

# RUUH/RUDH

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## Main Feature

1. RUDH Series Relay covers switching capacity by 12A under UL approval in spite of miniature size to comply with user's selection.
2. RUDH is approved by UL, CUL & TÜV safety standard.
3. The employment of suitable plastic materials is applied under high temperature and various chemical solutions.
4. Complete protective construction is designed from dust and soldering flux. If required, plastic sealed type is available for washing procedure.
5. Halogen Free series is available.

## Contact Rating

Load Type	RUDH (DM/DB)	RUDH (D)	RUUH (DM/DB)	RUUH (D)
Rated Load (Resistive)	12A 120 VAC	12A 120 VAC	15A 120VAC	15A 120VAC
	12A 24 VDC	12A 24 VDC	15A 24VDC	15A 24VDC
	10A 250 VAC	10A 250 VAC	-	-
Rated Carrying Current	12A	12A	12A	12A
Max. Allowable Voltage	AC 250V	AC 250V	AC 250V	AC 250V
	DC 110V	DC 110V	DC 110V	DC 110V
Max. Allowable Current	12A	12A	15A	15A
Max. Allowable Power Force	2500VA	2500VA	1800VA	1800VA
	288W	288W	360W	360W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT	SPST	SPDT

## Application

Domestic Appliances, Office Machines, Audio Equipment, Coffeepot, Control Units, etc.

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 15mSec. Max.
- Release Time ..... 5 mSec. Max.
- Dielectric Strength:  
Between Coil & Contact ..... 1,500VAC at 50/60 Hz for one minute.  
Between Contacts ..... 750VAC at 50/60 Hz for one minute.  
2,000VAC (Special spec)
- Surge Strength ..... 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance ..... 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :  
Electrical..... 6 Cycles per Minute.  
Mechanical ..... 300 Cycles per Minute.
- Temperature Range..... -30~70°C
- Humidity Range..... 45~85% RH.

- Coil Temperature Rise .....35°C Max.
- Vibration:  
Endurance..... 10 to 55 Hz dual amplitude width 1.5mm.  
Error Operation ..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock :  
Endurance ..... 1,000 m/S<sup>2</sup>.  
Error Operation ..... 100 m/S<sup>2</sup>.
- Life Expectancy :  
Mechanical ..... 10<sup>7</sup> Operations at No Load condition.  
Electrical ..... 10<sup>5</sup> Operations at Rated Resistive Load.
- Weight.....About 12.2 g.

## Safety Standard & Its File Number

- RUDH:  
UL & C-UL.....E141060  
TÜV.....R09352326
- RUUH:  
CQC.....07001018732

## Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
RUUH RUDH	3	150	20	Abt. 0.45	75% Maximum	5% Minimum	130%
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1,280	Abt. 0.51	80% Max.		
48	13.7	4,500					

## Ordering Information

RUDH - SS - 1 12 D M F

Insulation System:

Nil: Standard Class

F: F Class (for RUDH only)

Contact Form:

Nil: One Form C

M: One Form A

B: One Form B

Coil Type:

D: Standard DC Coil

Coil Voltage:

03: 3V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

Number of Pole:

1: One Pole

Type of Sealing:

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type:

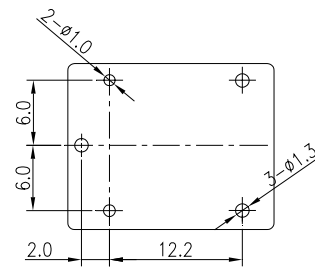
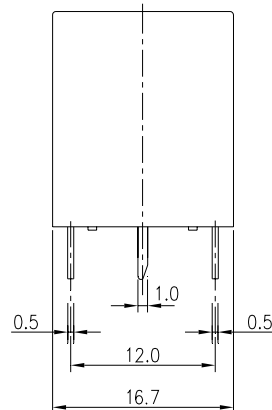
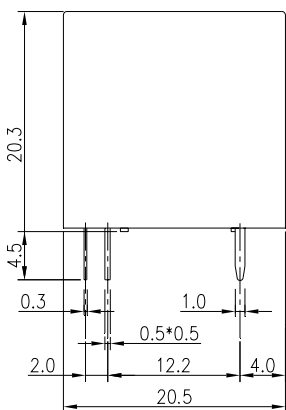
RUDH

RUUH

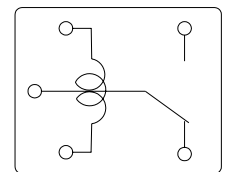
## Classification

Model	RUDH / RUUH		
Contact Form	1C	1A	1B
Flux Proofed Relay	RUDH / RUUH -SS-1□□D	RUDH / RUUH - SS-1□□DM	RUDH / RUUH -SS-1□□DB
Wash Tight Relay	RUDH / RUUH-SH-1□□D	RUDH / RUUH - SH-1□□DM	RUDH / RUUH -SH-1□□DB

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )












P.C.B. Layout



Bottom View

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## Пеле Goodsky и их аналоги

	Название	Управление	Группы	Ток на 1 гр.(max)
	<b>AR / ARW</b> AR-112D1 AR-124D ARW-112D	12v, 24v	1 перекл.	15A
	<b>AZ</b> HLS6-4100H-1, N4100F-2, 842A, HJR-4102E, TRBS	3v, 5v, 9v, 12v, 24v	1 перекл.	<b>1A 120VAC</b> <b>1A 24VDC</b>
	<b>DIR</b> DIR-S4-112A DIR-S4-124A DIR-S8-112A DIR-S8-124A	12v, 24v	1 вкл.	0.5A
	<b>EMI-1P</b> EMI-SS-112D EMI-SS-124D EMI-SS-1110D EMI-SS-1230A NT75, TRIL-1C	5v, 9v, 12v, 24v, 48v, 110v, 220v	1 перекл.	12A
	<b>EMI-2P</b> EMI-SH-209D EMI-SS-209D EMI-SS-212D EMI-SH-224D EMI-SS-224A EMI-SS-224D EMI-SS-2110D EMI-SS-2230A NT75, TRIL-2C	5v, 9v, 12v, 24v, 48v, 110v, 220v	2 перекл.	8A
	<b>EMR</b> EMR-112D-3N EMR-124D-3N 43.41, N68F, G6RL, G6RN, TRA8, TRIF	12v, 24v	1 перекл.	<b>8A 250VAC</b> <b>5A 30VDC</b>
	<b>EZ</b> EZ-SS-112D EZ-SS-124D EZ-SH-1110D EZ-SS-1110D EZ-SS-1230A NT75, TRIL-1C	5v, 9v, 12v, 24v, 48v, 110v, 220v	1 перекл.	16A
	<b>GRL</b> GRL-S-112DH GRL-S-124D TRV4, NVF4-1	12v, 24v	1 перекл.	40A

	<b>GCJ</b> HF46F, ALD, NG5N, G5NB-E, 202, TRGB, TR5N	5v, 12v, 24v	1 вкл.	<b>5A 250VAC</b> <b>5A 30VDC</b>
	<b>GJ</b>	5v, 12v	1 перекл.	<b>3A 250VAC</b> <b>6A 30VDC</b>
	<b>GQ</b> GQ-SS-105LM GQ-SS-112LM	5v, 12v	1 вкл.	<b>5A 250VAC</b> <b>5A 30VDC</b>
	<b>GS</b> GS-SH-205T GS-SH-212T GS-SH-224T HJR1-2C, N4078	3v, 5v, 12v, 24v	2 перекл.	<b>1A 120VAC</b> <b>2A 24VDC</b>
	<b>GU</b> GU-SS-112DM GU-SS-124DM HLS-T90, CMP7, NT90, G8P-xxx-P, 805, 832A, 855AP, HJQ-15F, TR90-xx- S	5v, 12v, 24v, 48v, 220v	1 перекл.	<b>30A 250VAC</b> <b>30A 30VDC</b>
	<b>GU-DF</b> GU-SS-112DMF GU-SS-124DMF HLS-T91-1, CMP8, NT90T, G8P-xxx- TP, 805WP, 832AWP, 855AWP, HJQ- 15F-1, TR91	5v, 12v, 24v, 48v, 220v	1 перекл.	<b>30A 250VAC</b> <b>30A 30VDC</b>
	<b>GU-DFS</b> GU-SS-112DMFS GU-SS-124DMFS HLS-T91-3, NT90TP, G8P-xxx-T, 805W, 832AW, 855AW, HJQ-15F-3, TR91F	5v, 12v, 24v, 48v	1 перекл.	<b>30A 250VAC</b> <b>30A 30VDC</b>
	<b>GU-DQ</b> GU-SS-112DMQ GU-SS-124DMQ CMP8-S, HLS-T91-2, NT90T-x-L, 805WP-xxxx-x1, 832AWP-xxxx-x1, 855AWP-xxxx-x1, HJQ-15F-2	5v, 12v, 24v, 48v	1 перекл.	<b>30A 250VAC</b> <b>30A 30VDC</b>
	<b>GSR</b> GSR-105F	5v	1 вкл.	1A
	<b>JE</b>			

	JE-112D JE-124D JE-148D	12v, 24v, 48v	1 перекл.	5A
	<b>JQ</b> JQ-SS-112D JZC-33F	12v	1 перекл.	5A
	<b>JM</b> HLS-T78, NT78, G8QN, 895, TRKM, TR81	5v, 12v, 24v	1 перекл.	<b>10A</b> 14VDC
	<b>JM-2P</b> JM-SH-212LM	24v	2 перекл.	25A
	<b>LR</b> LR-SS-112D LR-SS-112DM LR-SS-124D LR-SS-124DM LR-SS-148DM 34.51, 882	12v, 24, 48v	1 перекл.	<b>8A</b> 277VAC <b>8A</b> 30VDC
	<b>MI-1P / MIH</b> TRA1, JQX-141FF	3v, 5v, 9v, 12v, 24, 48v	1 перекл.	10A / 16A
	<b>MI-2P</b> MI-SH-205L MI-SH-212L MI-SH-224L TRA3, JQX-141FF	5v, 12v, 24	2 перекл.	5A
	<b>RE-2P</b> RE-202ALTU RE-202DLTU JZX-18FF, HJQ-22F	12v	2 перекл.	5A
	<b>RE-4P</b> RE-402ALTU RE-402DLTU RE-403ALTU RE-403AT RE-403DLTU RE-403DXTU RE-405AL			

	<p>RE-405ALTU RE-405DLTU RE-405DP RE-407ALTU RE-407AT RE-407DLTU</p> <p>JZX-18FF, HJQ-22F</p>	12v, 24v, 110v, 220v	4 перекл.	5A
	<p><b>RET-1P</b></p> <p>HLS-13F-1, JQX-13F-1C, LY1, SCLA, HJQ-13F-1C, TRL-1C</p>	12v, 24v, 220v	1 перекл.	<b>15A 250VAC</b> <b>15A 30VDC</b>
	<p><b>RET-2P</b></p> <p>RET-203DL RET-207AL</p> <p>56.x2, HLS-13F-2, JQX-13F-2C, LY2, RY2, SCL, HJQ-13F-2C, TRL-2C</p>	12v, 24v, 220v	2 перекл.	<b>10A 250VAC</b> <b>10A 30VDC</b>
	<p><b>RET-3P</b></p> <p>HLS-13F-3, JQX-13F-3C, LY3</p>	12v, 24v, 220v	3 перекл.	<b>10A 250VAC</b> <b>10A 30VDC</b>
	<p><b>RET-4P</b></p> <p>RET-403DL RET-407A RET-407AL</p> <p>56.x4, HLS-13F-4, JQX-13F-4C, LY4</p>	12v, 24v, 220v	4 перекл.	<b>10A 250VAC</b> <b>10A 30VDC</b>
	<p><b>RK-3P</b></p> <p>RK-303A RK-303ALT RK-303DLT RK-305ALT RK-305DLT RK-307ALT</p>	24v, 110v, 220v	3 перекл.	10A
	<p><b>RP / RPT-2P</b></p> <p>RPT-207ASL</p>	220v	2 перекл.	25A
	<p><b>RP / RPT-3P</b></p> <p>RPT-303DSL RPT-307ASL</p>	24v, 220v	3 перекл.	15A
	<p><b>RW / RWH</b></p> <p>RWH-SH-105D RWH-SH-112D RWH-SH-124D</p>	5v, 12v, 24v, 48v	1 перекл.	15A





	<b>RWH-SH-148D</b> HJR-3FF, JZC-22F			
	<b>SIR</b> <b>SIR-S4-124A</b>	24v	1 вкл.	0,5A
	<b>ST</b> <b>ST-SS-124D</b> TR5V, JRC-23F	24v	1 перекл.	2A
	<b>UA</b> HLS6-4100H, N4100, G2E, 842, HJR-4102, TRB	5v, 12v, 24v	1 перекл.	<b>3A 120VAC</b> <b>3A 24VDC</b>

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Твёрдотельные, реле, каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, даташит,

HDH		однофазное	80A, 80A, 300A, 120A	4E, 440 V AC	Напряжение 3...32 V DC	2D3	Тристор (SCR)	<p>QR код</p> 
HT		трёхфазное	50A, 25A, 40A, 60A, 80A	4E, 440 V AC	Напряжение 0E...210 V AC	2A2	Синистор (TRIAC)	
		трёхфазное	30A, 25A, 45A, 60A, 80A, 300A, 120A	4E, 440 V AC	Напряжение 3...32 V DC	2D3	Синистор (TRIAC)	
BDH		однофазное	300A, 120A, 150A, 200A, 250A	4E, 440 V AC	Напряжение 3...32 V DC	2D3	Тристор (SCR)	