



Product Service

# CERTIFICATE

No. B 013332 0525 Rev. 00

**Holder of Certificate:** **IDEC CORPORATION**  
2-6-64 Nishimiyahara, Yodogawa-Ku  
Osaka  
532-0004 JAPAN

**Certification Mark:**



**Product:** **Relay, all-or-nothing  
(with forcibly guided contacts)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64105213019201A

**Valid until:** 2027-10-24

**Date,** 2023-03-20

( Martin Ma )

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**Model(s):**

**RF1V Series**

(Description the rule of the designation of the relay)

RF1V - 2A2B L D1 - D24 - XXX  
 I II III IV V VI

**I – Series designation**

RF1V: RF1V relay

**II – Contact configuration**

2A2B: 4 pole, 2NO-2NC (2 Form A, 2 Form B)

3A1B: 4 pole, 3NO-1NC (3 Form A, 1 Form B)

4A2B: 6 pole, 4NO-2NC (4 Form A, 2 Form B)

5A1B: 6 pole, 5NO-1NC (5 Form A, 1 Form B)

3A3B: 6 pole, 3NO-3NC (3 Form A, 3 Form B)

**III – Operation lamp and protection type**

Blank: Standard (without LED)

L: with LED

**IV – Diode**

Blank: Standard (without Diode)

D1: with Diode

**V – Coil voltage**

D5: DC5V

D6: DC6V

D9: DC9V

D12: DC12V

D16: DC16V

D18: DC18V

D21: DC21V

D24: DC24V

D36: DC36V

D48: DC48V

**VI – Customer Management Number**

(Not effected to safety)

XXX: Blank or any alphanumeric character

## Parameters:

Rated voltage(s) of the coil(s):	DC 5V; 6V; 9V; 12V; 16V; 18V; 21V; 24V; 36V; 48V.
Rated power of the coil(s):	360mW (RF1V-2A2B, RF1V-3A1B); 500mW (RF1V-4A2B, RF1V-5A1B, RF1V-3A3B)
Rated voltage(s) of the contacts:	See Load circuit rating table 1 and 2
Rated current(s) of the contacts:	See Load circuit rating table 1 and 2
Electrical endurance:	See Load circuit rating table 1 and 2
Mechanical endurance:	1E7
Ambient temperature:	-40 to 85°C (the continuous current ≤4.5A); -40 to 70°C (the continuous current ≤6A)
Overvoltage category:	III
Categories of environmental protection(RT)	RTII, RTIII(RF1V-2A2B, RF1V-3A1B)
Type of interruption:	Micro-disconnection
Insulation system between coil and contact:	Reinforced insulation
Type of forcibly guided contacts:	Type A

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Load circuit rating table 1:

Type of load	NO or NC contact	Rated voltage(s) of the contacts	Rated current(s) of the contacts	Pow factor or time constant	Duty factor	Frequency of cycles	Electrical endurance cycles	With or without overload
Resistive	NO	6A	250VAC	Cos phi1	50%	1200/h	100 000	Without
Resistive	NO	6A	30VDC	0ms	50%	1200/h	100 000	Without
Resistive	NC	6A	250VAC	Cos phi1	50%	1200/h	100 000	Without
Resistive	NC	6A	30VDC	0ms	50%	1200/h	100 000	Without
Inductive	NO	2A	240VAC	Cos phi 0.3	50%	1200/h	100 000	Without
Inductive	NO	1A	24VDC	48ms	50%	1200/h	100 000	Without
Inductive	NC	2A	240VAC	Cos phi 0.3	50%	1200/h	100 000	Without
Inductive	NC	1A	24VDC	48ms	50%	1200/h	100 000	Without

Load circuit rating table 2:

Type of load	NO or NC contact	Rated voltage(s) of the contacts	Rated current(s) of the contacts	Electrical endurance cycles	With or without overload
AC-15	NO	2A	240VAC	6050	With
AC-15	NC	2A	240VAC	6050	With
DC-13	NO	1A	24 VDC	6050	With
DC-13	NC	1A	24 VDC	6050	With

Remark: All the electrical endurance tests mentioned above are conducted at ambient temperature.

**Tested according to:** EN 61810-1:2015/A1:2020  
EN 61810-3:2015