

**Aumictech**

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Data Sheet

August 15, 2026

IDEC

IDEC RY2S-U Miniature Relay

The IDEC RY2S-U is a miniature relay designed for a variety of applications. It features a compact design, making it suitable for high-density mounting. This relay is known for its reliable performance and long lifespan. It is commonly used in automation, control panels, and other industrial applications.



MODEL

IDEC RY2S-U

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

RY2S-U

LISTING

<https://aumictechlabs.com/products/ry2s-u-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The IDEC RY2S-U is a miniature DPDT relay engineered for industrial automation and control panel applications requiring compact, high-density mounting. This general-purpose relay delivers switching capacity up to 3A at 240V AC with gold-plated silver contacts rated for extended electrical and mechanical duty cycles. The RY2S-U combines low contact resistance with multiple coil voltage options and socket compatibility, making it suitable for OEM integration in demanding industrial environments. Technical Specifications Electrical Performance Contact configuration: DPDT (Double Pole Double Throw) Contact rating: 3A @ 240V AC / 30V DC Maximum switching capacity: 3A AC resistive, 3A AC inductive, 1A DC resistive, 0.5A DC inductive Contact resistance: 50 mΩ maximum Coil voltage options: 24VAC, 120VAC, 220VAC Dielectric strength: 1500 VAC (between contacts) Electrical life: 200,000 operations at 220V AC, 3A Mechanical life: 50,000,000 operations Maximum operating frequency: 1800 operations/hour (electrical), 18000 operations/hour (mechanical) Environmental Ratings Operating temperature: -25°C to +50°C

(standard); -25°C to +55°C and -30°C to +70°C variants available Storage temperature: -55°C to +70°C Operating humidity: 45% to 85% RH (no condensation) Storage humidity: 45% to 85% RH (no condensation) Physical Specifications Dimensions: 14 mm W × 27.5 mm H × 35.6 mm L Weight: 23–34 g Pin count: 8 Mounting: Socket mount or PCB mount Terminals: Plug-in, quick connect, solder, or PCB terminals Contact material: Gold-plated silver Key Features Low contact resistance (50 mΩ max) ensures minimal voltage drop Dual-pole configuration supports independent circuit switching Extended mechanical life (50 million cycles) reduces maintenance intervals Multiple terminal options accommodate various assembly methods UL recognized, CSA certified, TÜV approved, CE marked Typical Applications General-purpose industrial switching, automation control circuits, panel-mount relay banks, and equipment requiring high operational density with extended service life. Compatibility & Integration The RY2S-U integrates with IDEC RY Series sockets including SY2S-05 and SM2S-05, enabling standardized relay mounting across compatible control systems.

RY2SU Characteristics / Specifications

PARAMETER	VALUE
Model	RY2S-U
Instrument Type	Miniature DPDT control relay
Family	IDEC RY series slim DPDT
Contact Arrangement	DPDT slim
Contact Rating	3 A
UI Resistive	3 A at 240 VAC; 3 A at 30 VDC; 0.2 A at 100 VDC
UI General Use	0.8 A at 240 VAC; 1.5 A at 120 VAC; 3 A at 30 VDC
Maximum Capacity	660 VA AC, 90 W DC
Rated Load 110 Vac	3 A resistive, 1.5 A inductive
Rated Load 220 Vac	3 A resistive, 0.8 A inductive
Rated Load 30 Vdc	3 A resistive, 1.5 A inductive
Contact Material	gold-plated silver
Contact Resistance	50 mOhm maximum
Minimum Load	5 V DC, 10 mA (reference, standard contact)
Ac Coils	6, 12, 24, 110, 120, 220, 240 VAC
Dc Coils	6, 12, 24, 48, 110 VDC
Coil 24 Vac	42 mA at 50 Hz, 37 mA at 60 Hz, 300 ohm (slim DPDT)
Pickup Voltage	80 percent maximum of rated at 20 C
Dropout Voltage	30 percent minimum of rated at 20 C
Continuous Voltage	110 percent of rated
Coil Current Tolerance	plus or minus 15 percent at 20 C
Coil Resistance Tolerance	plus or minus 10 percent at 20 C
Terminal Style	standard plug-in (RY2S-U)
Approvals	UL recognized, CSA certified, TUV 3 A 240 VAC / 30 VDC
Manufacturer	IDEC (Izumi)

PARAMETER	VALUE
Literature	IDEC RY/RM series relays and sockets datasheet, RY2S-U slim DPDT 3 A row

RX2SU Specifications

PARAMETER	VALUE
Applications	Panel and socket logic switching, PLC interposing, and 3 A control circuits using a slim DPDT miniature relay.
Key Features	Slim DPDT 3 A miniature relay
Wide AC and DC coil voltage list	UL/CSA/TUV 3 A class ratings
Technical Specifications	Model: RX2S-U
Notes	From IDEC RX/RM series datasheet RX2S-U slim DPDT 3 A tables. RM2 wide 5 A and RX4 4PDT 5 A figures are siblings, not this slim 3 A part.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	RY2S-U
Instrument Type	Miniature DPDT control relay
Family	IDEC RY series slim DPDT
Contact Arrangement	DPDT slim
Contact Rating	3 A
UL Resistive	3 A at 240 VAC; 3 A at 30 VDC; 0.2 A at 100 VDC
UL General Use	0.8 A at 240 VAC; 1.5 A at 120 VAC; 3 A at 30 VDC
Maximum Capacity	660 VA AC, 90 W DC
Rated Load 110 Vac	3 A resistive, 1.5 A inductive
Rated Load 220 Vac	3 A resistive, 0.8 A inductive
Rated Load 30 Vdc	3 A resistive, 1.5 A inductive
Contact Material	gold-plated silver
Contact Resistance	50 mOhm maximum
Minimum Load	5 V DC, 10 mA (reference, standard contact)
Ac Coils	6, 12, 24, 110, 120, 220, 240 VAC
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Coil 24 Vac	42 mA at 50 Hz, 37 mA at 60 Hz, 300 ohm (slim DPDT)
Pickup Voltage	80 percent maximum of rated at 20 C
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Terminal Style	standard plug-in (RY2S-U)
Approvals	UL recognized, CSA certified, TUV 3 A 240 VAC / 30 VDC
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PARAMETER	VALUE
Literature	IDEC RY/RM series relays and sockets datasheet, RY2S-U slim DPDT 3 A row

Notes

From IDEC RY/RM series datasheet RY2S-U slim DPDT 3 A tables. RM2 wide 5 A and RY4 4PDT 5 A figures are siblings, not this slim 3 A part.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.