

NEPEAN
Power

Miniature Intermediate Power Relay

AVAILABLE FROM
NEPEAN ELECTRONICS



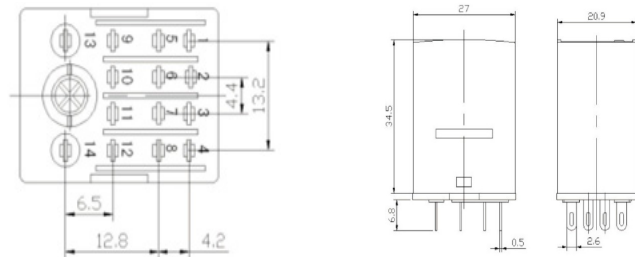
NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The NEPEAN Power Miniature Intermediate Power Relays are 4 pole change over contact plug-in relays for low energy switching applications. It is widely used in remote control, telemetry, communication, automatic control, mechatronics and power electronic equipment.

Features

- High quality electronic circuit and integrated components with reliable quality
- Small volume, light weight, high sensitivity, long service life
- Led indicator, test button and dual polarity
- Gold plated contact available
- A switching capacity of 1.5kV dielectric strength between coil and contacts

Outline Dimensions



Coil Parameters

Rated Voltage DC(V)	Rated Current $\pm 10\%$ (mA)	Coil Resistance $\pm 10\%$ (Ω)	Maximum Continuous Applied Voltage (v)	Pull In Voltage (Max)	Release Voltage (Min)	Rated Power (w)
12	75	60	Rated voltage x 110%	Rated voltage x $\leq 75\%$	Rated voltage x $\geq 10\%$	0.9
24	37.5	640				
48	18.7	2560				

Rated Voltage AC(V)	Rated Current $\pm 10\%$ (mA)	Coil Resistance $\pm 10\%$ (Ω)	Maximum Continuous Applied Voltage (v)	Pull In Voltage (Max)	Release Voltage (Min)	Rated Power (w)
110	10.9	3529	Rated voltage x 110%	Rated voltage x $\leq 80\%$	Rated voltage x $\geq 30\%$	1.2
240	5.4	14116				

Ordering Information

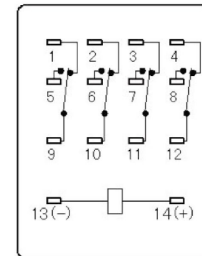
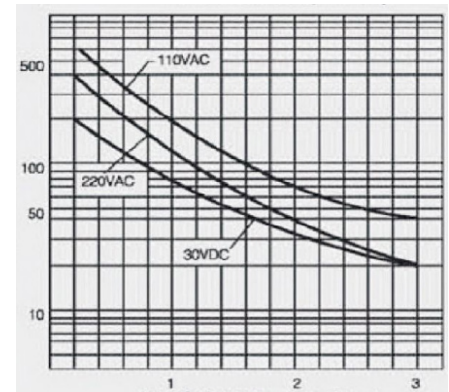
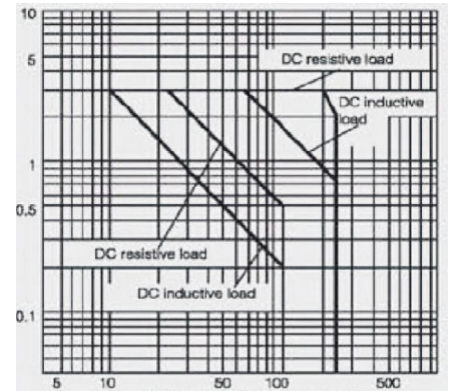
Part Number	Description
LM4C-BL-12VDC	Relay 4xC/O 12V DC, Dual Polarity LED, Mech test button
LM4C-BL-24VDC	Relay 4xC/O 24V DC, Dual Polarity LED, Mech test button
LM4C-BL-48VDC	Relay 4xC/O 48V DC, Dual Polarity LED, Mech test button
LM4C-BL-AC110V	Relay 4xC/O 110V AC, Mech test button
LM4C-BL-AC240V	Relay 4xC/O 240V AC, Mech test button
LMS05-14AE	Base for LM4C-BL relay

Miniature Intermediate Power Relay

Characteristics

Dimension	27.2x21x35mm	
Contact	Contact form	54P 4Z
	Rated load	5A
	Max switching voltage	240VAC/28VDC
	Contact resistance	≤100mΩ
	Material	Silver alloy
	Electrical life	≥10 ⁵
	Mechanical life	≥10 ⁷
(23°C) Maximum allowed voltage	DC: ≤75% x rated voltage AC: ≤80% x rated voltage	
(23°C) Release voltage	DC: ≤10% x rated voltage DC: ≥30% x rated voltage	
(23°C) Maximum allowed voltage	110% x rated voltage	
Nominal voltage	(DC)	DC: 6V~220V
	(AC)	AC: 6V~380V
Coil power	(DC)	DC: 0.9W
	(AC)	AC: 1.2VA
Operate time	≤20ms	
Release time	≤20ms	
Dielectric strength	Between contacts	1000VAC/1min (leakage current x 1mA)
	Between contacts (different pole)	1000VAC/1min (leakage current x 1mA)
	Between contacts and coil	1500VAC/1min (leakage current x 1mA)
Insulation resistance	≥1000m (5000VDC)	
Ambient temperature	-25~+55°C	
Ambient humidity	45%~75%RH	
Atmospheric pressure	86~106KPa	
Resistance stamping	10G (sine wave half pulse 11ms)	
Vibration resistance	10~55Hz double amplitude 1.5mm	
Install model	Socket type	
Weight	35g	

Characteristics Curves



Socket

Part Number	LMS05-14AE
Rated Voltage	250VAC ~ 300VAC
Rated Current	12A
Ambient Temperature	-40 ~ 75°C
Dielectric Strength	2500V/S
Material	Flame-retardant PA66+GF(V1/V0)
Clip Spring Material	QSn6.5-0.1
Installation	Standard rail mounting/screw
Application Relay	LM4C/LM4C-L/LM4C-BL

