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RELAYS & CONTACTORS

FUNCTIONAL DEVICES MODULAR PANEL RELAYS

RIB M SERIES

DESCRIPTION

The Functional Devices RIB M Series modular relay system allows the installer to mount a combination of relays in an attractive metal enclosure. Models are available to control most BAS, HVAC, low-horsepower motors and lighting applications. The relay modules snap into a 4" (10.16 cm) wide plastic track. This system provides a convenient and cost-saving method of mixing and matching relays of different ratings to suit the requirements of the application. Connections to the modules are made by wiring to screw terminals. Input connections can be grouped on one side of the enclosure and output connections on the other to separate high-voltage and low-voltage wires. Plenty of room is provided within the enclosure for wire runs, and the housings can be stacked vertically or horizontally. The relay modules can be snap-track mounted inside the housing as pictured or mounted into an available space in other equipment. The track is available in 2" (5.08 cm) lengths for mounting one module or in 12" (30.5 cm) lengths for mounting several modules.

RIBM Pilot Series - 10A, 15A modular relays

These pilot modular relays have contacts rated up to 15A and are used to control light electrical loads, drive power relays/ contactors or to sense the voltage fed to electrical loads. The pilot modular relays require a low coil drive current and are provided with circuitry to allow powering the relay coil from a wide range of AC or DC voltages.

RIBM Power Series - 30A modular relays

The power modular relays have contacts rated up to 30A. They require modest coil drive current and are used for direct switching and control of heavy electrical circuits such as large resistive, motor, or lighting loads.



FEATURES

TRY KELE'S UL-LISTED PANEL SHOP

- Convenient and economical to use
- Handy, track-mounted modules

enclosure)

- Attractive, stackable metal enclosure
- Relay status indicator via LED
- Coil uses low current and accepts wide range of AC & DC voltages

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- Closed/Open/Auto switch option available
- High density relay packaging
- UL listed enclosure and relay modules

CDE	\sim IE	ICAT	\square	
SPE	СΙΓ	ICAI	IUIV	

01 2011 1071110110		
Frequency	50/60 Hz	
Life Rating	10 million cycles minimum	
	mechanical	
Relay Status	LED, ON - relay activated	
Operating Temperature	-30° to 140°F (-34° to 60°C)	
Operating Humidity	5% to 95% non-condensing	
Dimensions	00	
С	1.75"H x 4"W x 1.25"L	
	(4.45 x 10.16 x 3.18 cm)	F
D	1.75"H x 4"W x 2"L	
	(4.45 x 10.16 x 5.08 cm)	
F	1.75"H x 4"W x 2.45"L	١
40	(4.45 x 10.16 x 6.22 cm)	
H ./8	1.75"D x 2.75"W x 1.25"L	
100	(4.45 x 6.99 x 3.18 cm)	
I	1.75"D x 2.75"W x 1.7"L	
	(4.45 x 6.99 x 4.32 cm)	
J	1.75"D x 4"W x 1.5"L	

(4.45 x 10.16 x 3.85 cm)

1.75"D x 2.75"W x 2.5"L (4.45 x 6.99 x 6.35 cm)

L	1.75"D x 2.75"W x 3.40"L
	(4.45 x 6.99 x 8.64 cm)
MH1000	14.5"H x 7.7"W x 3.9"D
	(36.83 x 19.56 9.91 cm)
MH3500	24.5"H x 10.25"W x 3.9"D
	(62.23 x 26.04 x 9.91 cm)
MH38000	24.5"H x 12.5"W x 6.5"D
	(62.23 x 31.75 x 16.5 cm)
Approvals	UL listed, UL 916 Energy
	Management, UL 864 Fire, cUL
	listed, CSFM. UL FIIe E68805
Warranty	1 year

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

	PULL	IN	DROP-OUT		
COIL DRIVE	DC	AC	DC	AC	
10-30 VAC/VDC	10	9	2.8	2.1	
24 VAC/VDC	22	18	3.8	3	
120 VAC	_	85	_	35	
208-277 VAC	_	160	_	60	

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FUNCTIONAL DEVICES MODULAR PANEL RELAYS RIB M SERIES



SPECIFICA	TIONS - I	PILOT RELA	Y MC	DULI	ES					
MODEL	TYPE	COIL DRIVE	SIZE*	OVR	CONTACT	RATINGS	CONTAC	T WIRING	COIL DRIVE DATA	
RIBM24C			С		15A general use	125 VAC	24C ⊘, NC	24\$	Wiring	
RIBMN24C	1-SPDT		Н	-	10A general use 10A resistive	250 VAC 30 VDC	<u>⊘</u> - ₹ сом	Open O	24 VAC/VDC Current Input	
RIBM24S	4.0007	24 VAC/VDC 50-60 Hz	С		1/2 hp	125/250 VAC 120/240 VAC	*Cut appropriate jumper to	24 mA @ 20 VAC		
RIBMN24S	1-SPST		Н	Yes	470 VA pilot duty		select N.C. or N.O.		44 mA @ 35 VAC 25 mA @ 35 VDC	
RIBMU1C			С	_		120/240/277 VAC 150 VAC, 28 VDC 150 VAC 240/277 VAC 277 VAC 120 VAC N.O. 120 VAC N.C. 120/240 VAC	Relay Without	Override Switch		
RIBMU1SC	1-SPDT	10-30 VAC/VDC	J Yes-	Yes-2	10A resistive		Relay #1	Relay #2		
RIBMNU1C	1	120 VAC 50-60 Hz	I	_	 15A resistive 		⊘¬, NC	(if present) NC .	Wiring	
RIBMU2C	2-SPDT	30-00 HZ	F		15A inductive 480 VA pilot duty		ОТ сом	COM ►	Relay #1 (and #2 if present)	
RIBMH1C	1-SPDT		С	-	480 VA ballast		O T NO	NO -	-14	
RIBMH1SC	1-51 D1	10-30 VAC/VDC	J	Yes-2	600W tungsten 240W tungsten 1/3 hp for N.O.		Relay With Override Switch		either 208-277 VAC	
RIBMNH1C		208-277 VAC	- 1	_			10.00		10-30 VAC/VDC —	
RIBMH2C	2-SPDT	50-60 Hz	F	-	1/6 hp for N.C. 1/4 hp for N.O. 1/8 hp for N.C.	120/240 VAC 277 VAC 277 VAC	Auto Auto N.C Closed Open N.O Closed	Common N.C.	Common —— Current Input 30 mA @ 10 VAC 12 mA @ 10 VDC	
RIBMU1S RIBMNU1S	1-SPST-NO	10-30 VAC/VDC 120 VAC 50-60 Hz	C K	Yes	10A resistive 15A resistive 480 VA pilot duty 480 VA ballast 600W tungsten 240W tungsten 1/3 hp for N.O.	277 VAC 150 VAC 277 VAC 277 VAC 120 VAC N.O. 120 VAC N.C. 120/240 VAC	U1S and H1S **For normally close	ClosedO Open O	32 mA @ 12 VAC	
RIBMU1SM RIBMNU1SM	1-SPST-NO		D L	Yes + Status			contacts, specify NC Auto after model number		50 mA @ 30 VAC	
RIBMH1S RIBMNH1S	1-SPST-NO			Yes			U1SM and H1S	Closed	35 mA @ 208-277 VAC	
RIBMH1SM RIBMNH1SM	1-SPST-NO	- 208-277 VAC 50-60 Hz	D L	Yes+ Status	1/6 hp for N.C. 1/4 hp for N.O. 1/8 hp for N.C.	120/240 VAC 277 VAC 277 VAC	Open Open O Auto	Open O		
* See Specificatio	n on previous i	page for dimension	S.				0.25 A max	NO/VIDO MAX AMO		

SPECIFICAT	IONS - F	POWER RE	LAY	MOD	ULES				
RIBM2401B		24 VAC/VDC	С	-			Relay Without Override Switch	Wiring either - 208-277 VAC	
RIBM2401SBC	1-SPDT	120 VAC 50/60 Hz	F	Yes-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	COM È⊸⊘ NO T⊸⊘ Relay With Override Switch	or - 120 VAC —	
RIBM2402B	1-SPD1	24 VAC/VDC	С	_			Auto Common Manual	10	
RIBM2402SBC		208-277 VAC 50/60 Hz	F	Yes-2	10A tungsten N.O. 770 VA pilot duty 1,110 VA pilot duty	120 VAC 120 VAC 277 VAC	N.C Closed Open N.C N.C. N.C. N.C. N.O Closed	Current Input 45 mA @ 18 VAC 30 mA @ 22 VDC	
RIBM2401SB	1-SPST-NO	24 VAC/VDC 120 VAC	D	Vac	.0.		Closed O Position of yellow jumper	75 mA @ 24 VAC 32 mA @ 24 VDC 42 mA @ 120 VAC 42 mA @ 30 VDC 62 mA @ 208-277 VAC	
RIBM2402SB		24 VAC/VDC 208-277 VAC		D Yes			Auto Q T selects N.O. vs N.C.		
RIBM24ZL	DPST-NO	24 VAC/VDC	F	-	20A resistive 15A resistive 1 hp 2 hp	300 VAC, 28 VDC 600 VAC 120 VAC 240-277 VAC	0 1 NO 1 0 0 1 NO 1 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Wiring 24 VAC/VDC —⊘ COMMON —⊘	
RIBM24ZN	DPDT	24 VAC/VDC	F	-	3 hp 20A ballast 770 VA pilot duty 1,158 VA pilot duty 1,110 VA pilot duty 1,640 VA pilot duty 24ZL and 24ZN: 30A	480-600 VAC 277-480 VAC 120 VAC 240 VAC 277 VAC 480 VAC	OT NC TO	Current Input 100 mA @ 20 VAC 50 mA @ 24 VDC 125 mA @ 24 VAC 70 mA @ 30 VDC	

ACCESSORIES | MH1000 | Screw-cover housing | MH3500 | Hinge-cover housing | MH3800 | Hinge-cover housing | MT212-12 | Relay track, 12" x 2.75" (30.48 x 6.99 cm) | MT212-2 | Relay track, 2" x 2.75" (5.08 x 6.99 cm) | MT4-12 | Relay track, 12" x 4" (30.48 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | Relay track, 2" x 4" (5.08 x 10.16 cm) | MT4-2 | R