## **RELAYS & CONTACTORS**

### **RELAY IN A BOX**

RIB, RIBT POWER SERIES

#### **DESCRIPTION**

The Relay In A Box (RIB) Power Series controls most BAS, HVAC, low-horsepower motor, and lighting applications. The relays come mounted and prewired in a housing, which saves the installer the time, trouble, and expense of buying separate components (relay, socket, mounting rail, and enclosure) and assembling them on the job or at the shop.

The RIB Power Series has a protruding 1/2" or 3/4" NPT nipple from which all wires exit (except **T Series**). To install, remove a conduit knockout in the equipment, insert the wires and nipple through the hole, tighten the locknut, and connect the wires.

#### RIB Power Series - 20, 30A Relays

The RIB Power Series has relay contacts rated for 20 and 30A. They require modest coil drive current and are used for direct switching and control of heavy electrical circuits, such as large resistive, motor, and lighting loads.

#### RIBT Series - High/Low Voltage Separation

The **RIBT Series** is designed to provide physically separate entrances for connections to the relay input coil and output contacts. Relay contact wires exit the housing through a 1/2" or 3/4" NPT nipple. The cover of the RIBT Series is removable and, with star bushings or 1/2" conduit, the coil drive wires can enter the housing through one of two convenient openings. The coil drive wires are secured to screw terminals within a separate wiring compartment in the RIBT. Most of the RIBs in the Power Series are also available in the T Series.







RIB2401SB

**RIB2401B** 



#### **FEATURES**

- · Convenient and economical to use
- Relay status indicator via LED
- Coil uses low current and accepts a wide range of AC and DC voltages
- Closed/Open/Auto switch option available
- · Nipple- or screw-mountable
- · Compact, gray plastic enclosure
- Color-coded wires for eliminating errors
- · UL listed for UL 916 Energy Management and UL 864 Fire
- · Made in the USA

#### **SPECIFICATIONS - GENERAL**

-n	$\sim$ 1	20	IIIA	CIZO
		0.5	ui e	size
	•			

Life rating (all relays)

Α	2.3"H x 3.2"W x 1.8"D
	(5.84 x 8.13 x 4.57 cm)
В	4"H x 4"W x 1.8"D
	(10.16 x 10.16 x 4.57 cm)

G 2.3"H x 3.2"W x 1.8"D

(5.84 x 8.13 x 4.57 cm)

**Operating temperature** -30° to 140°F (-34° to 60°C) **Humidity** 5% to 95% non-condensing

> 10 million cycles min mechanical

**Relay status** LED, ON - relay activated Housing Plenum rated, NEMA 1 **Frequency** All relays rated for 50/60 Hz

#### Coil pull-in/drop-out (nominal values)

	PULL-IN		DROP-OUT	
COIL DRIVE	DC	AC	DC	AC
24 VAC/VDC	22	18	3.8	3
120 VAC	_	85	_	35
208-277 VAC	_	160	_	60
480 VAC	_	340	_	140

Wire length 16" (40.6 cm)

Agency approvals UL listed, UL 916 Energy

Management, UL 864 Fire,

cUL listed, CSFM

Weight Approx. 1.0 lb (0.45 kg)

Warranty 1 year

# **RELAYS & CONTACTORS**

### **RELAY IN A BOX**



RIB, RIBT POWER SERIES

MODEL	TYPE	COIL DRIVE	SIZE- HUB	OVR SW	CONTAC	LAY T RATINGS	RELAY CONTACT WIRING	RELAY COIL DRIVE DATA
RIB2401B*	1-SPDT	24 VAC/VDC 120 VAC 24 VAC/VDC	G-1/2	_	20A resistive 1 hp 2 hp 20A ballast N.O. 10A ballast N.C.	277 VAC 120 VAC 277 VAC 120/277 VAC 120/277 VAC	(blue), N.C. (yellow) Common	Wiring_ Common - White/Yellow wire 24 VAC/VDC - White/Blue wire 120 VAC - White/Black wire
RIB2402B*	1-SPDT	208 - 277 VAC	G-1/2	_	10A tungsten N.O. 770 VA pilot duty 1110 VA pilot duty	120 VAC 120 VAC 277 VAC	(orange) — N.O.	208-277 VAC - White/Brown wire
RIB2401SB*	1-SPST-NO	24 VAC/VDC 120 VAC	G-1/2	Yes	20A resistive 1 hp 2 hp 20A ballast N.O.	277 VAC 120 VAC 277 VAC 120/277 VAC	(orange) - Closed (orange) - Open O Auto	Input Current 75 mA @ 24 VAC 32 mA @ 24 VD0 42 mA @ 120 VAC
RIB2402SB*	1-SPST-NO	24 VAC/VDC 208 - 277 VAC	G-1/2	Yes	10A ballast N.C. 10A tungsten N.O 770 VA pilot duty 1110 VA pilot duty	120 VAC	For normally closed, add <b>-NC</b> after model number when ordering.	62 ma @ 208/277 VAC
RIB01P	1-DPDT	120 VAC	B-1/2	_	20A resistive	300 VAC		Wiring 120 VAC - White/Black wires
RIB02P	1-DPDT	208-277 VAC	B-1/2	-	20A resistive 15A resistive 1 hp	28 VDC, 15 VDC 600 VAC 120 VAC	(blue) N.C. (yellow) Common	208-277 VAC - White/Brown wires 480 VAC - White/Green wires
RIB04P	1-DPDT	480 VAC	B-1/2	_	2 hp 3 hp 20A ballast 770 VA pilot duty	240-277 VAC 480-600 VAC 277-480 VAC 120 VAC	(gray) N.C.	Input Current 100 mA @ 120-480 VAC
					1,158 VA pilot duty 1,110 VA pilot duty 1,640 VA pilot duty	277 VAC	(purple) Common (brown) N.O.	Wiring 24 VAC White/Yellow wires
RIB24P*	1-DPDT	24 VAC/VDC	G-1/2	_	i,o io vi pilot dali			Input Current 125 mA @ 24 VAC 50 mA @ 24 VD
RIB2401SBC*	1-SPDT	24 VAC/VDC 120 VAC	G-1/2	Yes-2	20A resistive 1 hp 2 hp 20A ballast N.O. 10A ballast N.C. 10A tungsten N.O	277 VAC 120 VAC 277 VAC 120/277 VAC 120/277 VAC 120 VAC	Auto (yellow) Common (blue)	Wiring Common - White/Yellow wire 24 VAC/VDC - White/Blue wire 120 VAC - White/Black wire 208-277 VAC - White/Brown wire
RIB2402SBC*	1-SPDT	24 VAC/VDC 208 - 277 VAC	G-1/2	Yes-2	770 VA pilot duty 1110 VA pilot duty	120 VAC	N.C Closed N.C. (orange)	Input Current 75 mA @ 24 VAC 42 mA @ 120 VAC 32 mA @ 24 VD
RIB24S2*		24 VAC/VDC			20A resistive 1 hp 2 hp 10A tungsten 20A ballast 770 VA pilot duty 1,110 VA pilot duty	277 VAC 120 VAC 240-277 VAC 120 VAC 277-480 VAC 120 VAC / 277 VAC	Double Pole Switch Relay Pole #1 Relay Pole #2	Wiring 24 VAC/VDC White/Yellow wires 120 VAC White/Black wires 208-277 VAC White/Brown wires 400 VAC White/Cassonian
RIB01S2		120 VAC	B-1/2	Yes			(orange) Closed o (brown) (orange) Open o (brown)	
RIB02S2	1-DPST-NO	208-277 VAC	B-1/2	Double Pole			Auto O	480 VAC White/Green wires Input Current 125 mA @ 24 VAC 50 mA @ 24 VD
RIB04S2		480 VAC					For normally closed, add <b>-NC</b> after model number when ordering.	75 mA @ 120 VAC 95 mA @ 208-277 VAC 95 mA @ 480 VAC
RIB243P*	1-3PST-NO	24 VAC/VDC	B-1/2	-	20A resistive 20A resistive	300 VAC 28 VDC	(blue) N.O.	Wiring 24 VAC/VDC - White/Yellow wires
RIB013P	1-3PST-NO	120 VAC	B-1/2	_	15A resistive	600 VAC 120 VAC, 1 PH	(blue)	120 VAC - White/Black wires
RIB023P	1-3PST-NO	208-277 VAC	B-1/2	-	2 hp 240-277 VAC, 1 PH 3 hp 480-600 VAC 1 PH		(yellow) N.O. (yellow)	208-277 VAC - White/Brown wires 480 VAC - White/Green wires
RIB043P	1-3PST-NO	480 VAC	B-1/2	_	5 hp 7.5 hp 20A ballast 1466 VA 2112 VA	240 VAC, 3 PH 480 VAC 3 PH 277-480 VAC 240 VAC, 3 PH 480 VAC, 3 PH	(orange) N.O. (orange) N.O. For normally closed, add -NC after model number when ordering.	Input Current 190 mA @ 24 VAC 140 mA @ 30 VE 140 mA @ 120 VAC 170 mA @ 208-277 VAC 120 mA @ 480 VAC
RIB24P30	1-DPDT	24 VAC/VDC	A-3/4	_	30A resistive 25A resistive 15A resistive 1 hp 2 hp 3 hp 20A ballast 770 VA pilot duty 1,158 VA pilot duty 1,110 VA pilot duty 1,640 VA pilot duty	/ 277 VAC	(blue) N.C. (yellow) Common N.O. (gray) N.C. (purple) Common N.O.	Wiring 24 VAC/VDC - White/Yellow wires Input Current 125 mA @ 24 VAC 50 mA @ 24 VD

#### **ORDERING INFORMATION**

Order by model number

\* Models may be ordered in **RIBT Series** with high/low voltage separation. Contact Kele.

2/1/2010

kele.com

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