



RE-12DC-SPDT

12 VDC Relay



Overview

This relay is designed for use with Distech controllers to convert a signal from their universal outputs to a relay output.

Applications

- Control of a high voltage circuit with a low voltage signal
- Control a high-voltage/current load with a universal output
- Isolation of the controlling circuit from the controlled circuit

Features & Benefits

- Has both NO & NC contacts
- Minimum power consumption allows it to be directly driven by a controller's universal outputs
- Compact design makes efficient use of space
- Acts as a true, dry contact switch for high electrical isolation
- Makes field replacement of the relay easier to increase up time

Model Selection

RE-RT78724	Relay Base
RE-PTML0024	LED Module

Product Specifications - Relay

Contact Data

Arrangement	1 form C (CO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	10A
Limiting making current; max. 4s, duty factor 10%	15A
Breaking capacity	2500VA
Contact material	Silver-nickel 90/10
Frequency of operation; with/without load	3000/72000h ⁻¹
Operate/release time max.	10/8ms

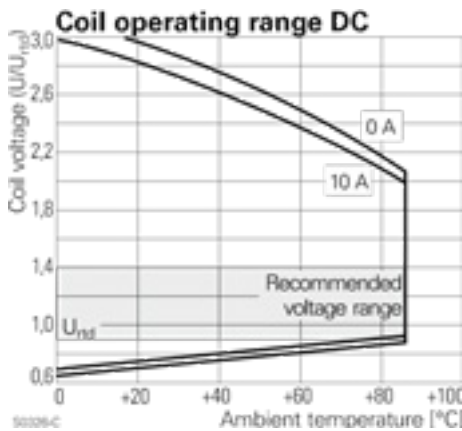
Contact Ratings

Type	UL508, RT174
Contact	C (CO)
Load	10A, 250VAC, gen. purpose, 85°C
Cycles	6x10 ³

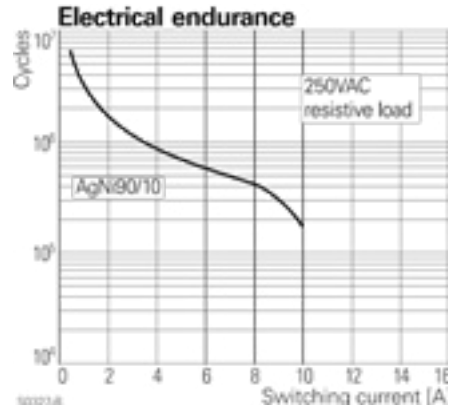
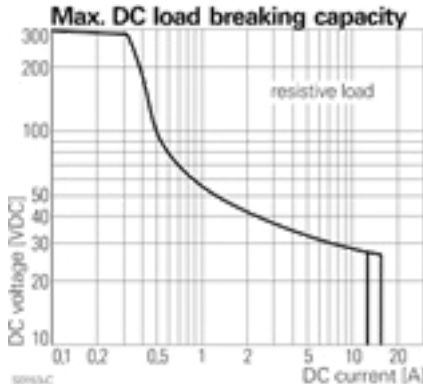
Coil Data¹

Operative range, IEC 61810	2
Coil insulation system according UL	Class F
Rated voltage	12 VDC
Operate voltage	9.0 VDC
Release voltage	1.2 VDC
Coil resistance $\Omega \pm 10\%$	576
Rated coil power	250 mW

1. Figures are given for coil without pre-energization, at ambient temperature +23°C.



Mechanical endurance	>30x10 ⁶ operations
----------------------	--------------------------------



Insulation Data

Initial dielectric strength:

- Between open contacts _____ 1000Vrms
- Between contact and coil _____ 5000Vrms
- Clearance/creepage between contact and coil _____ $\geq 10/10$ mm
- Material group of insulation parts _____ IIIa
- Tracking index of relay base _____ PTI 250V

Other Data

- Ambient temperature _____ -40 to 85°C
- Shock resistance (destructive) _____ 100g
- Terminal type _____ PCB-THT, plug-in
- Weight _____ 14g

Agency Approvals



NR 6106



E22575



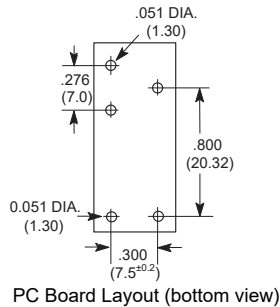
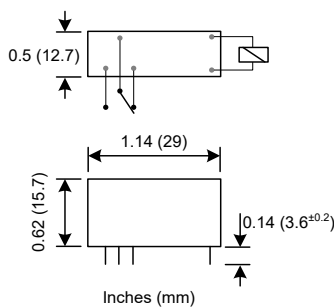
LR15734



Material Compliance

All materials and manufacturing processes comply with: _____ RoHS , REACH

Dimensions



Specifications - Relay Base

Technical Data

Rated voltage / max. switching voltage AC	240 / 400 VAC
Rated current	12 A
Dielectric strength:	
<input type="checkbox"/> coil-contact circuit	5000 Vrms
<input type="checkbox"/> open contact circuit	1000 Vrms
<input type="checkbox"/> adjacent contact circuits	2500 Vrms
Clearance / creepage coil-contact circuit	≥10 / 10 mm
Material group of insulation parts	IIIa
Insulation to IEC 60664-1	Type of insulation:
<input type="checkbox"/> coil-contact circuit	Reinforced
<input type="checkbox"/> open contact circuit	Functional
<input type="checkbox"/> adjacent contact circuit	Functional
Rated insulation voltage	250 v
Pollution degree	2
Rated voltage system	230 / 400 V
Overvoltage category	III

Ambient temperature range

<input type="checkbox"/> for mounting/handling	-20 to +70oC, -4oF to +150oF
<input type="checkbox"/> in operation	-40 to +70oC, -40oF to +150oF
Terminals	screw
Terminal screw torque acc. IEC 61984	0.5 Nm
<input type="checkbox"/> max	0.7 Nm
Wire cross section:	
<input type="checkbox"/> single wire	2 x 2.5 mm ²
<input type="checkbox"/> fine wire	2 x 2.5 mm ²
<input type="checkbox"/> with bootlace crimp (DIN 46228/1)	2 x 1.5 mm ²
Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥0, dense packing
Weight	36g

Agency Approvals



REG.-Nr. 6106 in preparation
RoHS – Directive 2002/95/EC



E135149

Compliant

Specifications subject to change without notice.
Distech Controls, and the Distech Controls logo are trademarks of Distech Controls Inc. All other trademarks are property of their respective owner.
©, Distech Controls Inc., 2015. All rights reserved.