INDUSTRIAL RELAYS

Industrial Electromagnetic Relays

Industrial electromagnetic relays are used mainly in industrial and power automation applications, in signaling controls, safety and protection systems and control and electric drives systems.

Features:

- DPDT, 3PDT and 4PDT contact configuration
- DC Coil voltages from 5VDC to 220V DC
- AC coil voltages from 6VAC to 240V AC 50/60 Hz
- Din Rail Plug in Socket are standard
- Rated load current: 5A/250V AC to 16A/250V AC rating
  5A/24V DC to 16A/24VDC DC1 rating
- Test button with (K) or without block function (W)
- Built in LED light indicator (L)
- Surge suppression element with diode (D) or varistor (V)
- Approved for railroad applications (DE)
- Silver Nickel (AgNi) cadmium free contact material
- UL and CSA recognized relays
- ROHS2 and REACH compliance

Miniature Electromagnetic Relays

Miniature electromagnetic relays are used in many interface applications, standard automation projects, lighting control systems, emergency lighting applications, building application projects, food processing equipment control and many other electrical system applications.

Features:

- Standard SPDT, DPDT contact configuration
- DC Coil voltages from 3VDC to 110V DC
- AC coil voltages from 12VAC to 240V AC 50/60 Hz
- PCB mounting with socket or direct PCB solder
- Din Rail Plug in Socket are standard
- Rated load current: 8A/250V AC (DPDT) or 16A/250V AC (SPDT) rating;
  8A/24V DC (DPDT) or 16A/24VDC (SPDT) DC1 rating
- Silver Nickel (AgNi) cadmium free contact material
- UL and CSA recognized relays
- ROHS2 and REACH compliance

Slimline Interface Relays

Slimline interface relays are used for PLC system and industrial automation applications, panel builders, machinery builders, time relays, office equipment and other applications that require a high switching capability in a small space.

Features:

- Standard SPDT contact configuration
- Standard 5 mm width
- DC Coil voltages from 5VDC to 60V DC
- Vertical or Horizontal configuration
- Sealed for Soldering and cleaning
- Can be used with Din rail socket or PCB mountable
- Rated load current
- 6A / 250V AC or 0.05A / 30V AC gold plated) rating
- 6A / 24V DC or 0.05A / 36V DC gold plated) rating
- 4A max for Solid state relays
- Silver Tin Oxide (AgSnO2) cadmium free contact material
- Gold plated contact (AgSnO2/Au 3µm) available
- UL recognized
- ROHS2 and REACH compliance

Subminiature Electromagnetic and Solid State Modules

Subminiature electromagnetic relays are used for PLC systems and industrial automation applications, panel builders, equipment builders and other applications that require a high switching capability in a small space. The Altech slim line interface relays can be used as a universal interface between the controller and the actuator to switch loads between 1 mA and 6A. They are available with electromechanical contacts or solid state configuration. Installation time is greatly reduced when a pre-assembled relays and sockets combination is used. Replacement relays and sockets are available from stock. Additional accessories include colored coded jumpers, spacers and markers (unmarked or marked based on the customer specification) for identification purposes.

Features:

- Standard SPDT contact configuration
- Space-saving 6.2 mm width
- Only 85 mm in height from DIN rail
- DC Coil voltages from 5VDC to 110V DC
- AC coil voltages from 6VAC to 240V AC 50/60 Hz
- Pre-assembled relay and DIN mount socket
- Screw clamp or Spring clamp terminals
- Universal AC/DC socket with built-in surge suppression and green LED
- Rated load current
- 6A / 250V AC or 0.05A / 30V AC gold plated) rating
- 6A / 24V DC or 0.05A / 36V DC gold plated) rating
- 4A max for Solid state relays
- Silver Tin Oxide (AgSnO2) cadmium free contact material
- Gold plated contact (AgSnO2/Au 3µm) available
- UL recognized
- ROHS2 and REACH compliance

Relays for Photovoltaic Systems

The Altech photovoltaic relays are suitable to be integrated in the solar converter to switch the DC voltage and current generated by the solar panels supplying the generated electricity to the electrical network. This requires an interface between the solar converter and the power grid. The circuit isolation gap between the converter and the power grid must have a contact gap of ≥ 1.5mm (according to safety standard DIN VDE 0126-1-1). Altech offers two different relays to meet this requirement.

Features:

- Standard DPST (2 NO) contact configuration
- DC Coil voltages from 5VDC to 110V DC
- Rated load current
- 35A / 250V AC or 48A / 250V AC
- 35A / 24V DC or 48A / 24V DC
- Contact gap >1.75 mm ; Holding power 1W
- Silver Tin Oxide (AgSnO2) cadmium free contact material
- Compact size, PCB mounting
- UL recognized
- ROHS2 and REACH compliance

MOUNTING OPTIONS					COIL			TYPE OF RELAY	NUMBER AND TYPE OF CONTACTS									RATED CURRENT [A]					
Direct PCB mounting	With plug-in socket PCB mounting	Panel mounting	35 mm rail mount acc. To PN-EN 60715	Others	AC	DC	AC/DC		SPDT	SPST(1NO)	SPST(1NC)	DPDT	DPST(2NO)	DPST(2NC)	3PDT	3PST(3NO)	4PDT	5	10	15	20	25	30
Industrial Electromagnetic Relays																							
■	■	■	■	■	■	■		R2				■						12					
		■	■		■	■		R3							■			10					
■	■	■	■	■	■	■		R4									■	6					
		■	■	■	■	■		RY2				■						12					
■	■	■	■		■	■		R2M				■						5					
■		■	■	■	■	■		RUC				■	■		■	■		16					
■		■	■	■	■	■		R15 - DPDT				■						10					
■		■	■	■	■	■		R15 - 3PDT							■			10					
		■	■	■	■	■		R15 - 4PDT									■	10					
Miniature Electromagnetic Relays																							
■						■		RM40	■	■								5/8*					
■						■		RM50	■	■								12					
■	■	■	■		■	■		RM84				■	■					9					
■	■	■	■		■	■		RM85	■	■								16					
■	■	■	■		■	■		RM87	■	■								12					
Slimline Interface Relays																							
■			■			■		RM699B	■									6					
■	■					■		RSR30-…-D1-24-010-1		■								1					
■	■				■			RSR30-…-A1-24-020-1		■								2					
■	■					■		RSR30-…-D1-04-025-1		■								2.5					
■	■					■		RSR30-…-D1-02-040-1		■								4					
Subminiature Electromagnetic and Solid State Modules																							
			■			■	◢	PI6-1P	■									6					
			■			■	◢	PI6-1T		■								1					
			■			■	◢	PI6-1OC		■								1					
			■			■	◢	PIR6W-1PS-…	■	■								max 6 ***					
			■			■	◢	PIR6WB-1PS-…**	■	■								max 6 ***					
Relay Socket Combinations																							
		■	■		■	■		PI84 with socket GZT80				■						8					
		■	■		■	■		PI85 with socket GZT80	■									16					
		■	■		■	■		PI84 with socket GZM80				■						8					
		■	■		■	■		PI85 with socket GZM80	■									16					
		■	■		■	■		PIR2 with socket GZM2				■						12					
		■	■		■	■		PIR3 with socket GZM3							■			10					
		■	■		■	■		PIR4 with socket GZM4									■	6					
		■	■		■	■		PIR2M with socket GZ2				■						5					

* SPDT 5 A; SPST (1NO) 8A. **spring clamp socket. *** for more information see data sheet.

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

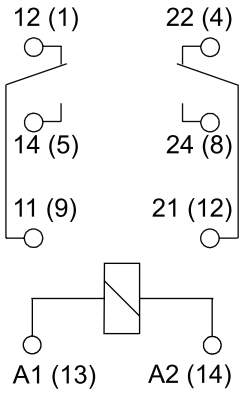
	R2M	RY2	RUC
Contact Data			
Number and type of contacts	**DPDT**	**DPDT**	**DPDT. 3PDT. DPST. 3PST**
Contact material	AgNi*	AgNi*	AgNi*
Rated / max. switching voltage AC	250 V / 250 V	250 V / 440 V	400 V / 440 V
Min. switching voltage	5 V	5 V	5 V
Rated load AC1	5 A / 250 V AC	12 A / 250 V AC	16 A / 250 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.

R2M

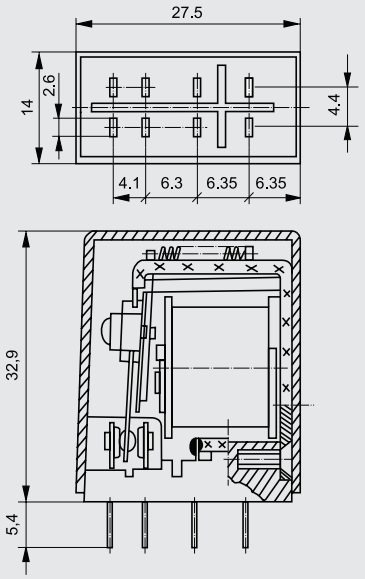
E105728

CONNECTION DIAGRAM



DPDT

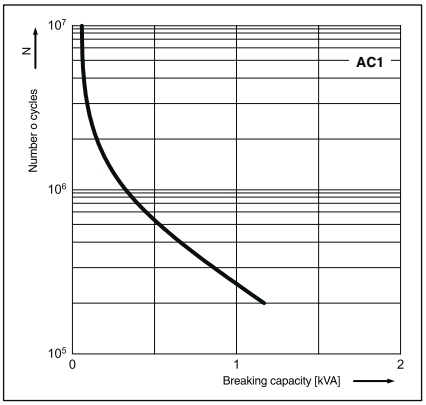
DIMENSIONS



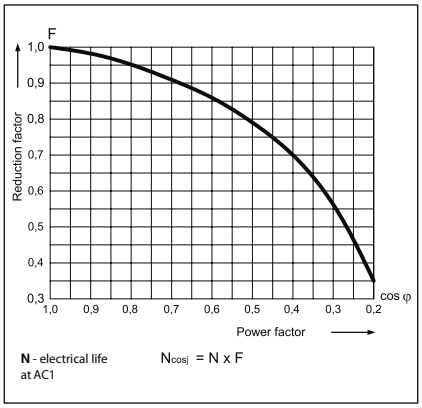
Plug-In Version

LOAD CHARTS

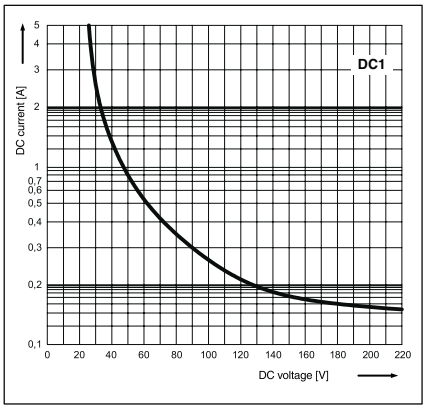
Electrical life at AC resistive load. Switching frequency: 1200 cycles/hour Fig. 1.1



Electrical life reduction factor at AC inductive load Fig. 2.1



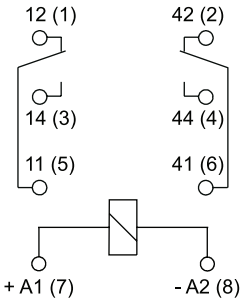
Max. DC resistive load breaking capacity Fig. 3.1



RY2

E105728

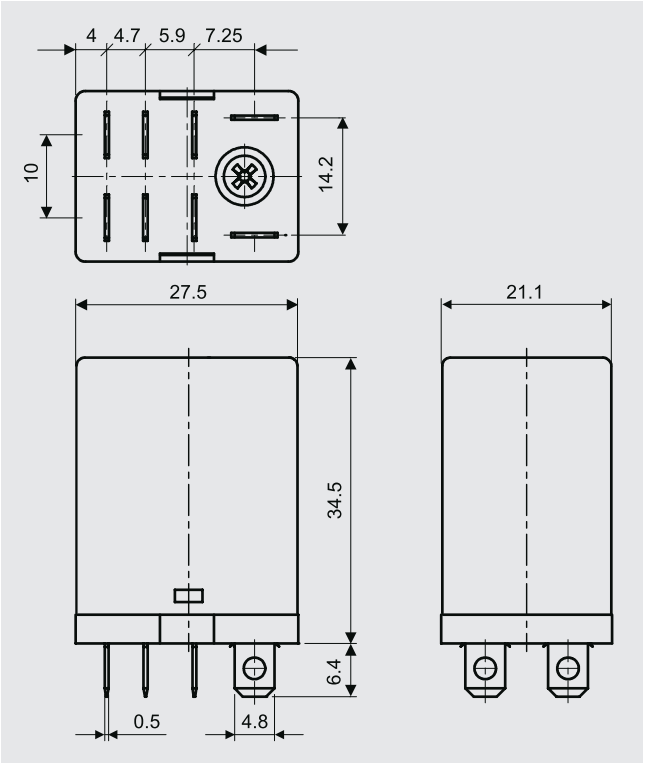
CONNECTION DIAGRAM



DPDT

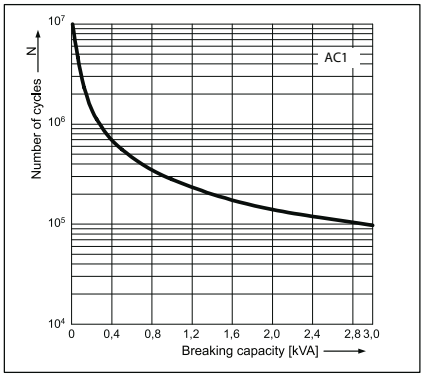
Note : the indicated polarity of the supply refers to the relays with extra equipment D - surge suppression element (diode) - for DC coils only.

DIMENSIONS

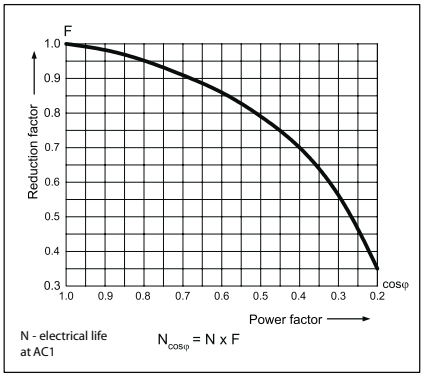


LOAD CHARTS

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



RUC

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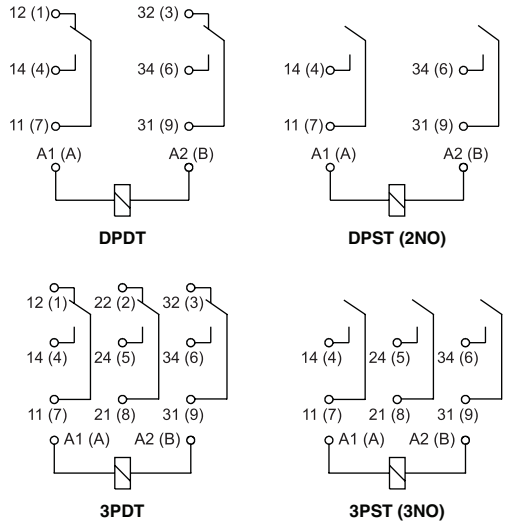
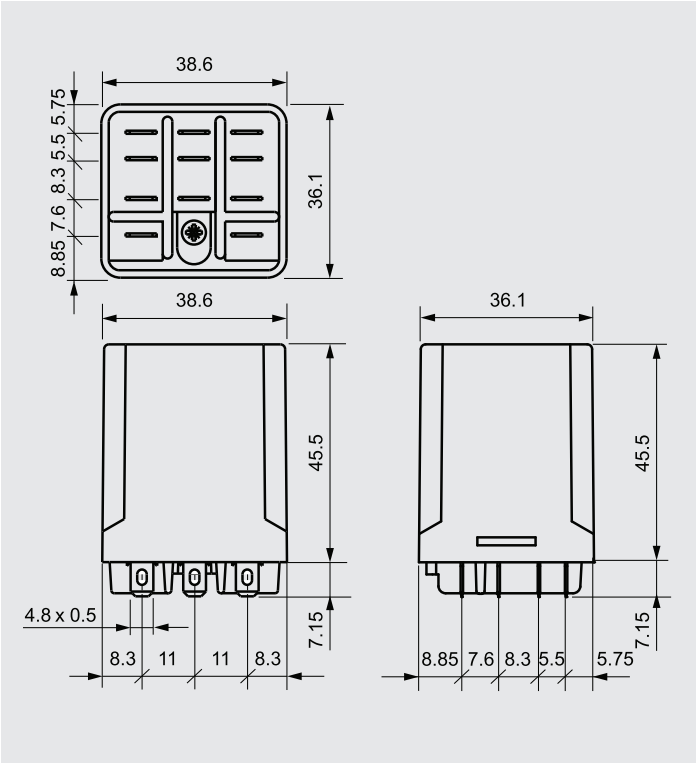
CONNECTION DIAGRAM

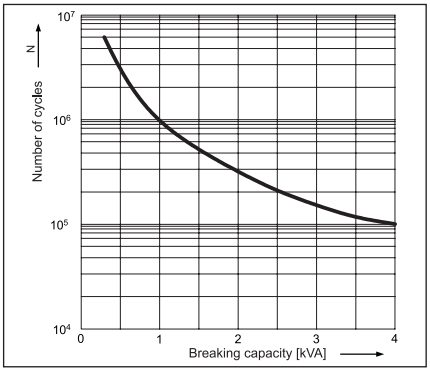


DIMENSIONS

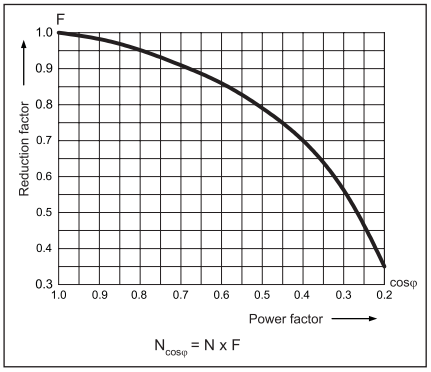


LOAD CHARTS

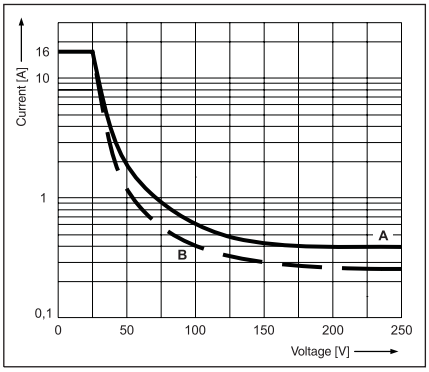
Electrical life at AC resistive load.
Switching frequency: 1200 cycles/hour Fig. 1



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



R2M / RY2 / RUC
Industrial Electromagnetic Relays

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
► **RY2-2012-26-1012**	12	DC	160	9.6	13.2	x		
RY2-2012-26-1012-L	12	DC	160	9.6	13.2		x	
RY2-2012-26-1012-D	12	DC	160	9.6	13.2			x
RY2-2012-26-1012-LD	12	DC	160	9.6	13.2		x	x
► **RY2-2012-26-1024**	24	DC	640	19.2	26.4	x		
► **RY2-2012-26-1024-L**	24	DC	640	19.2	26.4		x	
RY2-2012-26-1024-D	24	DC	640	19.2	26.4			x
RY2-2012-26-1024-LD	24	DC	640	19.2	26.4		x	x
RY2-2012-26-1110	110	DC	13600	88.0	121.0	x		
RY2-2012-26-1110-L	110	DC	13600	88.0	121.0		x	
RY2-2012-26-1110-D	110	DC	13600	88.0	121.0			x
RY2-2012-26-1110-LD	110	DC	13600	88.0	121.0		x	x
RY2-2012-26-5024	24	AC 50/60Hz	158	19.2	26.4	x		
► **RY2-2012-26-5024-L**	24	AC 50/60Hz	158	19.2	26.4		x	
RY2-2012-26-5024-D	24	AC 50/60Hz	158	19.2	26.4			x
RY2-2012-26-5024-LD	24	AC 50/60Hz	158	19.2	26.4		x	x
► **RY2-2012-26-5120**	120	AC 50/60Hz	3770	96.0	132.0	x		
► **RY2-2012-26-5120-L**	120	AC 50/60Hz	3770	96.0	132.0		x	
RY2-2012-26-5120-D	120	AC 50/60Hz	3770	96.0	132.0			x
RY2-2012-26-5120-LD	120	AC 50/60Hz	3770	96.0	132.0		x	x
RY2-2012-26-5230	230	AC 50/60Hz	16100	184.0	253.0	x		
► **RY2-2012-26-5230-L**	230	AC 50/60Hz	16100	184.0	253.0		x	
RY2-2012-26-5230-D	230	AC 50/60Hz	16100	184.0	253.0			x
RY2-2012-26-5230-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.**

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.**

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

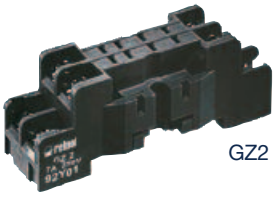
RUC 3PST(3NO) contact gap ≥ 3mm AC 50/60Hz & DC coil

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

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

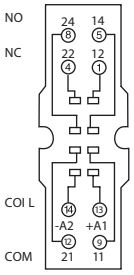


GZ2

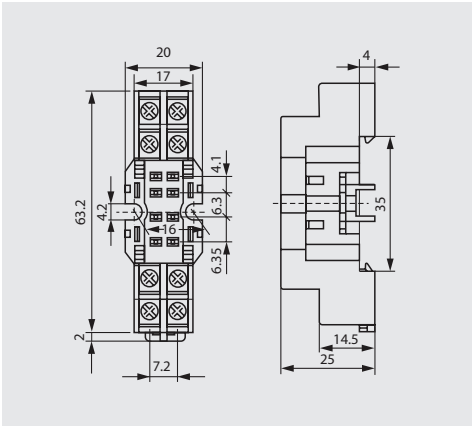
GZ2 1060

GZ2 1111

CONNECTION DIAGRAM



DIMENSIONS

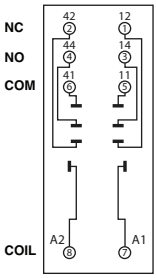


GZY2G (for RY2)

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



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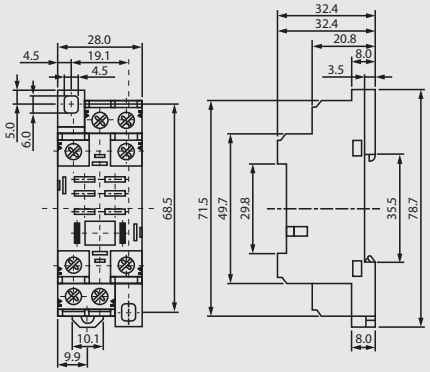
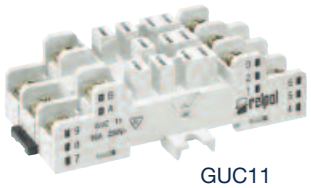


GUC11 (for RUC)

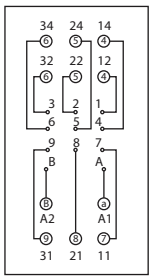
Screw terminals
Max. tightening moment
for the terminal: 0.7 Nm
35 mm rail mount
acc. to PN-EN 60715
or on panel mounting
82 x 42.2 x 26.5 mm
Three poles
16 A, 250 V AC



GUC11

MBA

CONNECTION DIAGRAM



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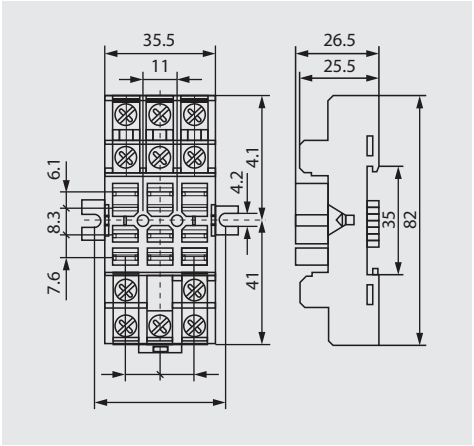

All accessories are sold separately.