R2M / RY2 / RUC
Industrial Electromagnetic Relays

E105728

- Relays of general application
- For plug-in sockets, 35 mm rail mount or on panel mounting
- Cadmium-free contacts
- R2M and RUC also for PCB and soldering connections
- AC and DC coils available

	R2M	RY2	RUC
Contact Data			
Number and type of contacts	**DPDT**	**DPDT**	**DPDT. 3PDT. DPST. 3PST**
Contact material	AgNi*	AgNi*	AgNi*
Rated / max. switching voltage AC	250 V / 250 V	250 V / 440 V	400 V / 440 V
Min. switching voltage	5 V	5 V	5 V
Rated load AC1	5 A / 250 V AC	12 A / 250 V AC	16 A / 250 V AC or 10 A / 400 V AC
DC1	5 A / 24 V DC	12 A / 30 V DC	16 A / 24 V DC (see Fig. 3.3)
Min. switching current	5 mA	5 mA	5 mA
Max. inrush current		20 A	40 A
Rated current	**5A**	**12A**	**16A**
Max. breaking capacity AC1	1250 VA	3000 VA	4000 VA
Min. breaking capacity	0.3 W	0.3 W	0.3 W
Contact resistance	≤ 100 mΩ	≤ 100 mΩ	≤ 100 mΩ
Max. operating frequency			
• at rated load AC1	1200 cycles/hour	1200 cycles/hour	1200 cycles/hour
• no load	36000 cycles/hour	18000 cycles/hour	12000 cycles/hour
Coil Data			
Rated voltage 50/60 Hz AC	6 ... 240 V	6 ... 240 V	6 ... 240 V
DC	6 ... 110 V	5 ... 220 V	6 ... 220 V
Must release voltage	≥ 0.05 U_n	AC: ≥ 0.2 U_n; DC: ≥ 0.1 U_n	AC: ≥ 0.15 U_n; DC: ≥ 0.1 U_n
Operating range of supply voltage	see page 62	see page 62	see page 62
Rated power consumption AC	1.2 VA	1.6 VA	2.8 VA 50 Hz; 2.5 VA 60 Hz
DC	0.9 W	0.9 W	1.5 W; 1.7 W with contact gap ≥ 3 mm
Insulation			
Insulation rated voltage	250 V AC	250 V AC	400 V AC
Rated surge voltage	2500 V 1.2 / 50 µs	4000 V 1.2 / 50 µs	4000 V 1.2 / 50 µs
Overvoltage category	II	III	III
Insulation pollution degree	3	3	3
Dielectric strength			
between coil and contacts	2000 V AC type of insulation: basic	2500 V AC type of insulation: basic	2500 V AC type of insulation: basic
• contact clearance	1000 V AC type of clearance: micro-disconnection	1000 V AC type of clearance: micro-disconnection	1500 V AC type of clearance: micro-disconnection 2500 V AC with contact gap ≥ 3 mm. type of clearance: full-disconnection
• pole - pole	2000 V AC type of insulation: basic	2500 V AC type of insulation: basic	2500 V AC type of insulation: basic
Contact - coil distance			
• clearance	≥ 3 mm	≥ 2.6 mm	≥ 5 mm
• creepage	≥ 4 mm	≥ 4 mm	≥ 8 mm
General data			
Operating / release time (typical values)	AC: 8 ms / 7 ms; DC: 10 ms / 3 ms	15 ms / 10 ms	20 ms / 15 ms
Electrical life			
• resistive AC1	> 2 x 10^5; 5 A. 250 V AC	> 10^5; 12 A. 250 V AC	> 10^5; 16 A. 250 V AC; > 10^5; 10 A. 400 V AC
• cosφ	see Fig. 2.1	see Fig. 2.2	see Fig. 2.3
Mechanical life (cycles)	> 10^7	> 10^7	> 10^7
Motor load according to UL 508	-	-	DPDT: 1/3 HP 120 V AC. single-phase motor 1/2 HP 240 V AC. single-phase motor
	-	-	3PDT: 1/3 HP 120 V AC. single-phase motor 1/2 HP 240 V AC. single-phase motor
	-	-	3PDT: 1/2 HP 240 V AC. three-phase motor
Dimensions (L x W x H)	27.5 x 14 x 32.9 mm	27.5 x 21.1 x 34.5 mm	36.1 x 38.6 x 45.5 mm
Weight	22 g	35 g	80 g
Ambient temperature			
• storage	-40...+70 °C	-40...+70 °C	-40...+85 °C
• operating	-40...+55 °C	-40...+55 °C	AC: -40...+55 °C 3PDT. 3PST (NO) / 16 A (+70 °C DPDT. DPST (NO) / 16 A) DC: -40...+55 °C 3PDT. 3PST (NO) / 16 A (+70 °C 3PDT. 3PST (NO) / 10 A; DPDT. DPST (NO) / 16 A)
Cover protection category	IP 40 PN-EN 60529	IP 40 PN-EN 60529	IP 00 PN-EN 60529
Shock resistance	10 g	10 g	10 g
Vibration resistance	5 g 10...150 Hz	5 g 15...150 Hz	5 g 10...150 Hz
Solder bath temperature	max. 270 °C	-	max. 270 °C
Soldering time	max. 5 s	-	max. 5 s

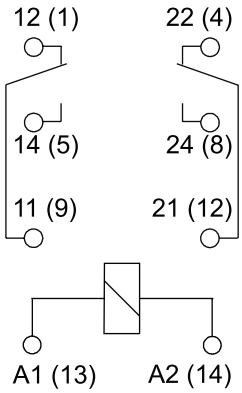
* Other contact materials (eg. gold plated) available, contact Altech Corp.

DATA SUBJECT TO CHANGE WITHOUT NOTICE

R2M

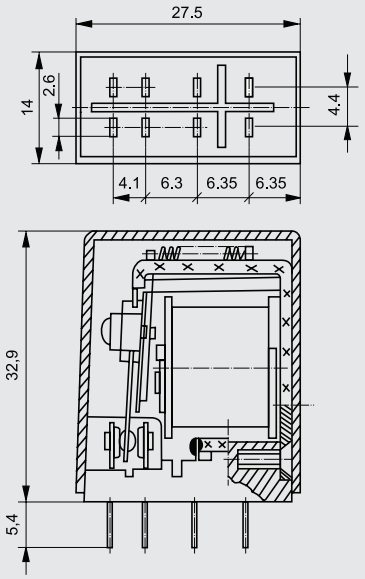
E105728

CONNECTION DIAGRAM



DPDT

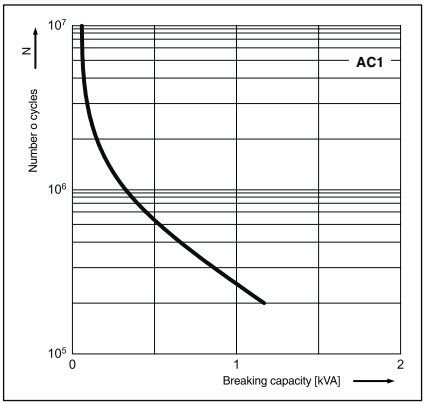
DIMENSIONS



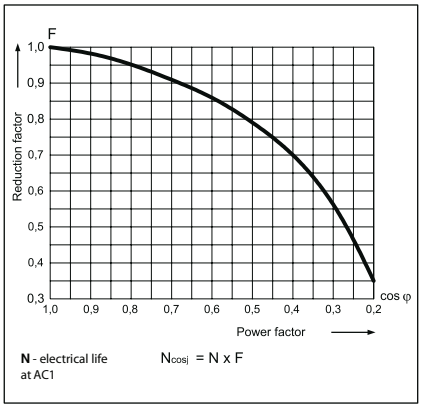
Plug-In Version

LOAD CHARTS

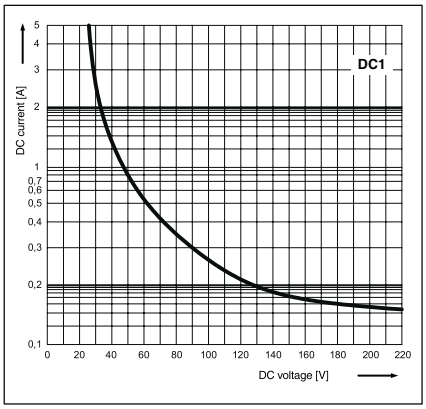
Electrical life at AC resistive load. Switching frequency: 1200 cycles/hour Fig. 1.1



Electrical life reduction factor at AC inductive load Fig. 2.1



Max. DC resistive load breaking capacity Fig. 3.1

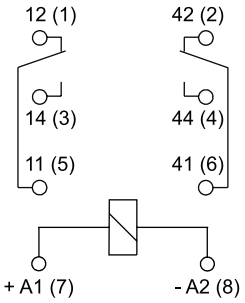


DATA SUBJECT TO CHANGE WITHOUT NOTICE

RY2

E105728

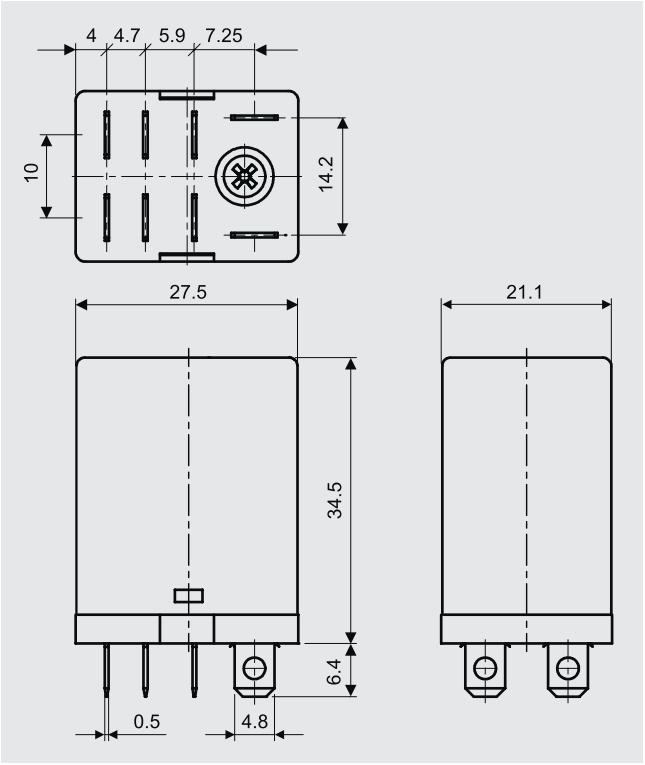
CONNECTION DIAGRAM



DPDT

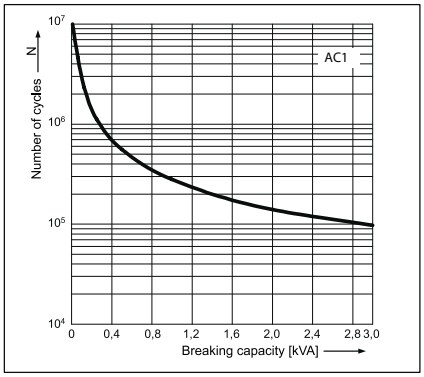
Note : the indicated polarity of the supply refers to the relays with extra equipment D - surge suppression element (diode) - for DC coils only.

DIMENSIONS

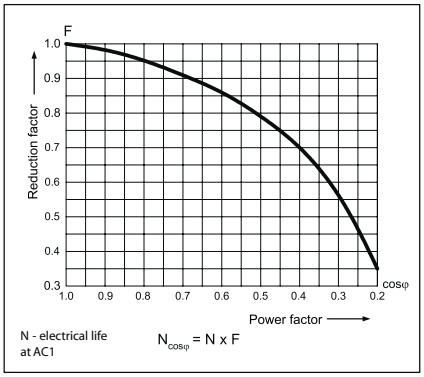


LOAD CHARTS

Electrical life at AC resistive load. Switching frequency: 1 200 cycles/hour Fig. 1.2



Electrical life reduction factor at AC inductive load Fig. 2.2

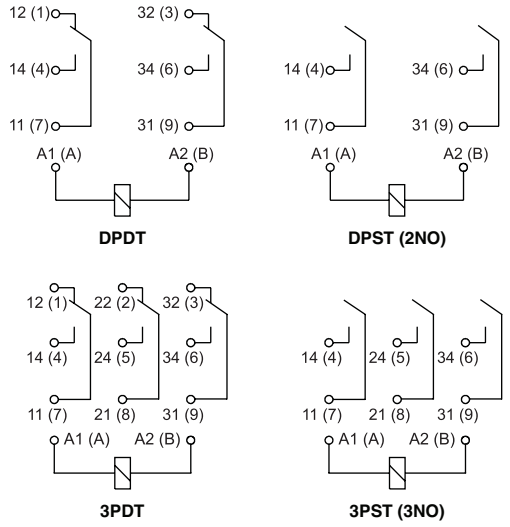


DATA SUBJECT TO CHANGE WITHOUT NOTICE

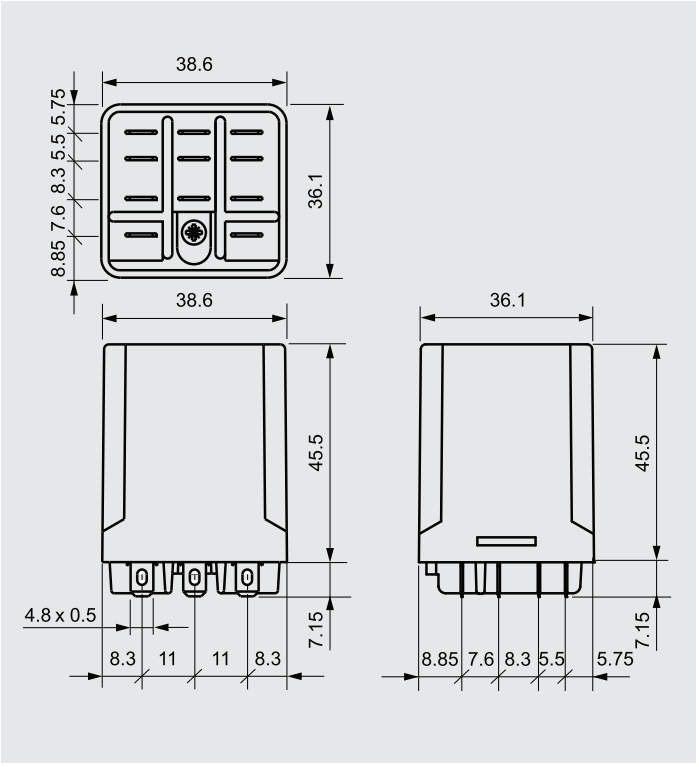
RUC

E105728

CONNECTION DIAGRAM

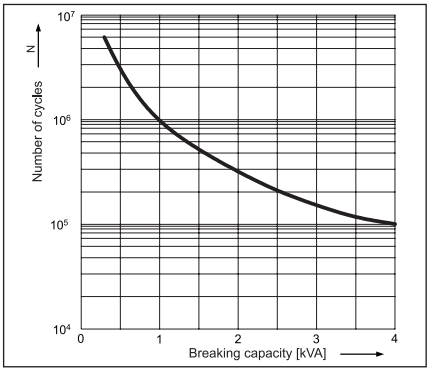


DIMENSIONS

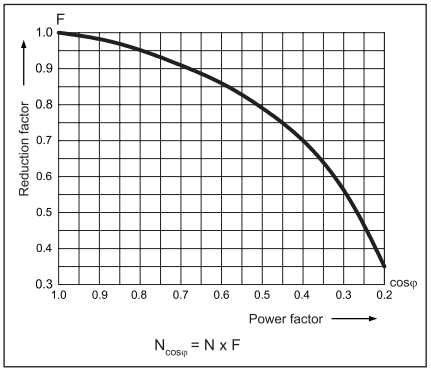


LOAD CHARTS

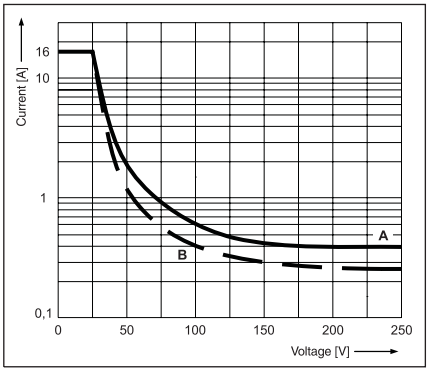
Electrical life at AC resistive load.
Switching frequency: 1200 cycles/hour Fig. 1



Electrical life reduction factor at AC inductive load Fig. 2



Max. DC breaking capacity
A - resistive load DC1
B - inductive load L/R = 40 ms Fig. 3



DATA SUBJECT TO CHANGE WITHOUT NOTICE

R2M DPDT AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)
R2M-2012-23-1012	12	DC	188	9.6	13.2
► **R2M-2012-23-1024**	24	DC	750	19.2	26.4
R2M-2012-23-1110	110	DC	13480	88.0	121.0
► **R2M-2012-23-5120**	120	AC 50/60Hz	6390	96.0	132.0
R2M-2012-23-5230	230	AC 50/60Hz	21470	184.0	253.0

RY2 DPDT AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* L	Options* D
► **RY2-1012-26-1012**	12	DC	160	9.6	13.2	x		
RY2-1012-26-1012-L	12	DC	160	9.6	13.2		x	
RY2-1012-26-1012-D	12	DC	160	9.6	13.2			x
RY2-1012-26-1012-LD	12	DC	160	9.6	13.2		x	x
► **RY2-1012-26-1024**	24	DC	640	19.2	26.4	x		
► **RY2-1012-26-1024-L**	24	DC	640	19.2	26.4		x	
RY2-1012-26-1024-D	24	DC	640	19.2	26.4			x
RY2-1012-26-1024-LD	24	DC	640	19.2	26.4		x	x
RY2-1012-26-1110	110	DC	13600	88.0	121.0	x		
RY2-1012-26-1110-L	110	DC	13600	88.0	121.0		x	
RY2-1012-26-1110-D	110	DC	13600	88.0	121.0			x
RY2-1012-26-1110-LD	110	DC	13600	88.0	121.0		x	x
RY2-1012-26-5024	24	AC 50/60Hz	158	19.2	26.4	x		
► **RY2-1012-26-5024-L**	24	AC 50/60Hz	158	19.2	26.4		x	
RY2-1012-26-5024-D	24	AC 50/60Hz	158	19.2	26.4			x
RY2-1012-26-5024-LD	24	AC 50/60Hz	158	19.2	26.4		x	x
► **RY2-1012-26-5120**	120	AC 50/60Hz	3770	96.0	132.0	x		
► **RY2-1012-26-5120-L**	120	AC 50/60Hz	3770	96.0	132.0		x	
RY2-1012-26-5120-D	120	AC 50/60Hz	3770	96.0	132.0			x
RY2-1012-26-5120-LD	120	AC 50/60Hz	3770	96.0	132.0		x	x
RY2-1012-26-5230	230	AC 50/60Hz	16100	184.0	253.0	x		
► **RY2-1012-26-5230-L**	230	AC 50/60Hz	16100	184.0	253.0		x	
RY2-1012-26-5230-D	230	AC 50/60Hz	16100	184.0	253.0			x
RY2-1012-26-5230-LD	230	AC 50/60Hz	16100	184.0	253.0		x	x

RUC DPDT AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
► **RUC-2012-26-1012**	12	DC	110	9.6	13.2	x		
RUC-2012-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2012-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2012-26-1012-KL	12	DC	110	9.6	13.2		x	x
► **RUC-2012-26-1024**	24	DC	430	19.2	26.4	x		
RUC-2012-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2012-26-1024-L	24	DC	430	19.2	26.4			x
► **RUC-2012-26-1024-KL**	24	DC	430	19.2	26.4		x	x
RUC-2012-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2012-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2012-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2012-26-1110-KL	110	DC	9200	88.0	121.0		x	x
► **RUC-2012-26-5120**	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2012-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2012-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
► **RUC-2012-26-5120-KL**	120	AC 50/60Hz	1910	96.0	132.0		x	x
RUC-2012-26-5230	230	AC 50/60Hz	7080	184.0	253.0z	x		
RUC-2012-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2012-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
► **RUC-2012-26-5230-KL**	230	AC 50/60Hz	7080	184.0	253.0		x	x

– = without additional features
K = with test button without block function;
L = with light indicator (LED)
D = with surge suppression element (diode)
* other options available upon request

► **BOLD - Regular stocked items.**

DATA SUBJECT TO CHANGE WITHOUT NOTICE

RUC 3PDT AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
►**RUC-2013-26-1012**	12	DC	110	9.6	13.2	x		
RUC-2013-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2013-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2013-26-1012-KL	12	DC	110	9.6	13.2		x	x
►**RUC-2013-26-1024**	24	DC	430	19.2	26.4	x		
RUC-2013-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2013-26-1024-L	24	DC	430	19.2	26.4			x
►**RUC-2013-26-1024-KL**	24	DC	430	19.2	26.4		x	x
RUC-2013-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2013-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2013-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2013-26-1110-KL	110	DC	9200	88.0	121.0		x	x
►**RUC-2013-26-5120**	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2013-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2013-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
►**RUC-2013-26-5120-KL**	120	AC 50/60Hz	1910	96.0	132.0		x	x
►**RUC-2013-26-5230**	230	AC 50/60Hz	7080	184.0	253.0	x		
RUC-2013-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2013-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
RUC-2013-26-5230-KL	230	AC 50/60Hz	7080	184.0	253.0		x	x

RUC DPST(2NO) AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
RUC-2022-26-1012	12	DC	110	9.6	13.2	x		
RUC-2022-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2022-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2022-26-1012-KL	12	DC	110	9.6	13.2		x	x
RUC-2022-26-1024	24	DC	430	19.2	26.4	x		
RUC-2022-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2022-26-1024-L	24	DC	430	19.2	26.4			x
RUC-2022-26-1024-KL	24	DC	430	19.2	26.4		x	x
RUC-2022-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2022-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2022-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2022-26-1110-KL	110	DC	9200	88.0	121.0		x	x
RUC-2022-26-5120	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2022-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2022-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
RUC-2022-26-5120-KL	120	AC 50/60Hz	1910	96.0	132.0		x	x
RUC-2022-26-5230	230	AC 50/60Hz	7080	184.0	253.0	x		
RUC-2022-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2022-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
RUC-2022-26-5230-KL	230	AC 50/60Hz	7080	184.0	253.0		x	x

RUC 3PST(3NO) AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
RUC-2023-26-1012	12	DC	110	9.6	13.2	x		
RUC-2023-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2023-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2023-26-1012-KL	12	DC	110	9.6	13.2		x	x
RUC-2023-26-1024	24	DC	430	19.2	26.4	x		
RUC-2023-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2023-26-1024-L	24	DC	430	19.2	26.4			x
RUC-2023-26-1024-KL	24	DC	430	19.2	26.4		x	x
RUC-2023-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2023-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2023-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2023-26-1110-KL	110	DC	9200	88.0	121.0		x	x
RUC-2023-26-5120	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2023-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2023-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
RUC-2023-26-5120-KL	120	AC 50/60Hz	1910	96.0	132.0		x	x
RUC-2023-26-5230	230	AC 50/60Hz	7080	184.0	253.0	x		
RUC-2023-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2023-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
RUC-2023-26-5230-KL	230	AC 50/60Hz	7080	184.0	253.0		x	x

– = without additional features; **K** = with test button without block function; **L** = with light indicator (LED)
* other options available upon request

► **BOLD** - **Regular stocked items.**

DATA SUBJECT TO CHANGE WITHOUT NOTICE

RUC DPST(2NO) contact gap ≥ 3mm AC 50/60Hz & DC coil

Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
RUC-2052-26-1012	12	DC	110	9.6	13.2	x		
RUC-2052-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2052-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2052-26-1012-KL	12	DC	110	9.6	13.2		x	x
RUC-2052-26-1024	24	DC	430	19.2	26.4	x		
RUC-2052-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2052-26-1024-L	24	DC	430	19.2	26.4			x
RUC-2052-26-1024-KL	24	DC	430	19.2	26.4		x	x
RUC-2052-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2052-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2052-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2052-26-1110-KL	110	DC	9200	88.0	121.0		x	x
RUC-2052-26-5120	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2052-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2052-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
RUC-2052-26-5120-KL	120	AC 50/60Hz	1910	96.0	132.0		x	x
RUC-2052-26-5230	230	AC 50/60Hz	7080	184.0	253.0	x		
RUC-2052-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2052-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
RUC-2052-26-5230-KL	230	AC 50/60Hz	7080	184.0	253.0		x	x

RUC 3PST(3NO) contact gap ≥ 3mm AC 50/60Hz & DC coil

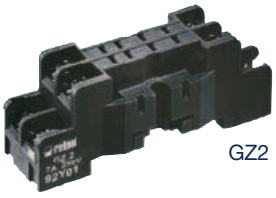
Part Number	Coil Voltage (V)	Coil Type	Coil resistance at 20 °C in Ω	Coil operating range min. (at 20°C)	Coil operating range max. (at 55°C)	Options* –	Options* K	Options* L
RUC-2053-26-1012	12	DC	110	9.6	13.2	x		
RUC-2053-26-1012-K	12	DC	110	9.6	13.2		x	
RUC-2053-26-1012-L	12	DC	110	9.6	13.2			x
RUC-2053-26-1012-KL	12	DC	110	9.6	13.2		x	x
RUC-2053-26-1024	24	DC	430	19.2	26.4	x		
RUC-2053-26-1024-K	24	DC	430	19.2	26.4		x	
RUC-2053-26-1024-L	24	DC	430	19.2	26.4			x
RUC-2053-26-1024-KL	24	DC	430	19.2	26.4		x	x
RUC-2053-26-1110	110	DC	9200	88.0	121.0	x		
RUC-2053-26-1110-K	110	DC	9200	88.0	121.0		x	
RUC-2053-26-1110-L	110	DC	9200	88.0	121.0			x
RUC-2053-26-1110-KL	110	DC	9200	88.0	121.0		x	x
RUC-2053-26-5120	120	AC 50/60Hz	1910	96.0	132.0	x		
RUC-2053-26-5120-K	120	AC 50/60Hz	1910	96.0	132.0		x	
RUC-2053-26-5120-L	120	AC 50/60Hz	1910	96.0	132.0			x
RUC-2053-26-5120-KL	120	AC 50/60Hz	1910	96.0	132.0		x	x
RUC-2053-26-5230	230	AC 50/60Hz	7080	184.0	253.0	x		
RUC-2053-26-5230-K	230	AC 50/60Hz	7080	184.0	253.0		x	
RUC-2053-26-5230-L	230	AC 50/60Hz	7080	184.0	253.0			x
RUC-2053-26-5230-KL	230	AC 50/60Hz	7080	184.0	253.0		x	x

– = without additional features
K = with test button without block function
L = with light indicator (LED)
* Other options available upon request

DATA SUBJECT TO CHANGE WITHOUT NOTICE

GZ2 (for R2M)

Screw terminals
Max. tightening moment
for the terminal: 0.7 Nm
35 mm rail mount
acc. to PN-EN 60715
or on panel mounting
65.2 x 20 x 25 mm
Two poles
7 A, 250 V AC

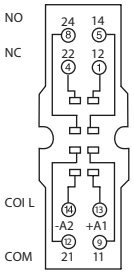


GZ2

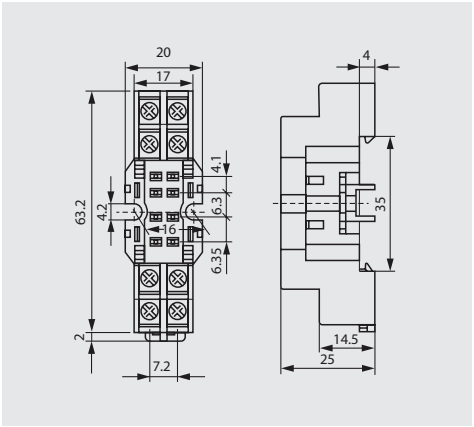
GZ2 1060

GZ2 1111

CONNECTION DIAGRAM



DIMENSIONS

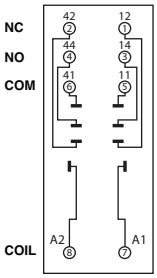


GZY2G (for RY2)

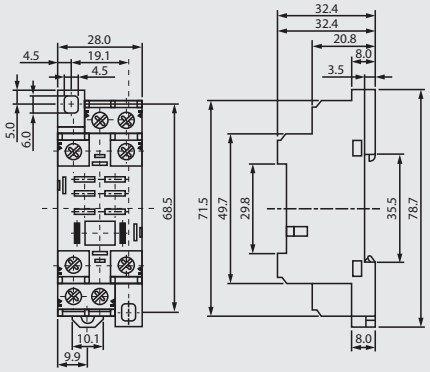
Screw terminals
Max. tightening moment
for the terminal: 0.7 Nm
35 mm rail mount
acc. to PN-EN 60715
or on panel mounting
78.7 x 28 x 32.4 mm
Two poles
12 A, 250 V AC

GZY2G

CONNECTION DIAGRAM

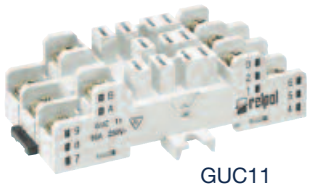


DIMENSIONS



GUC11 (for RUC)

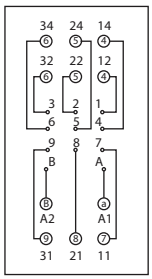
Screw terminals
Max. tightening moment
for the terminal: 0.7 Nm
35 mm rail mount
acc. to PN-EN 60715
or on panel mounting
82 x 42.2 x 26.5 mm
Three poles
16 A, 250 V AC



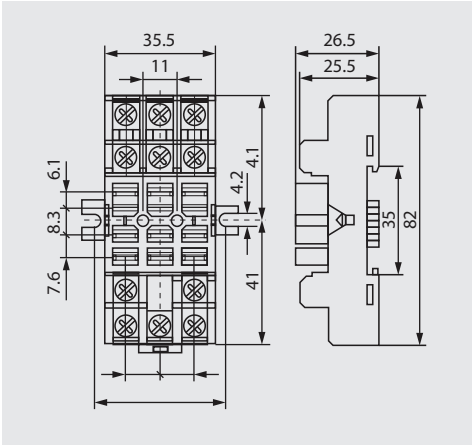
GUC11

MBA

CONNECTION DIAGRAM



DIMENSIONS



All accessories are sold separately.

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LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
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- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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