# **RH Series Compact Power Relays**

#### **Key features**

- SPDT through 4PDT, 10A contacts
- Compact power type relays
- Miniature power relays with a large capacity
- 10A contact capacity
- Compact size saves space



Conta

SPDT

DPDT

3PDT

4PDT





TÜV



### **Part Number Selection**

		Part N	lumber			
ct	Model	Blade Terminal	PCB Termi- nal	Coil Voltage Code (Standard Stock in bold)		
	Standard	RH1B-U 🗌	RH1V2-U 🗌			
	With Indicator	RH1B-UL	—	AC6V, AC12V, <b>AC24V</b> , AC110V, <b>AC120V</b> ,		
Se Charles	With Check Button	RH1B-UC	—	AC220V, AC240V DC6V, DC12V, DC24V,		
	With Indicator and Check Button	RH1B-ULC	—	DC48V, DC110V		
	Top Bracket Mounting	RH1B-UT	—			
1014 - 11-11	With Diode (DC coil only)	RH1B-UD	RH1V2-UD	DC6V, DC12V, DC24V, DC48V, DC110V		
	With Indicator and Diode (DC coil only)	RH1B-ULD	—	DC12V, DC24V, DC48V, DC110V		
	Standard	RH2B-U 🗌	RH2V2-U 🗌			
	With Indicator	RH2B-UL 🗆	RH2V2-UL 🗌	AC6V, AC12V, <b>AC24V</b> , <b>AC110-120V</b> ,		
The second	With Check Button	RH2B-UC	—	AC220-240V		
	With Indicator and Check Button	RH2B-ULC	—	DC6V, <b>DC12V</b> , <b>DC24V</b> , DC48V, DC100-110V		
	Top Bracket Mounting	RH2B-UT	—			
a dan anti-	With Diode (DC coil only)	RH2B-UD	RH2V2-UD			
	With Indicator and Diode (DC coil only)	RH2B-ULD 🗌	RH2V2-ULD	DC6V, <b>DC12V</b> , <b>DC24V</b> , DC48V, DC100-110V		
	Standard	RH3B-U 🗌	RH3V2-U 🗌			
	With Indicator	RH3B-UL 🗌	RH3V2-UL 🗌	AC6V, AC12V, <b>AC24V</b> , AC110V, <b>AC120V</b> ,		
Start and	With Check Button	RH3B-UC	—	AC220V, AC240V DC6V, DC12V, DC24V,		
	With Indicator and Check Button	RH3B-ULC 🗌	—	DC48V, DC110V		
Sec. 1	Top Bracket Mounting	RH3B-UT 🗌	—			
WILLIAM CONTRACTOR	With Diode (DC coil only)	RH3B-UD 🗌	—			
	With Indicator and Diode (DC coil only)	RH3B-ULD 🗌	—	DC6V, DC12V, DC24V, DC48V, DC110V		
	Standard	RH4B-U 🗌	RH4V2-U 🗌			
	With Indicator	RH4B-UL 🗌	RH4V2-UL 🗌	AC6V, AC12V, <b>AC24V</b> , AC110V, <b>AC120V</b> ,		
	With Check Button	RH4B-UC	—	AC220V, AC240V DC6V, DC12V, DC24V, DC48V		
Contraction of the	With Indicator and Check Button	RH4B-ULC	_	DC110V		
	Top Bracket Mounting	RH4B-UT	_			
	With Diode (DC coil only)	RH4B-UD	RH4V2-UD 🗌			
	With Indicator and Diode (DC coil only)	RH4B-ULD	_	DC6V, DC12V, DC24V, DC48V, DC110V		

Coil Voltage Code

IDEC

Switches & Pilot Lights



# Sockets (for Blade Terminal Models)

		,				
t Ligh	Relays	Standard DIN Rail Mount <sup>1</sup>	Finger-safe DIN Rail Mount 1	Through Panel Mount	PCB Mount	
Pilot	RH1B	SH1B-05	SH1B-05C	SH1B-51	SH1B-62	1
es &	RH2B	SH2B-05	SH2B-05C	SH2B-51	SH2B-62	1. DIN Rail mount socket comes with two
Switches	RH3B	SH3B-05	SH3B-05C	SH3B-51	SH3B-62	horseshoe clips. Do
Sw	RH4B	SH4B-05	SH4B-05C	SH4B-51	SH4B-62	not use unless you plan to insert pullover
Signaling Lights	Hold Dowr	Springs & Clips	A The	No UU		wire spring. Replace- ment horseshoe clip part number is Y778-011.
Sign			D I	For DIN	For Through Panel &	
	Appearance	Item	Relay			

# Hold Down Springs & Clips

Appearance	Item	Relay	For DIN Mount Socket	For Through Panel & PCB Mount Socket	
$\wedge$		RH1B	SY2S-02F1 <sup>2</sup>		2.
$\langle \rangle$	Pullover Wire Spring	RH2B	SY4S-02F1 <sup>2</sup>	SY4S-51F1	
	Pullover Wire Spring	RH3B	SH3B-05F1 <sup>2</sup>	3143-3111	3.
$\sim$		RH4B	SH4B-02F1 <sup>2</sup>		υ.
N.C.S.	Leaf Spring (side latch)	RH1B, RH2B, RH3B, RH4B	SFA-202 <sup>3</sup>	SFA-302 <sup>3</sup>	
1	Leaf Spring (top latch)	RH1B, RH2B, RH3B, RH4B	SFA-101 <sup>3</sup>	SFA-301 <sup>3</sup>	

2. Must use horseshoe clip when mounting in DIN mount socket. Replacement horseshoe clip part number is Y778-011. 3. Two required per relay.

# **AC Coil Ratings**

	Rated Current (mA) ±15% at 20°C								Coil Resistance (Ω)				Operation Characteristics			
Voltage		AC 5	50Hz		AC 60Hz				±10% at 20°C				(against rated values at 20°C)			
(V)	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	Max. Continuous Applied Voltage	Pickup Voltage	Dropout Voltage	
6	170	240	330	387	150	200	280	330	330	9.4	6.4	5.4	110%	80% maximum	30% minimum	
12	86	121	165	196	75	100	140	165	165	39.3	25.3	21.2				
24	42	60.5	81	98	37	50	70	83	83	153	103	84.5				
110	9.6	_	18.1	21.6	8.4	_	15.5	18.2	18.2	_	2,200	1,800				
110-120	_	9.4- 10.8	_	_	_	8.0-9.2	_	_	_	_	_	_				
120	8.6	_	16.4	19.5	7.5	_	14.2	16.5	16.5	_	10,800	7,360				
220	4.7	_	8.8	10.7	4.1	_	7.7	9.1	9.1	_	10,800	7,360				
220-240	_	4.7-5.4	_		_	4.0-4.6			_	18,820	_	_				
240	4.9	_	8.2	9.8	4.3	_	7.1	8.3	8.3	_	12,100	9,120				

### **DC Coil Ratings**

Voltage	Rated Current (mA) ±15% at 20°C Voltage					Coil Resis ±10% a	•	)	Operation Characteristics (against rated values at 20°C)					
(V)	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	Max. Continuous Applied Voltage	Pickup Voltage	Dropout Voltage			
6	128	150	240	250	47	40	25	24		80%		Standard coil volt- ages are in BOLD		
12	64	75	120	125	188	160	100	96			10%			
24	32	36.9	60	62	750	650	400	388	110%				Standard coil volt-	
48	18	18.5	30	31	2,660	2,600	1,600	1,550		maximum	minimum		ages are in <b>BULD</b> .	
100-110	_	8.2-9.0	_	_	_	12,250	_	_						
110	8	_	12.8	15	13,800	_	8,600	7,340						



Relays & Sockets

Timers

Contactors

Terminal Blocks



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