output	330VAC ,480VAC		
	Output on state RMS current	10A ~ 75A		
	Drop out Voltage I/P	1VDC		
	Pick up Time	8 mSec		
	Release Time	8 mSec		
	Operating Frequency	47 ~ 70 Hz		
	Operating Temperature	-30 ~ +75 °C		
General Data	Isolation Voltage I/P to O/P	4000Vrms		
	Peak one cycle surge Current	100A		
	Minimum Trigger Current	10 mA max.		
	Output Leakage Current	330VAC - 7 mA, 480VAC - 14mA		
	Dielectric Strength	2500VAC @ 50 Hz/min		
Mounting Diagram				
Application	Automatic Vending Machine, Lam	p Control, Injection Molding Machine, FA equipment etc.		

LDA3/LAA3

SOLID STATE RELAY





A Wide Range of models with 10 to 120A Output current up to 1200VAC output Voltages

- All models with the same universal standard size
- Operation indicator(red LED) enables monitoring operation
- Protective cover for greater safety
- Built-in RC Snubber
- Fast response and robust
- Zero cross function
- No noise during the operation
- Chassis mount

	Specifications (DC to AC) - Three Phase SSR
Load Voltage	380V / 480V / 1200V
Control Voltage	3-32V DC
Control Current	10-68mA
On Voltage Drop	\leq 1.8V
Off-leakage Current	\leq 10mA
On & Off Time	\leq 10mS
Dielectric Strength	2500V AC
nsulation Resistance	1000MΩ / 2500VDC
Ambient Temperature	- 30 °C ~ + 75°C
Mounting	Chassis mount
Indicator	LED
Weight	300g
	Specifications (AC to AC) - Three Phase SSR
Load Voltage	380V / 480V / 660V / 1200V
Control Voltage	70~280VAC
Control Current	\leq 12mA
On Voltage Drop	\leq 1.8V
Off-leakage Current	\leq 10mA
On & Off Time	\leq 10mS
Dielectric Strength	2500V AC
nsulation Resistance	1000MΩ / 2500VDC
Ambient Temperature	- 30 °C ~ + 75°C
Mounting	Chassis mount
Indicator	LED
147 1 1 1	450~

Wiring and Dimensions











Specifications	Rate Voltage	300VAC	
	Rated Current	10A	
	Insulation Voltage	≥3KV	
	Socket Material	Flame retardance-PA46-S250F6(V1/V0)	
	Contacts Spring Material	QSn6.5-0.1	
	Dielectric Strength	2000VAC	
	Ambient Temperature	-40~+85 degree C	
	Relay Model	Metal Clip	
	MI-1P	~ 1	
	EMI-1P		
Matched Relay	LMI1		
	58/59		
	HF141FF		
Dimensions		13.5 9.3 9.3	

14F-2Z-A1





Specifications	Rate Voltage	300VAC	
	Rated Current	10A	
	Insulation Voltage	≥3KV	
	Socket Material	Flame retardance-PA46-S250F6(V1/V0)	
	Contacts Spring Material	QSn6.5-0.1	
	Dielectric Strength 2000VAC		
	Ambient Temperature	-40~+85 degree C	
	Relay Model	Metal Clip	
	MI-2P	$\sim \sim$	
	EMI-2P		
Matched Relay	LMI2		
	58/59		
	HF140FF		
Dimensions			
	₽ ₩ ₽ .₽		

PY08 / PY08 - 0





Specifications	Rated Load		10A / 300VAC
	Dielestrie Otresseth	Coil / Contact 4000VAC	
	Dielectric Strengtri	Between Contacts	2000VAC
	Relay Model		Metal Clip
	RE-2P	K-35T	
Matched Dates	LP2N		
Matched Relay	MY 2		
	55.02		
	HH52P		
	PY08: Socket Terminal & PY08 - 0: PCB Terminal		
Dimensions			





	Rated Load		10A / 300VAC
Specifications	Dielectric Strength	Coil / Contact	4000VAC
	Dielectric Strength	Between Contacts	2000VAC
	Relay Model		Metal Clip
	RET-1P		K-35T
Matchod Polov	RET-2P		
matcheu nelay			
	PT08: Socket Terminal & PT0	08 - 0: PCB Terminal	
Dimensions			7.2 6 4.6

PY14 / PY14-0





	Rated Load		10A / 300VAC	
Specifications	Dielectric Strength	Coil / Contact	4000VAC	
		Between Contacts	2000VAC	
	Relay Model		Metal Clip	
	RE-4P			
Metched Deley	LP4N		K DET	
Malched Relay	MY 4		K-351	
	55.04			
	HH54P			
	Py14: Socket Terminal			
Dimensions	Py14 - 0: PCB Terminal			

PYF08AE





	Rated Load	7A / 300VAC	
Specifications	Dielectric Strength	Coil / Contact	2000VAC
		Between Contacts	2200VAC
	External Connection Wire	20-16AWG	
	Screw Torque	0.7Nm	
	Terminal Protection Degree	IP 20	
	Relay Model	Metal Clip	Din Clip
	RE2P	K-35S	÷
Motobod Bolov	LP2N		
matcheu nelay	MY 2		
	55.02		
	57.02		
Dimensione			

Dimensions







PYF14AE





Rated Load	7A / 300VAC	
Dielectric Strength	Coil / Contact	2000VAC
	Between Contacts	2000VAC
External Connection Wire	20-16AWG	
Screw Torque	0.7Nm	
Terminal Protection Degree	IP 20	
Relay Model	Metal Clip	Din Clip
RE4P	K-35S	
LP4N		
MY 4		
55.04		
57.04		
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Rated Load Dielectric Strength External Connection Wire Screw Torque Terminal Protection Degree Relay Model RE4P LP4N 55.04 55.04 57.04	Rated Load7A / 300VACPaleetric StrengthCoil / ContactExternal Connection Wire20-16AWGScrew Torque0.7NmTerminal Protection DegreeIP 20Relay ModelMetal ClipRE4PK-35SLP4NK-35S55.0457.04

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	Rated Load	10A / 300VAC	
0	Dielectric Strength	Coil / Contact	2000VAC
		Between Contacts	2000VAC
Specifications	External Connection Wire	20-14AWG	
	Screw Torque	0.8Nm	
	Terminal Protection Degree	IP 20	
	Relay Model	Metal Clip	Din Clip
	RK2P	K-53	
Metched Deley	LK2PN		
Matched Kelay	MK2P MK2PK		
	JQX10-2Z		₹ 35
	60.2 70.2		

Dimensions











Specifications	Rated Load	10A / 300VAC	
	Dielectric Strength	Coil / Contact	2000VAC
		Between Contacts	2000VAC
	External Connection Wire	20-14AWG	
	Screw Torque	0.8Nm	
	Terminal Protection Degree	IP 20	
	Relay Model	Metal Clip	Din Clip
	RK3P	K-53	
Matched Polov	LK3PN		
Malcheu nelay	МКЗР МКЗРК		
	JQX10-3Z		→ 35
	60.3 70.3		

Dimensions







PF083AE





	Rated Load	10A / 300VAC		
Specifications	Dielectric Strength	Coil / Contact	2000VAC	
		Between Contacts	2000VAC	
	External Connection Wire	20-16AWG		
	Screw Torque	0.8Nm		
	Terminal Protection Degree	IP 20		
	Relay Model	Metal Clip	Din Clip	
	RK2P		+	
Motobod Bolov	LK2PN			
Malcheu nelay	MK2P, MK2PK	K-53		
	JQX10-2Z		₹ 35	
	60.2, 70.2			
Dimensions				



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