



町洋企業股份有限公司

DINKLE ENTERPRISE CO.,LTD.

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町洋機電(中國)有限公司

DINKLE ELECTRIC MACHINERY(CHINA) CO.,LTD.

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LIYANG ELECTRIC MACHINERY(DONGGUAN) CO., LTD.

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町洋電氣貿易(上海)有限公司

DINKLE ELECTRIC TRADING (SHANGHAI) CO.,LTD.

上海市徐匯區漕溪北路18號上實大厦16層A室 Room A,Floor 16,No.18 North Caoxi Road,Shanghai City TEL:+86-21-6487-0636 6427-3157 FAX:+86-21-3356-2500 E-mail:service@dinkle.com.tw Web site: http://www.dinkle.com

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町洋義大利分公司

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Industrial Relay





2018 / Aug. XC-11_2

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Dinkle, Delight through connections!!

Dinkle is one of the global major manufacturers of terminal blocks and committed to meet the highest application requirements of automation industry.

We continuously improve our productivity and competitive advantages, while keeping pace with the new production techniques and the global industrial trend. We work with trading offices in over 40 countries providing products and technical support serices.

The business was established in Taiwan on July 22nd, 1983, it started from manufacturing barrier type terminal blocks. The first production facilities in China were set up in 1995, with 15 sales offices in Greater China region. Dinkle facilities include an R&D center for terminal blocks in Jiangsu, two OEM product development centers in KunShan and DongGuan city, an R&D center for electronics in Taipei, a CNAS certified laboratory in Jiangus and two main production facilities in Jiangus and Guangdong.

Terminal blocks are widely used in main industrial applications including Production Automation, Process Automation, Power Automation, Railway Transportation, New Energy and Equipment Manufacturing. All od our production facilities granted ISO 9001 quality control system certification and ISO 14001 environmental management system certification, and Dinle's products have safety certifications include UL, CUL, CSA, VDE, GB. Allproducts and materials used meet EU environmental policy of RoHS Directive and REACH regulation.

With more than 30 years of manufacturing experiences, Dinkle team is here to help to make your business successful. We provide reliable products and offer professional technical support and practical example to illustrate our solutions which are able to assist youe business of improving production automation level and technical standars. No matter what your requirement is, you will out the ideal solution form Dinkle.



RER Series Industrial Relay

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10–11				
Type Description	RER-M2C-D24 Coil / 24VDC,Contact / 2C / 5A	RER-M2C-A120 Coil / 120VAC, Contact / 2C / 5A	RER-M2C-A230 Coil / 230VAC,Contact / 2C / 5A	
12–13				
Type Description	RER-M4C-D24 Coil / 24VDC, Contact / 4C / 3A	RER-M4C-A120 Coil / 120VAC, Contact / 4C / 3A	RER-M4C-A230 Coil / 230VAC, Contact / 4C / 3A	
14–15	COII/24VBC, COIIIaCt/4C/3A	Coll 120 VAC, Collect 14C 73A	Coll / 250VAC, Colliact / 4C / 3A	
Type Description	RER-S2C-D24 Coil / 24VDC, Contact / 2C / 10A	RER-S2C-A120 Coil / 120VAC, Contact / 2C / 10A	RER-S2C-A230 Coil / 230VAC, Contact / 2C / 10A	
16–17				
Type Description	RER-S4C-D24 Coil / 24VDC, Contact / 4C / 5A	RER-S4C-A120 Coil / 120VAC, Contact / 4C / 5A	RER-S4C-A230 Coil / 230VAC, Contact / 4C / 5A	
18–19	THE STATE OF THE S	**************************************		erecci di di
Type Description	0149-10-08A RER-M2 / RER-S2	0149-10-14A RER-M4 / RER-S4	0149-13-08E RER-M2 / RER-S2	0149-13-14E RER-M4 / RER-S4
20–21				
Type Description	RER-L2C-D24 Coil / 24VDC,Contact / 2C / 10A	RER-L2C-A120 Coil / 120VAC, Contact / 2C / 10A	RER-L2C-A230 Coil / 230VAC,Contact / 2C / 10A	
22–23	SOLIT ENTO, COLLECT EST TON	SUIT ESTIGNO, CONDUCT ZOT TON	Suit Edition, Contact 7207 TOA	
Type Description	RER-L4C-D24 Coil / 24VDC, Contact / 4C / 10A	RER-L4C-A120 Coil / 120VAC, Contact / 4C / 10A	RER-L4C-A230 Coil / 230VAC, Contact / 4C / 10A	
24	D Tribut	0000		
Type Description	0149-20-08A RER-L2	0149-20-14A RER-L4		

RER Industrial Relay (Compact Type)

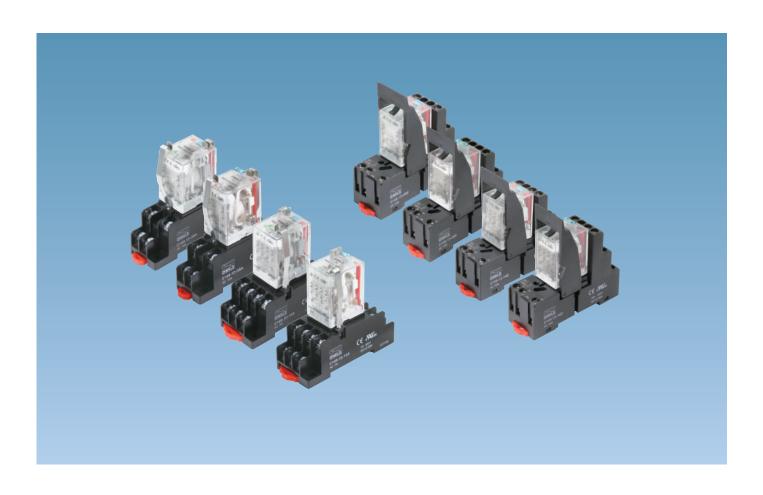
28–29				
Type	RER-J1C-D24	RER-J1C-A120	RER-J1C-A230	
Description	Coil / 24VDC, Contact / 1C / 10A	Coil / 120VAC, Contact / 1C / 10A	Coil / 230VAC, Contact / 1C / 10A	
30–31				
Type	RER-J2C-D24	RER-J2C-A120	RER-J2C-A230	
Description	Coil / 24VDC, Contact / 2C / 5A	Coil / 120VAC,Contact / 2C / 5A	Coil / 230VAC,Contact / 2C / 5A	
32–33				
Type	0149-30-05A	0149-30-08A	0149-33-05E	0149-33-08E
Description	RER-J1C	RER-J2C	RER-J1C	RER-J2C

Accessories

35			
Type Description	0149-11ES 0149-10-08A	0149-11 0149-10-14A	0149-21 0149-20-08A、0149-20-14A
35			
Type Description	0149-14 0149-13-08E、0149-13-14E	0149-32 0149-33-05E、0149-33-08E、	
36	STATES OF THE STATES OF T	Printed and Control of the Control o	mang mangan manangg m
Type Description	0149-36 0149-13-08E、0149-13-14E、 0149-33-05E、0149-33-08E	0149-35-24 0149-13-08E、0149-13-14E、 0149-33-05E、0149-33-08E	0149-35-240 0149-13-08E、0149-13-14E、 0149-33-05E、0149-33-08E

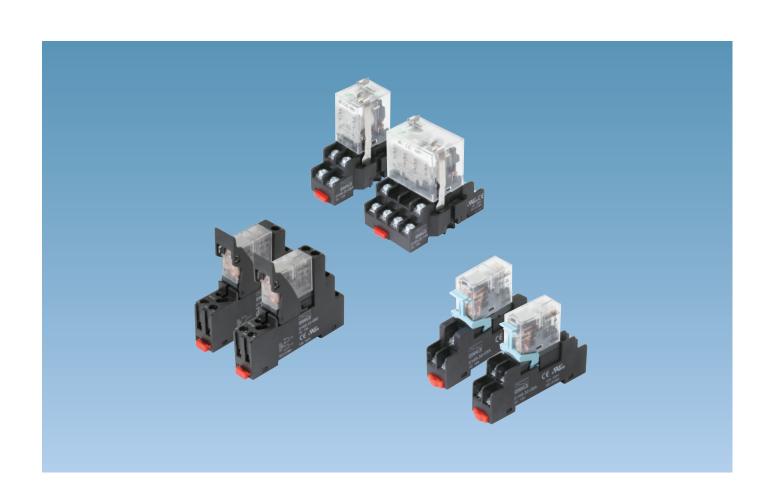
The List of Kits

Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 2C / 5A	24VDC 120VAC 230VAC	RER-M2C-D24 (A01) RER-M2C-A120 (A01) RER-M2C-A230 (A01)	10 10 10	Contact / 2C / 5A	24VDC 120VAC 230VAC	RER-M2C-D24 (A03) RER-M2C-A120 (A03) RER-M2C-A230 (A03)	10 10 10
Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 2C / 10A	24VDC 120VAC 230VAC	RER-S2C-D24 (A01) RER-S2C-A120 (A01) RER-S2C-A230 (A01)	10 10 10	Contact / 2C / 10A	24VDC 120VAC 230VAC	RER-S2C-D24 (A03) RER-S2C-A120 (A03) RER-S2C-A230 (A03)	10 10 10
Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 4C / 3A	24VDC 120VAC 230VAC	RER-M4C-D24 (A02) RER-M4C-A120 (A02) RER-M4C-A230 (A02)	10 10 10	Contact / 4C / 3A	24VDC 120VAC 230VAC	RER-M4C-D24 (A04) RER-M4C-A120 (A04) RER-M4C-A230 (A04)	10 10 10
Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 4C / 5A	24VDC 120VAC 230VAC	RER-S4C-D24 (A02) RER-S4C-A120 (A02) RER-S4C-A230 (A02)	10 10 10	Contact / 4C / 5A	24VDC 120VAC 230VAC	RER-S4C-D24 (A04) RER-S4C-A120 (A04) RER-S4C-A230 (A04)	10 10 10



The List of Kits

Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 2C / 10A	24VDC 120VAC 230VAC	RER-L2C-D24 (A05) RER-L2C-A120 (A05) RER-L2C-A230 (A05)	10 10 10	Contact / 4C / 10A	24VDC 120VAC 230VAC	RER-L4C-D24 (A06) RER-L4C-A120 (A06) RER-L4C-A230 (A06)	10 10 10
Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 1C / 10A	24VDC 120VAC 230VAC	RER-J1C-D24 (A07) RER-J1C-A120 (A07) RER-J1C-A230 (A07)	10 10 10	Contact / 1C / 10A	24VDC 120VAC 230VAC	RER-J1C-D24 (A09) RER-J1C-A120 (A09) RER-J1C-A230 (A09)	10 10 10
Relay with base	Voltage rating	Part number	Package Qty.	Relay with base	Voltage rating	Part number	Package Qty.
Contact / 2C / 5A	24VDC 120VAC 230VAC	RER-J2C-D24 (A08) RER-J2C-A120 (A08) RER-J2C-A230 (A08)	10 10 10	Contact / 2C / 5A	24VDC 120VAC 230VAC	RER-J2C-D24 (A10) RER-J2C-A120 (A10) RER-J2C-A230 (A10)	10 10 10





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Industrial Relay

In the field of electrical control, the pluggable industrial relay is generally used in electrical isolation, electrical transmission, and amplifying the coordination with signals, such as DCS, PLC, and the application between I/O systems and on-site sensors with actuators.



RER Series Industrial Relay

Product Description

Dinkle's RER series of Industrial Relay fits the actual needs of the appropriate application in industrial control. It is stable and reliable with longer life time.



Product Features

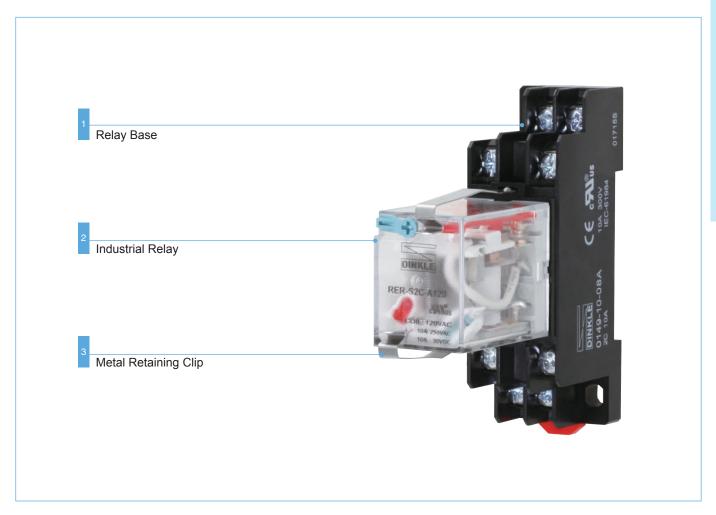
- Compact design, high rated loadings
- With optional test buttons of inching movement or self-locking, all producat are equipped with mechanical switch position indicator.
- Reasonable structure, wide range applications.
- Various specifications with integrated status display.
- Contact made by industrial AgNi alloy.

Product Certification



RER Series Industrial Relay

Product Structure



Product Application

Dinkle's RER Industrial Relays are in electromagnetic design, it is mainly used between control units and on-site devices, which achieve the effects of electrical isolation, voltage matching, noise suppression and signal amplification.

Working Mode

When the control voltage goes through the coil, the output contacts of relay will be energized by the electromagnetic effect; when the control voltage is cut off, the output contacts will return to its initial position.

RER-M2C-XXX / Part Number Description

RER-M2C-XXXX

1 2 3

- ① M = Spec.
- 2 2C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

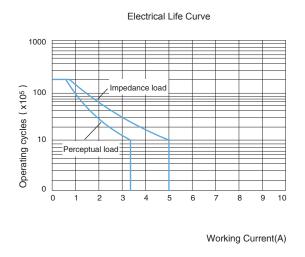


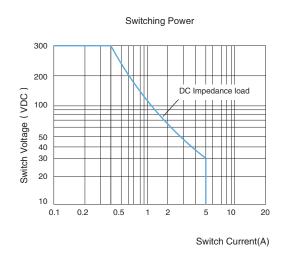
Specification

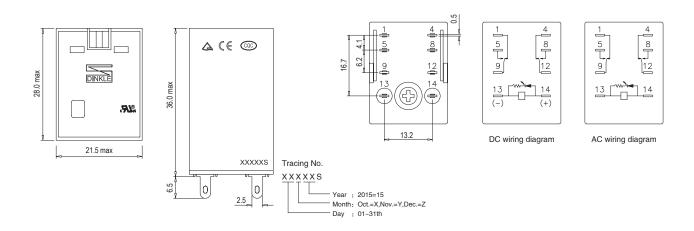
Coil Characteristics					
Rated voltage	24VDC	120VAC	230VAC		
Rated current	36.9mA	9.2mA	5.5mA		
Coil resistance	640Ω ± 10%	4430Ω ± 15%	4430Ω ± 15%		
Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)		
Release voltage (at 23℃)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)		
Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)		
Coil power consumption	0.9W	1.2VA	1.2VA		
LED Status display	Green/DC	Red/AC	Red/AC		
Contact Characteristics					
No. of contacts	2C				
Resistive load (AC-1)	5A/250VAC, 30VDC				
Motor load (AC-15)	1/3HP 120VAC, 1/2HP 240VAC				
Operating power (resistive)	1250VA, 150W				
Min. allowable load	10mA/17V				
Contact material	AgNi				
Contact resistance	≤50mΩ				
Dielectric Strength					
Between adjacent contacts	1000VAC/1min				
Between open contacts / between live parts and ground	1500VAC/1min				
Between contact and coil	2000VAC/1min				
Insulation resistance	≥500MΩ (500VDC)				
General Characteristics					
Operate time (rated voltage)	≤20ms				
Release time (rated voltage)	≤20ms				
Operating frequency	18000 Ops/h				
Ambient temperature	-55~+70°C (Non-freezing co	ondition)			
Ambient humidity	35%~85%RH				
Atmospheric pressure	86~106KPa				
Impact resistance	10G				
Vibration resistance	10~55Hz				
Electrical life (frequency: on for 1s, off for 1s)	≥10 ⁵ (1800 Ops/h)				
	≥10 ⁷ (18000 Ops/h)				
Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ (18000 Ops/h)				

Part Number	Product Description	Package Quantity	Specification
RER-M2C-XXXX	2C, 5A, with indicator and control button	20	
0149-10-08A	Screw connection relay base, DIN rail mounting	10	RER-M2C-XXXX
0149-11ES	Metal retaining clip	20	0149-10-08A
0149-13-08E	Clamping connection relay base, DIN rail mounting	10	RER-M2C-XXXX
0149-14	Pastic retaining clip	5	0149-13-08E
0149-36	6~250VDC Volt.suppression component	10	0149-13-08E
0149-35-24	6-24VAC / DC LED indicator	10	0149-13-08E
0149-35-240	110-240VAC / DC LED indicator	10	0149-13-08E

Performace Curve







RER-M4C-XXX / Part Number Description

RER-M4C-XXXX

1 2 3

- ① M = Spec.
- 2 4C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

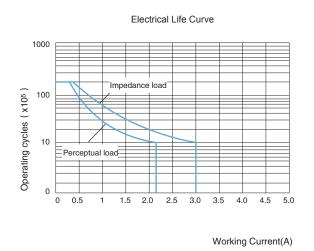


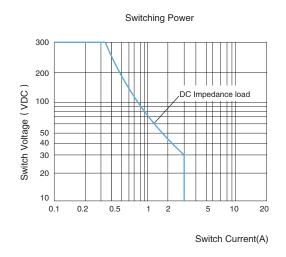
Specification

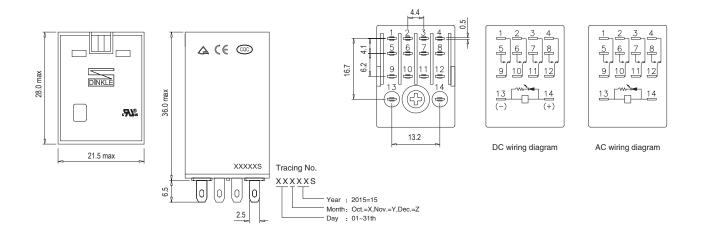
Coil Characteristics					
Rated voltage	24VDC	120VAC	230VAC		
Rated current	36.9mA	9.2mA	5.5mA		
Coil resistance	640Ω ± 10%	4430Ω ± 15%	4430 Ω ± 15%		
Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)		
Release voltage (at 23℃)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≽Rated voltage 30%)		
Max. Allowable voltage (at 23℃)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)		
Coil power consumption	0.9W	1.2VA	1.2VA		
LED Status display	Green/DC	Red/AC	Red/AC		
Contact Characteristics					
No. of contacts	4C				
Resistive load (AC-1)	3A/250VAC, 30VDC				
Motor load (AC-15)	1/3HP 240VAC, 1/6HP 240V	/AC			
Operating power (resistive)	750VA, 90W				
Min. allowable load	10mA/17V				
Contact material	AgNi				
Contact resistance	≤50mΩ				
Dielectric Strength					
Between adjacent contacts	1000VAC/1min				
Between open contacts / between live parts and ground	1500VAC/1min				
Between contact and coil	2000VAC/1min				
Insulation resistance	≥500MΩ (500VDC)				
General Characteristics					
Operate time (rated voltage)	≤20ms				
Release time (rated voltage)	≤20ms				
Operating frequency	18000 Ops/h				
Ambient temperature	-55~+70°C (Non-freezing co	ndition)			
Ambient humidity	35%~85%RH				
Atmospheric pressure	86~106KPa				
Impact resistance	10G				
Vibration resistance	10~55Hz				
Electrical life (frequency: on for 1s, off for 1s)	≥10 ⁵ (1800 Ops/h)				
Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ (18000 Ops/h)				
Weight per piece	About 35g				

Part Number	Product Description	Package Quantity	Specification
RER-M4C-XXXX	4C, 3A, with indicator and control button	20	
0149-10-14A	Screw connection relay base, DIN rail mounting	10	RER-M4C-XXXX
0149-11	Metal retaining clip	20	0149-10-14A
0149-13-14E	Clamping connection relay base, DIN rail mounting	10	RER-M4C-XXXX
0149-14	Pastic retaining clip	5	0149-13-14E
0149-36	6~250VDC Volt.suppression component	10	0149-13-14E
0149-35-24	6-24VAC / DC LED indicator	10	0149-13-14E
0149-35-240	110-240VAC / DC LED indicator	10	0149-13-14E

Performace Curve







RER-S2C-XXX / Part Number Description

RER-S2C-XXXX

1 2 3

① S = Spec.

2 2C = No. of contacts

③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

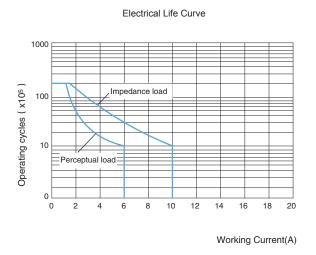


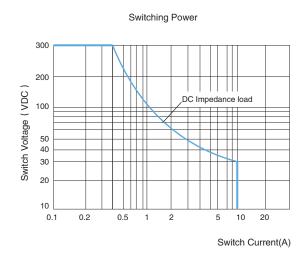
Specification

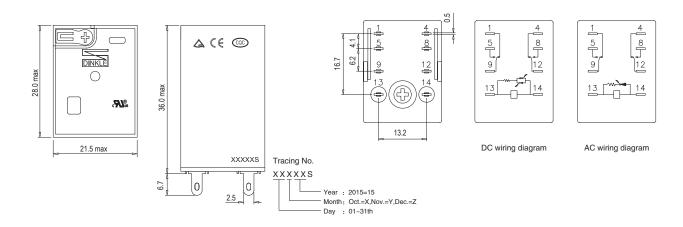
Rated voltage					
	24VDC	120VAC	230VAC		
Rated current	36.9mA	9.2mA	5.5mA		
Coil resistance	640Ω ± 10%	4430 Ω ± 15%	4430Ω ± 15%		
Operated voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)		
Release voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)		
Max. Allowable voltage (at 23℃)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)		
Coil power consumption	0.9W	1.2VA	1.2VA		
LED Status display	Green/DC	Red/AC	Red/AC		
Contact Characteristics					
No. of contacts	2C				
Resistive load (AC-1)	10A/250VAC, 30VDC				
Motor load (AC-15)	1/3HP 120VAC, 1/2HP 240V	/AC			
Operating power (resistive)	2500VA, 300W				
Min. allowable load	10mA/17V				
Contact material	AgNi				
Contact resistance	≤50mΩ				
Dielectric Strength					
Between adjacent contacts	1000VAC/1min				
Between open contacts / between live parts and ground	1500VAC/1min				
Between contact and coil	2000VAC/1min				
Insulation resistance	≥500MΩ (500VDC)				
General Characteristics					
Operate time (rated voltage)	≤20ms				
Release time (rated voltage)	≤20ms				
Operating frequency	18000 Ops/h				
Ambient temperature	-55~+70℃ (Non-freezing co	ndition)			
Ambient humidity	35%~85%RH				
Atmospheric pressure	86~106KPa				
Impact resistance	10G				
Vibration resistance	10~55Hz				
Electrical life (frequency: on for 1s, off for 1s)	≥10 ⁵ (1800 Ops/h)				
Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ (18000 Ops/h)				
Weight per piece	About 35g				

Part Number	Product Description	Package Quantity	Specification
RER-S2C-XXXX	2C, 10A, with indicator and control button	20	
0149-10-08A	Screw connection relay base, DIN rail mounting	10	RER-S2C-XXXX
0149-11ES	Metal retaining clip	20	0149-10-08A
0149-13-08E	Clamping connection relay base, DIN rail mounting	10	RER-S2C-XXXX
0149-14	Pastic retaining clip	5	0149-13-08E
0149-36	6~250VDC Volt.suppression component	10	0149-13-08E
0149-35-24	6-24VAC / DC LED indicator	10	0149-13-08E
0149-35-240	110-240VAC / DC LED indicator	10	0149-13-08E

Performace Curve







RER-S4C-XXX / Part Number Description

RER-S4C-XXXX

1 2 3

- ① S = Spec.
- 2 4C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V



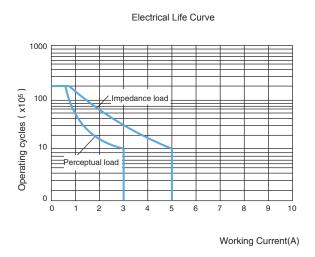
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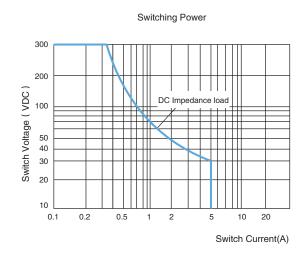
Coil Characteristics

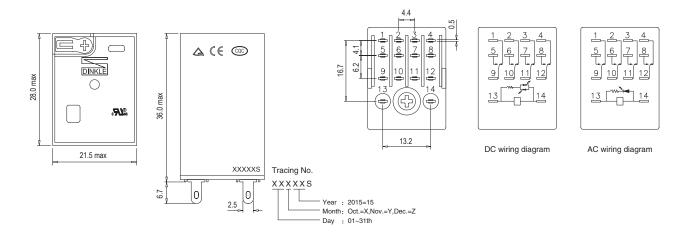
Con Characteristics	,		
Rated voltage	24VDC	120VAC	230VAC
Rated current	36.9mA	9.2mA	5.5mA
Coil resistance	640 Ω ± 10%	4430 Ω ± 15%	4430 Ω ± 15%
Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
Release voltage (at 23℃)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
Coil power consumption	0.9W	1.2VA	1.2VA
LED Status display	Green/DC	Red/AC	Red/AC
Contact Characteristics	'	'	
No. of contacts	4C		
Resistive load (AC-1)	5A/250VAC, 30VDC		
Motor load (AC-15)	1/3HP, 240VAC, 1/6HP, 2	240VAC	
Operating power (resistive)	1250VA, 150W		
Min. allowable load	10mA/17V		
Contact material	AgNi		
Contact resistance	≤50mΩ		
Dielectric Strength			
Between adjacent contacts	1000VAC/1min		
Between open contacts / between live parts and ground	1500VAC/1min		
Between contact and coil	2000VAC/1min		
Insulation resistance	≥500MΩ (500VDC)		
General Characteristics			
Operate time (rated voltage)	≤20ms		
Release time (rated voltage)	≤20ms		
Operating frequency	18000 Ops/h		
Ambient temperature	-55~+70°C (Non-freezing co	ondition)	
Ambient humidity	35%~85%RH		
Atmospheric pressure	86~106KPa		
Impact resistance	10G		
Vibration resistance	10~55Hz		
Electrical life (frequency: on for 1s, off for 1s)	≥10⁵次 (1800 Ops/h)		
Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ 次 (18000 Ops/h)		
Veight per piece About 35g			

Part Number	Product Description	Package Quantity	Specification
RER-S4C-XXXX	4C, 5A, with indicator and control button	20	
0149-10-14A	Screw connection relay base, DIN rail mounting	10	RER-S4C-XXXX
0149-11	Metal retaining clip	20	0149-10-14A
0149-13-14E	Clamping connection relay base, DIN rail mounting	10	RER-S4C-XXXX
0149-14	Pastic retaining clip	5	0149-13-14E
0149-36	6~250VDC Volt.suppression component	10	0149-13-14E
0149-35-24	6-24VAC / DC LED indicator	10	0149-13-14E
0149-35-240	110-240VAC / DC LED indicator	10	0149-13-14E

Performace Curve







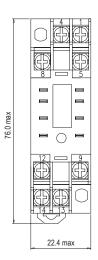
Specifications of Relay Base



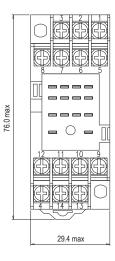


Part Number	0149-10-08A	0149-10-14A
Rated load current	10A	7A
Rated load voltage	300V	300V
Insulation resistance	2000V/s	2000V/s
Screw torque	1.0Nm	1.0Nm
External connection wire	20-14 / 0.5-2.5 (AWG/mm²)	20-14 / 0.5-2.5 (AWG/mm²)
Ambient temperature	-40~+65℃	-40~+65℃
Weight	About 34g	About 52g
Min. packing quantity	10pcs	10pcs
Mating part	RER-M2C / RER-S2C	RER-M4C / RER-S4C
Accessories		
Pastic retaining clip		
Metal retaining clip	0149-11ES (@2pcs)	0149-11 (@2pcs)
Electronic components		
DIN rail	TS-35	TS-35

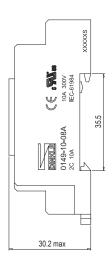
Dimensions



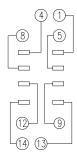




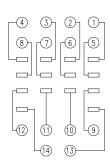
0149-10-14A



Terminal Configuration and Internal Wiring Diagram



0149-10-08A



0149-10-14A

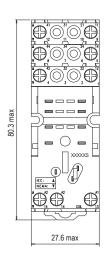
Specifications of Relay Base



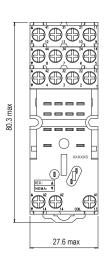
Part Number	0149-13-08E	0149-13-14E
Rated load current	12A	10A
Rated load voltage	300V	300V
Insulation resistance	2500V/s	2500V/s
Screw torque	1.0Nm	1.0Nm
External connection wire	20-14 / 0.5-2.5 (AWG/mm²)	20-14 / 0.5-2.5 (AWG/mm²)
Ambient temperature	-40~+85℃	-40~+85℃
Weight	About 50g	About 62g
Min. packing quantity	10pcs	10pcs
Mating part	RER-M2C / RER-S2C	RER-M4C / RER-S4C
Accessories		
Pastic retaining clip	0149-14 (@1pcs)	0149-14 (@1pcs)
Metal retaining clip		
Electronic components	0149-36 / 0149-35	0149-36 / 0149-35
DIN rail	TS-35	TS-35



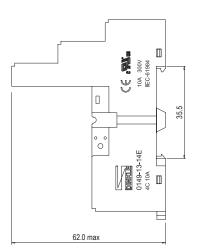
Dimensions



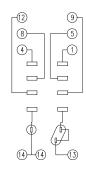




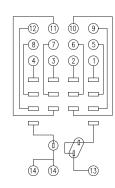
0149-13-14E



Terminal configuration and internal wiring diagram



0149-13-08E



0149-13-14E

RER-L2C-XXX / Part Number Description

RER-L2C-XXXX

1 2 3

- ① L = Spec.
- 2 2C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

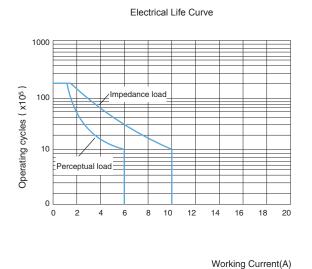


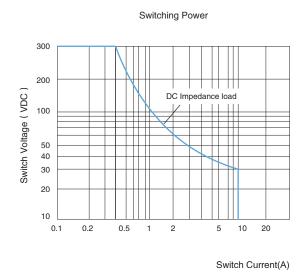
Specification

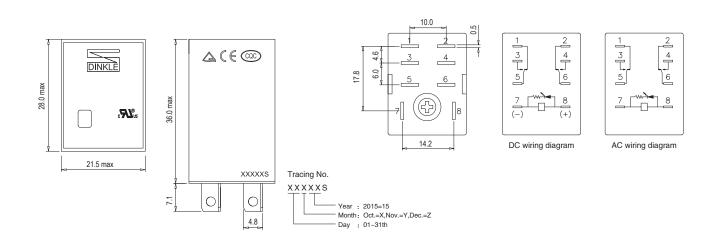
Rated voltage 24VDC 120VAC 230VAC Rated current 36 9mA 9.2mA 5.5mA Coll resistance 640 Ω ± 10% 4430 Ω ± 15% 4430 Ω ± 15% Operated voltage (at 23°C) 18V/≤ Rated voltage 75%) 86V/≤ Rated voltage 80%) 184√(≤ Rated voltage 80%) 66V/≤ Rated voltage 90%) Max. Allowable voltage (at 23°C) 2.4 V(≤ Rated voltage 110%) 325V(≤ Rated voltage 910%) 66V(≤ Rated voltage 910%) 66V(≤ Rated voltage 910%) 253V(Rated voltage 910%) 66V(≤ Rated voltage 910%) 66V(≤ Rated voltage 910%) 253V(Rated voltage 10%) 253V(Rated voltage 10%) 253V(R	Coil Characteristics			
Coll resistance 640 Ω ± 10% 4430 Ω ± 15% 4430 Ω ± 15% Operated voltage (at 23°C) 18V(≪Rated voltage 75%) 96V(≪Rated voltage 80%) 184V(≪Rated voltage 80%) Release voltage (at 23°C) 2.4V(≫Rated voltage 10%) 36V(≫Rated voltage 30%) 66V(≫Rated voltage 30%) 66V(≫Rated voltage 110%) 253V(Rated voltage 30%) 66V(≫Rated voltage 110%) 253V(Rated voltage 100%) 253V(Rated voltage 110%) 253V(Rated voltage 100%) 260V(AC 200V	Rated voltage	24VDC	120VAC	230VAC
Departed voltage (at 23°C) 18V(≪Rated voltage 75%) 96V(≪Rated voltage 80%) 184V(≪Rated voltage 80%) Release voltage (at 23°C) 2.4V(⊗Rated voltage 10°N) 36V(⊗Rated voltage 30°N) 69V(⊗Rated voltage 10°N) 69V(⊗Rated volt	Rated current	36.9mA	9.2mA	5.5mA
Release voltage (at 23°C)	Coil resistance	640Ω ± 10%	4430 Ω ± 15%	4430 Ω ± 15%
Max. Allowable voltage (at 23°C) 26.4V(Rated voltage 110%) 132V(Rated voltage 110%) 253V(Rated voltage 110%) Coil power consumption 0.9W 1.2VA 1.2VA LED Status display Green/DC Red/AC Red/AC Contact Characteristics	Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
Coil power consumption 0.9W 1.2VA 1.2VA LED Status display Green/DC Red/AC Red/AC Contact Characteristics 2C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≪ 50mΩ Dielectric Strength 850mΩ Between adjacent contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≫ 500MQ (500VDC) General Characteristics 20ms Operate time (rated voltage) ≪ 20ms Release time (rated voltage) ≪ 20ms Release time (rated voltage) ≪ 20ms Operating frequency 18000 Ops/h Ambient temperature ~ 25~+55°C (Non-freezing condition) Armospheric pressure 86-106KPa Impact resistance 10G Vibration resistance 10°G Vibration fresistance 10°(1800 Ops/h)	Release voltage (at 23℃)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≽Rated voltage 30%)
LED Status display Green/DC Red/AC Red/AC Contact Characteristics 2C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Description of the control of the co	Max. Allowable voltage (at 23℃)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
Contact Characteristics 2C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤ 50mΩ Dielectric Strength Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance > 500MΩ (500VDC) General Characteristics Operate time (rated voltage) ≤ 20ms Release time (rated voltage) ≤ 20ms Operating frequency 18000 Ops/h Ambient temperature −25+55°C (Non-freezing condition) Ambient tumidity 35%-85%RH Atmospheric pressure 86-106KPa Impact resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10° (1800 Ops/h) Mechanical life (frequency: on for 1s, off for 1s) ≥ 10° (1800 Ops/h)	Coil power consumption	0.9W	1.2VA	1.2VA
No. of contacts 2C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance <50mΩ	LED Status display	Green/DC	Red/AC	Red/AC
Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance <50mΩ	Contact Characteristics	,		
Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength 1000VAC/1min Between adjacent contacts / between live parts and ground 2000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) <20ms	No. of contacts	2C		
Departing power (resistive) 2500VA, 300W	Resistive load (AC-1)	10A/250VAC, 30VDC		
Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) <20ms	Motor load (AC-15)	1/3HP, 120VAC, 1/2HP, 2	240VAC	
Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength 1000VAC/1min Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Insulation resistance >500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) <20ms	Operating power (resistive)	2500VA, 300W		
Contact resistance	Min. allowable load	10mA/17V		
Dielectric Strength 1000VAC/1min Between adjacent contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) ≤ 20ms Release time (rated voltage) ≤ 20ms Operating frequency 18000 Ops/h Ambient temperature −25-+55°C (Non-freezing condition) Ambient humidity 35%-85%RH Atmospheric pressure 86-106KPa Impact resistance 10G Vibration resistance 10G Vibration resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (1800 Ops/h)	Contact material	AgSnO ₂		
Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature −25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86-106KPa Impact resistance 10G Vibration resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Contact resistance	≤50mΩ		
Between open contacts / between live parts and ground Between contact and coil 2000VAC/1min Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) Release time (rated voltage) ≤ 20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Armbient humidity 35%-85%RH Atmospheric pressure Impact resistance 10G Vibration resistance 10G-55Hz Electrical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h)	Dielectric Strength	,		
Between contact and coil Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) Release time (rated voltage) ≤ 20ms Release time (rated voltage) Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h)	Between adjacent contacts	1000VAC/1min		
Insulation resistance ≥500MΩ (500VDC) General Characteristics Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature −25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (18000 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Between open contacts / between live parts and ground	2000VAC/1min		
General Characteristics Operate time (rated voltage)	Between contact and coil	2000VAC/1min		
Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Insulation resistance	≥500MΩ (500VDC)		
Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	General Characteristics	1		
Operating frequency Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Operate time (rated voltage)	≤20ms		
Ambient temperature $-25 \sim +55 ^{\circ} \text{C}$ (Non-freezing condition) Ambient humidity $35 \% \sim 85 ^{\circ} \text{RH}$ Atmospheric pressure $86 \sim 106 \text{KPa}$ Impact resistance 10G Vibration resistance $10 \sim 55 \text{Hz}$ Electrical life (frequency: on for 1s, off for 1s) $\geqslant 10^{\circ}$ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) $\geqslant 10^{\circ}$ (18000 Ops/h)	Release time (rated voltage)	≤20ms		
Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Operating frequency	18000 Ops/h		
Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10⁻ (18000 Ops/h)	Ambient temperature	-25~+55°C (Non-freezing co	ondition)	
Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Ambient humidity	35%~85%RH		
Vibration resistance $10\sim55Hz$ Electrical life (frequency: on for 1s, off for 1s) $\geq 10^5$ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) $\geq 10^7$ (18000 Ops/h)	Atmospheric pressure	86~106KPa		
Electrical life (frequency: on for 1s, off for 1s) $\geq 10^5$ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) $\geq 10^7$ (18000 Ops/h)	Impact resistance	10G		
Mechanical life (frequency: 300 cycles/1 min) ≥10 ⁷ (18000 Ops/h)	Vibration resistance	10~55Hz		
	Electrical life (frequency: on for 1s, off for 1s)	≥ 10 ⁵ (1800 Ops/h)		
Weight per piece About 35g	Mechanical life (frequency: 300 cycles/1 min)	n) ≥10 ⁷ (18000 Ops/h)		
	Neight per piece About 35g			

Part Number	Product Description	Package Quantity	Specification
RER-L2C-XXXX	2C, 10A, with indicator and control button	20	
0149-20-08A	Screw connection relay base, DIN rail mounting	10	RER-L2C-XXXX
0149-21	Metal retaining clip	20	0149-20-08A

Performace Curve







RER-L4C-XXX / Part Number Description

RER-L4C-XXXX

1 2 3

- ① L = Spec.
- 2 4C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

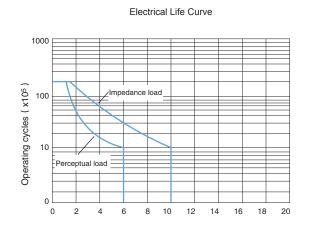


Specification

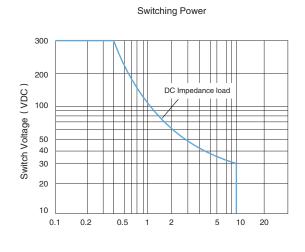
Rated current GemA	Coil Characteristics		,	
Coli resistance 360 G ± 10% 4430 G ± 15% 4430 G ± 15%	Rated voltage	24VDC	120VAC	230VAC
Departed voltage (at 23°C) 18V(≪Rated Voltage 75%) 96V(≪Rated voltage 80%) 184V(≪Rated voltage 80%) Release voltage (at 23°C) 2.4V(⊗Rated Voltage 10°N) 36V(⊗Rated voltage 30°N) 69V(⊗Rated volt	Rated current	69mA	21.8mA	10.8mA
Release voltage (at 23°C)	Coil resistance	360 Ω ± 10%	4430Ω ± 15%	4430 Ω ± 15%
Max. Allowable voltage (at 23°C) 26.4V(Rated Voltage 110%) 132V(Rated voltage 110%) 253V(Rated voltage 110%) Coil power consumption 1.5W 2.5VA 2.5VA LED Status display Green/VDC Red/VAC Red/VAC Contact Characteristics V Red/VAC Red/VAC No. of contacts 4C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50mΩ Dielectric Strength Seween adjacent contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Seween open contacts / between live parts and ground 2000VAC/1min Insulation resistance ≥500MQ (500VDC) General Characteristics Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Ambient temperature −25-455°C (Non-freezing condit	Operated voltage (at 23℃)	18V(≤Rated Voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
Coil power consumption 1.5W 2.5VA 2.5VA 2.5VA LED Status display Green/VDC Red/VAC Red/VAC Red/VAC Red/VAC Red/VAC Red/VAC Red/VAC Red/VAC Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50mΩ Dielectric Strength Between adjacent contacts between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≤500MΩ (500VDC) General Characteristics	Release voltage (at 23°C)	2.4V(≥Rated Voltage 10%)	36V(≥Rated voltage 30%)	69V(≽Rated voltage 30%)
LED Status display	Max. Allowable voltage (at 23℃)	26.4V(Rated Voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
Contact Characteristics 4C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mx/17V Contact material AgSnO₂ Cortact resistance ≤50mΩ Dielectric Strength ■ Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance >500MΩ (500VDC) General Characteristics Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature −25+55°C (Non-freezing condition) Ambient tumidity 35%-85%RH Atmospheric pressure 86-106KPa Impact resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (1800 Ops/h)	Coil power consumption	1.5W	2.5VA	2.5VA
No. of contacts 4C Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance <50mΩ	LED Status display	Green/VDC	Red/VAC	Red/VAC
Resistive load (AC-1) 10A/250VAC, 30VDC Motor load (AC-15) 1/3HP, 120VAC, 1/2HP, 240VAC Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance <50mΩ	Contact Characteristics			
Motor load (AC-15)	No. of contacts	4C		
Operating power (resistive) 2500VA, 300W Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength 850m Ω Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) <20ms	Resistive load (AC-1)	10A/250VAC, 30VDC		
Min. allowable load 10mA/17V Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics Operate time (rated voltage) Operate time (rated voltage) <20ms	Motor load (AC-15)	1/3HP, 120VAC, 1/2HP, 2	40VAC	
Contact material AgSnO₂ Contact resistance ≤50m Ω Dielectric Strength 1000VAC/1min Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance >500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) <20ms	Operating power (resistive)	2500VA, 300W		
Contact resistance	Min. allowable load	10mA/17V		
Dielectric Strength 1000VAC/1min Between adjacent contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) ≤ 20ms Release time (rated voltage) ≤ 20ms Operating frequency 18000 Ops/h Ambient temperature −25-+55°C (Non-freezing condition) Armospheric pressure 86-106KPa Impact resistance 10G Vibration resistance 10G Vibration resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h)	Contact material	AgSnO ₂		
Between adjacent contacts 1000VAC/1min Between open contacts / between live parts and ground 2000VAC/1min Between contact and coil 2000VAC/1min Insulation resistance ≥500MΩ (500VDC) General Characteristics 20ms Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature −25~+55°C (Non-freezing condition) Armbient humidity 35%-85%RH Atmospheric pressure 86-106KPa Impact resistance 10G Vibration resistance 10-55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (18000 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Contact resistance	≤50mΩ		
Between open contacts / between live parts and ground Between contact and coil 2000VAC/1min Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) Release time (rated voltage) ○ 20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure Impact resistance 10G Vibration resistance 10—55Hz Electrical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h)	Dielectric Strength			
Between contact and coil Insulation resistance ≥ 500MΩ (500VDC) General Characteristics Operate time (rated voltage) Release time (rated voltage) ≤ 20ms Release time (rated voltage) Operating frequency 18000 Ops/h Ambient temperature -25~+55℃ (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h) ≥ 10° (18000 Ops/h)	Between adjacent contacts	1000VAC/1min		
Insulation resistance ≥500MΩ (500VDC) General Characteristics Sequested time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature −25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Between open contacts / between live parts and ground	2000VAC/1min		
General Characteristics Operate time (rated voltage) ≤ 20ms Release time (rated voltage) ≤ 20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10° (18000 Ops/h)	Between contact and coil	2000VAC/1min		
Operate time (rated voltage) ≤20ms Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Insulation resistance	≥500MΩ (500VDC)		
Release time (rated voltage) ≤20ms Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	General Characteristics	ı		
Operating frequency 18000 Ops/h Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Operate time (rated voltage)	≤20ms		
Ambient temperature -25~+55°C (Non-freezing condition) Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥ 10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥ 10⁻ (18000 Ops/h)	Release time (rated voltage)	≤20ms		
Ambient humidity 35%~85%RH Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10° (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10° (18000 Ops/h)	Operating frequency	18000 Ops/h		
Atmospheric pressure 86~106KPa Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Ambient temperature	-25~+55°C (Non-freezing condition)		
Impact resistance 10G Vibration resistance 10~55Hz Electrical life (frequency: on for 1s, off for 1s) ≥10⁵ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) ≥10⁻ (18000 Ops/h)	Ambient humidity	35%~85%RH		
Vibration resistance $10\sim55Hz$ Electrical life (frequency: on for 1s, off for 1s) $\geq 10^5$ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) $\geq 10^7$ (18000 Ops/h)	Atmospheric pressure	86~106KPa		
Electrical life (frequency: on for 1s, off for 1s) $\geq 10^5$ (1800 Ops/h) Mechanical life (frequency: 300 cycles/1 min) $\geq 10^7$ (18000 Ops/h)	Impact resistance	10G		
Mechanical life (frequency: 300 cycles/1 min) ≥10 ⁷ (18000 Ops/h)	Vibration resistance	10~55Hz		
	Electrical life (frequency: on for 1s, off for 1s)	≥10 ^s (1800 Ops/h)		
Weight per piece About 65g	Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ (18000 Ops/h)		
	Veight per piece About 65g			

Part Number	Product Description	Package Quantity	Specification
RER-L4C-XXXX	RER-L4C-XXXX 4C, 10A, with indicator and control button		
0149-20-14A Screw connection relay base, DIN rail mounting		10	RER-L4C-XXXX
0149-21	Metal retaining clip	20	0149-20-14A

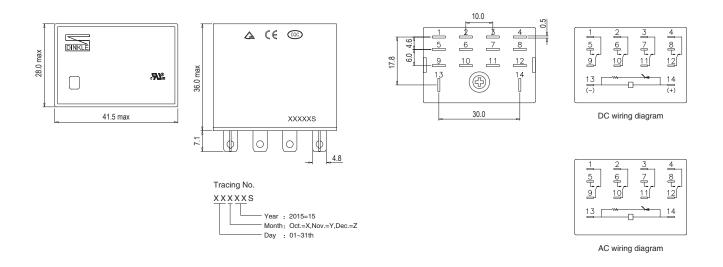
Performace Curve



Working Current(A)



Switch Current(A)



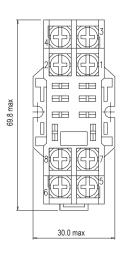
Specifications of Relay Base

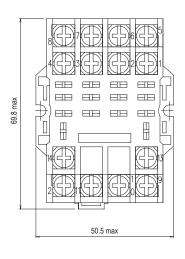


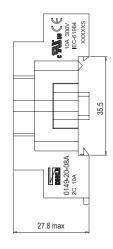


Part Number	0149-20-08A	0149-20-14A
Rated load current	10A	10A
Rated load voltage	300V	300V
Insulation resistance	2000V/s	2000V/s
Screw torque	1.0Nm	1.0Nm
External connection wire	20-14 / 0.5-2.5 (AWG/mm²)	20-14 / 0.5-2.5 (AWG/mm²)
Ambient temperature	-40~+85℃	-40~+85℃
Weight	About 43g	About 76g
Min. packing quantity	10pcs	10pcs
Mating part	RER-L2C	RER-L4C
Accessories		
Pastic retaining clip		
Metal retaining clip	0149-21 (@2pcs)	0149-21 (@2pcs)
Electronic components		
DIN rail	TS-35	TS-35

Dimensions



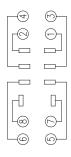


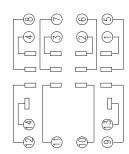


0149-20-08A

0149-20-14A

Terminal Configuration Internal Wiring Diagram





0149-20-08A

0149-20-14A

Industrial Relay Compact Type

Bottom width is only 15.5mm, applicable to all kinds of electrical control field. It saves cabinet space in projects of mechanical equipment and systems integration.

RER Industrial Relay (Compact Type)

Product Description

Dinkle's RER series of Industrial Relay better fits the actual needs of the appropriate application in industrial control. It is stable and reliable with longer life time.



Product Features

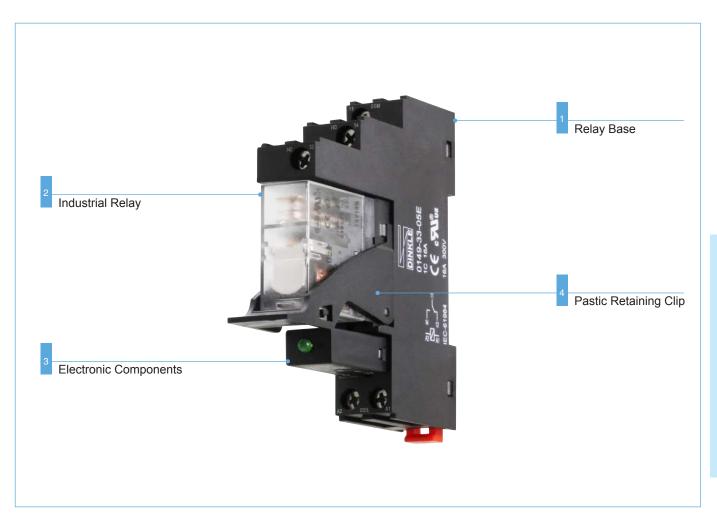
- Compact design, high rated loadings
- Reasonable structure, wide range application
- Various specifications with integrated status display
- Contact material by industrial AgSnO₂ alloy

Product Certification



RER Industrial Relay (Compact Type)

Product Structure



Product Application

Dinkle's RER Industrial relays are in electromagnetic design, they are mainly used between control unit and the field devices to achieve the effects of electrical isolation, voltage matching, noise suppression and signal amplification.

Working Mode

When the control voltage goes through the coil, the output contacts of relay will be energized by the electromagnetic effect. When the control voltage is cut off, the output contact will return to its initial position.

RER-J1C-XXX / Part Number Description

RER-J1C-XXXX

1 2 3

- 1 J = Spec.
- 2 1C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V

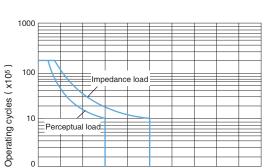


Specification

Coil Characteristics				
Rated voltage	24VDC	120VAC	230VAC	
Rated current	21.8mA	7.6mA	3.9mA	
Coil resistance	1100Ω ± 10%	4430Ω ± 15%	4430 Ω ± 15%	
Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)	
Release voltage (at 23℃)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)	
Max. Allowable voltage (at 23℃)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)	
Coil power consumption	0.53W	1.0VA	1.0VA	
LED Status display	Green/DC	Red/AC	Red/AC	
Contact Characteristics			'	
No. of contacts	1C			
Resistive load (AC-1)	10A/250VAC, 30VDC			
Motor load (AC-15)	1/3HP, 240VAC, 1/2HP, 2	40VAC		
Operating power (resistive)	2500VA, 300W			
Min. allowable load	10mA/17V	10mA/17V		
Contact material	AgSnO ₂	AgSnO ₂		
Contact resistance	≤50mΩ	<50mΩ		
Dielectric Strength				
Between adjacent contacts	1000VAC/1min	1000VAC/1min		
Between open contacts / between live parts and ground				
Between contact and coil	5000VAC/1min	5000VAC/1min		
Insulation resistance	≥1000MΩ (500VDC)	≥1000MΩ (500VDC)		
General Characteristics				
Operate time (rated voltage)	≤20ms			
Release time (rated voltage)	≤20ms			
Operating frequency	18000 Ops/h			
Ambient temperature	-40~+55°C (Non-freezing co	ondition)		
Ambient humidity	35%~85%RH	35%~85%RH		
Atmospheric pressure	86~106KPa			
Impact resistance	10G	10G		
Vibration resistance	10~55Hz			
Electrical life (frequency: on for 1s, off for 1s)	≥10⁵ (1800 Ops/h)			
Mechanical life (frequency: 300 cycles/1 min)	≥10 ⁷ (18000 Ops/h)	≥10 ⁷ (18000 Ops/h)		
Weight per piece	About 19g	About 19g		

Part Number	Product Description	Package Quantity	Specification
RER-J1C-XXXX	1C, 10A, with indicator and control button	20	
0149-30-05A	Screw connection relay base, DIN rail mounting	10	RER-J1C-XXXX
0149-33-05E	Clamping connection relay base, DIN rail mounting	10	RER-J1C-XXXX
0149-32	Pastic retaining clip	10	0149-33-05E
0149-36	6~250VDC Volt.suppression component	10	0149-33-05E
0149-35-24	6-24VAC / DC LED indicator	10	0149-33-05E
0149-35-240	110-240VAC / DC LED indicator	10	0149-33-05E

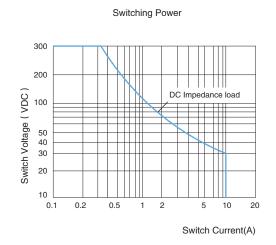
Performace Curve

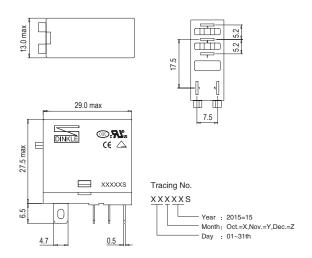


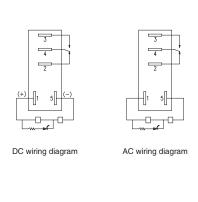
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Electrical Life Curve

Working Current(A)







RER-J2C-XXX / Part Number Description

RER-J2C-XXXX

1 2 3

- ① J = Spec.
- 2 2C = No. of contacts
- ③ XXXX = Voltage

D24 = DC24V

A120 = AC120V

A230 = AC230V



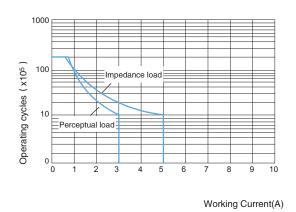
Specification

Coil Characteristics			
Rated voltage	24VDC	120VAC	230VAC
Rated current	21.8mA	7.6mA	3.9mA
Coil resistance	1100Ω ± 10%	4430Ω ± 15%	4430 Ω ± 15%
Operated voltage (at 23℃)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
Release voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≽Rated voltage 30%)
Max. Allowable voltage (at 23℃)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
Coil power consumption	0.53W	1.0VA	1.0VA
LED Status display	Green/DC	Red/AC	Red/AC
Contact Characteristics			
No. of contacts	2C		
Resistive load (AC-1)	5A/250VAC, 30VDC		
Motor load (AC-15)	1/6HP, 240VAC		
Operating power (resistive)	1250VA, 150W		
Min. allowable load	10mA/17V		
Contact material	AgSnO ₂		
Contact resistance	≤50mΩ		
Dielectric Strength			
Between adjacent contacts	1000VAC/1min		
Between open contacts / between live parts and ground	1000VAC/1min		
Between contact and coil	5000VAC/1min		
Insulation resistance	≥1000MΩ (500VDC)		
General Characteristics			
Operate time (rated voltage)	≤20ms		
Release time (rated voltage)	≤20ms		
Operating frequency	18000 Ops/h		
Ambient temperature	-40~+55℃ (Non-freezing co	ndition)	
Ambient humidity	35%~85%RH		
Atmospheric pressure	86~106KPa		
Impact resistance	10G		
Vibration resistance	10~55Hz		
Electrical life (frequency: on for 1s, off for 1s)	≥10⁵ (1800 Ops/h)		
Mechanical life (frequency: 300 cycles/1 min)	/1 min) ≥10 ⁷ (18000 Ops/h)		
Weight per piece About 19g			

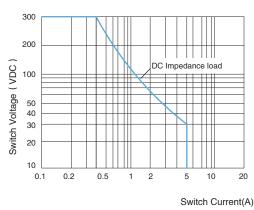
Part Number	Product Description	Package Quantity	Specification
RER-J2C-XXXX	RER-J2C-XXXX 2C, 5A, with indicator and control button		
0149-30-08A	149-30-08A Screw connection relay base, DIN rail mounting		RER-J2C-XXXX
0149-33-08E Clamping connection relay base, DIN rail mounting		10	RER-J2C-XXXX
0149-32 Pastic retaining clip		10	0149-33-08E
0149-36 6~250VDC Volt.suppression component		10	0149-33-08E
0149-35-24 6-24VAC / DC LED indicator		10	0149-33-08E
0149-35-240 110-240VAC / DC LED indicator		10	0149-33-08E

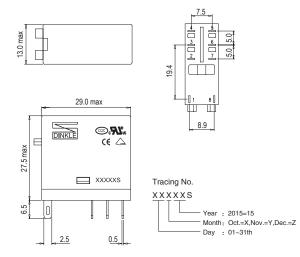
Performace Curve

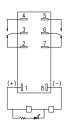


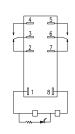


Switching Power









DC wiring diagram

AC wiring diagram

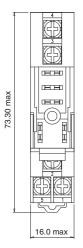
Specifications of Relay Base



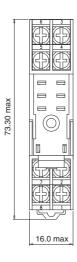
Part Number	0149-30-05A	0149-30-08A
Rated load current	16A	10A
Rated load voltage	300V	300V
Insulation resistance	2500V/s	2500V/s
Screw torque	0.8Nm	0.8Nm
External connection wire	20-14 / 0.5-2.5 (AWG/mm²)	20-14 / 0.5-2.5 (AWG/mm²)
Ambient temperature	-40~+85℃	-40~+85℃
Weight	About 22g	About 25g
Min. packing quantity	10pcs	10pcs
Mating part	RER-J1C	RER-J2C
Accessories		
Pastic retaining clip		
Metal retaining clip		
Electronic components		
DIN rail	TS-35	TS-35



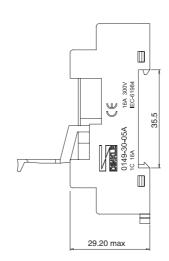
Dimensions



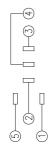




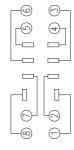
0149-30-08A



Terminal Configuration and Internal Wiring Diagram



0149-30-05A



0149-30-08A

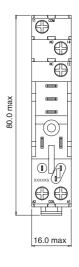
Specifications of Relay Base

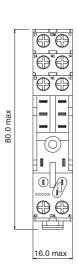


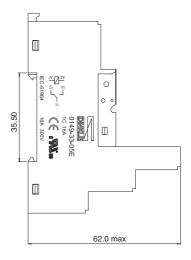
Part Number	0149-33-05E	0149-33-08E
Rated load current	16A	10A
Rated load voltage	300V	300V
Insulation resistance	2500V/s	2500V/s
Screw torque	1.0Nm	1.0Nm
External connection wire	20-14 / 0.5-2.5 (AWG/mm²)	20-14 / 0.5-2.5 (AWG/mm²)
Ambient temperature	-40~+85℃	-40~+85℃
Weight	About 33g	About 40g
Min. packing quantity	10pcs	10pcs
Mating part	RER-J1C	RER-J2C
Accessories		
Pastic retaining clip	0149-32 (@1pcs)	0149-32 (@1pcs)
Metal retaining clip		
Electronic components	0149-36 / 0149-35	0149-36 / 0149-35
DIN rail	TS-35	TS-35



Dimensions



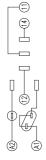


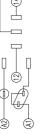


0149-33-05E

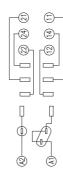
0149-33-08E

Terminal configuration and internal wiring diagram





0149-33-05E

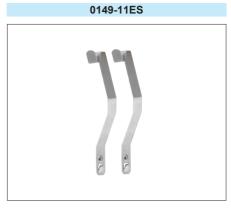


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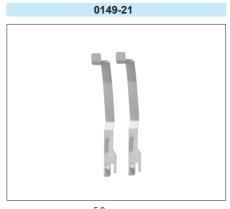
Accessories

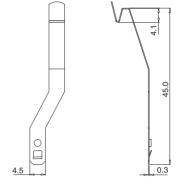


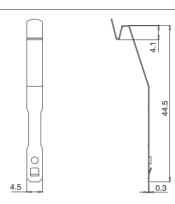
Metal Retaining Clip

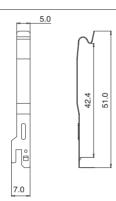












Part Number	Mating Part	Min. Packing Quantity
0149-11ES	0149-10-08A	20
0149-11	0149-10-14A	20
0149-21	0149-20-08A、0149-20-14A	20

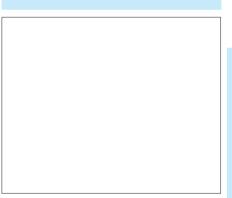
Plastic Retaining Clip

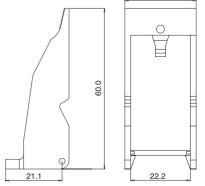


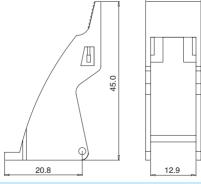


15.7

0149-32







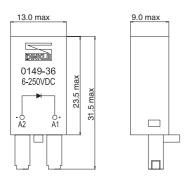
Part Number	Mating Part	Min. Packing Quantity
0149-14	0149-13-08E、0149-13-14E	5
0149-32	0149-33-05E、0149-33-08E	10

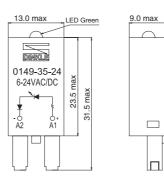
Electronic Components

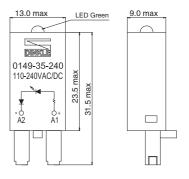
0149-36 0149-36 8-250VDC



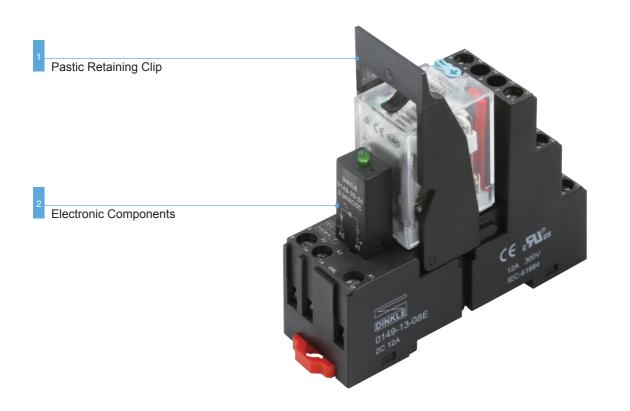








Part Number	Mating Part	Min. Packing Quantity
0149-36	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E	10
0149-35-24	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E	10
0149-35-240	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E	10



Industrial Relay Technical Information Referring standard: IEC61810-1, GBT21711.1

Contact information

Contact type

Name	Symbol	Marking	Code
Normal open	\	NO	A
Normal close	}	NC	В
Common	لها	СОМ	С

Contact resistance

Contact resistance refers to the contribution to the total resistance of a system which is attributed to the contacting interfaces of contact points, the connected springs and the related circuit. The unit of measurement is ohm.

Contact rating load

Generally, the specification of contact rating load is resistive load for sure until otherwise specify.

For instance: if a sample shown as 5A 230VAC/30VDC, which means maximum rated loading current is 5A and it's not allow to exceed 230 VAC or 30 VDC for voltage capacity.

Contact material

As the relay is been used in a various industrial fields, it is important to select the appropriate material that could meet the needs for each application.

Contact material information

Contact material	Material characteristics	Application	Spec. range
AgNi (Silver-Nickel)	 Typical material of the contact Good electric & thermo conductivities Superior affordability, no worry about contact ignition Low contact conglutination Available for heavy loading; DC cir inductive loading.		Rated current <12A; impulse current <30A
AgSnO ₂ – Well affordability in high switching power		Available for high switching power AC loading; inductive loading.	Rated current <30A; impulse current <50A
AgNi+Au (Silver–Nickel plated with gold)	Low current excited Good electric & thermo conductivities Common ability against contact conglutination No worry about oxidation	Lamp load, inductive load and part of capacity load	High impulse current, max: 120A Min. conductive current < 5mA

Coil information

Release voltage

Release voltage means that when the relay is de–excited, the relay contact is normally switched and retained at the specified position, and no action is led.

Operated voltage

Operated voltage refers to the minimum working voltage that the relay can safely operate, so that the relay contacts can be normally converted and maintained in proper position.

Coil impedance and characteristics

The impedance of the coil can be measured with a resistance meter. The resistance is measured at a safety standard at 23°C. The tolerance is +/-10%. For the AC coils, the coil current and resistance do not match due to effect of self-inductance. At 230V, the coefficient of self-inductance will reach to 90H. When the coil is disconnected, the induced voltage from self-induction will affect the switching source.

Protection circuit information

Protection type	Schematic diagram	Applicable coil	Response time	Application	Spec. range
Diode (Fly back)	A1 ************************************	Coil for DC	4 times of release time	Diode is used to the condition when damping released leads to transient energy. (to suppress counter emf)	Protective level III (2000V) up to 60VDC Protective level IV (4000V) from 61 to 250 VDC.
Diode+LED (Fly back + LED)	A1	Coil for DC	4 times of release time		Protective level III (2000V) up to 60VDC Protective level IV (4000V) from 61 to 250 VDC.
RC (Sparkle absorber)	A1 — R	Coil for AC Contact for AC		Application for AC, driving to inductive load	Protective level III (2000V)
Bridge	A1 A2	Coil for both AC/DC	3 times of release time	Application for AC, it can be applied with AC or DC. Maximum voltage up to 250V.	Protective level II (1000V), max to 24V Protective level III (2000V) 25V~60V Protective level IV (1000V) 61V~250V