Electronic Relays Modular Line

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

Compact and **precise** solution for electrical controls





SUMMARY

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The 17.5 mm wide Electronic Relays of the Modular Line were designed according to international standards, being a compact, effective and safe solution for industrial, commercial and residential applications.

The line offers many timing options for applications of motor control and starting, industrial and commercial automation, as well as specific functions for lighting system control and voltage monitoring. Its reduced size also allows the installation in distribution boards, electrical panels or motor starters, simplifying even more its application.

Benefits



COMPACT

Compact size, 17.5 mm wide



MODULAR

Suitable for installation in distribution boards, industrial panels and motor starters



EASY INSTALLATION

- Direct mounting on DIN rail35 mm or fixed with screws
- Application in industrial or residential environments



CERTIFICATIONS

Modern electronic control ensures very low energy consumption

Designed according to the following standards:

- IEC / EN 60947-1
- IEC / EN 61812
- IEC / EN 60947-5-1
- UL 508 CAN / CSA C22.2







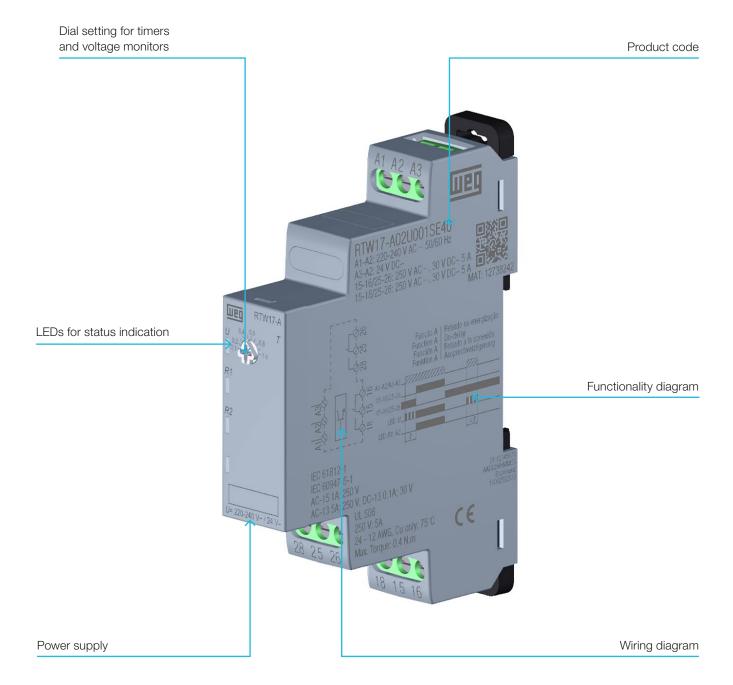








Construction characteristics





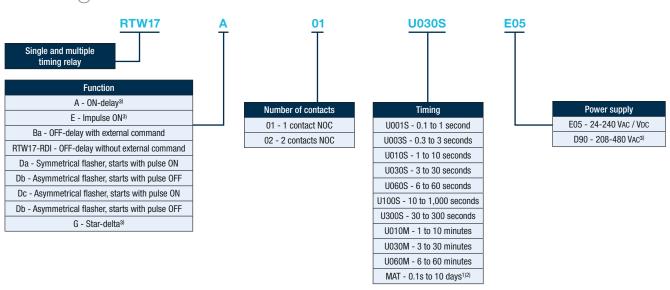
Electronic devices that allow switching an output signal according to the timing function and selected time. They are available in 17.5 mm wide boxes and can be mounted on DIN rails 35 mm or fixed by screws, available with one or two NOC outputs.

They can be used in different types of industrial applications, such as electric motor starters, control panels, industrial furnaces, die casting machines, among others. They can also be used in residential and commercial applications.

Timing functions

- RTW17-A ON-delay
- RTW17-E Impulse ON
- RTW17-Ba OFF-delay with external command
- RTW17-RDI OFF-delay without external command
- RTW17-Da Symmetrical flasher, starts with pulse ON
- RTW17-Db Symmetrical flasher, starts with pulse OFF
- RTW17-Dc Asymmetrical flasher, starts with pulse ON
- RTW17-Dd Asymmetrical flasher, starts with pulse OFF
- RTW17-G Star-delta

Coding



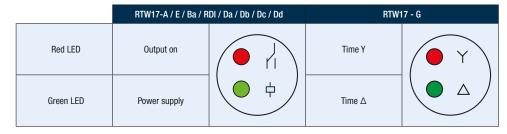
Notes: 1) MAT multiple timing models available only for RTW17-A, E, G, Ba, Da, Db models.

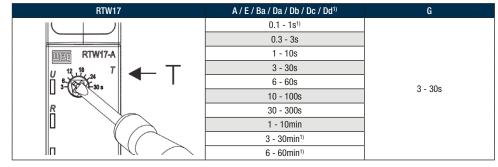
- 2) Multiple timing models only at voltage E05 24-240 VAC / VDC.
- 3) D90 208-480 Vac only for functions RTW17-A, E and G.

Time range adjustment

Single timing





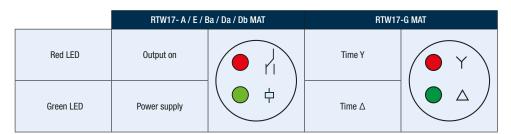


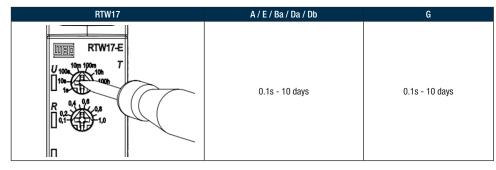
Note: 1) Time adjustment ranges not available for RDI models.

Multiple timing



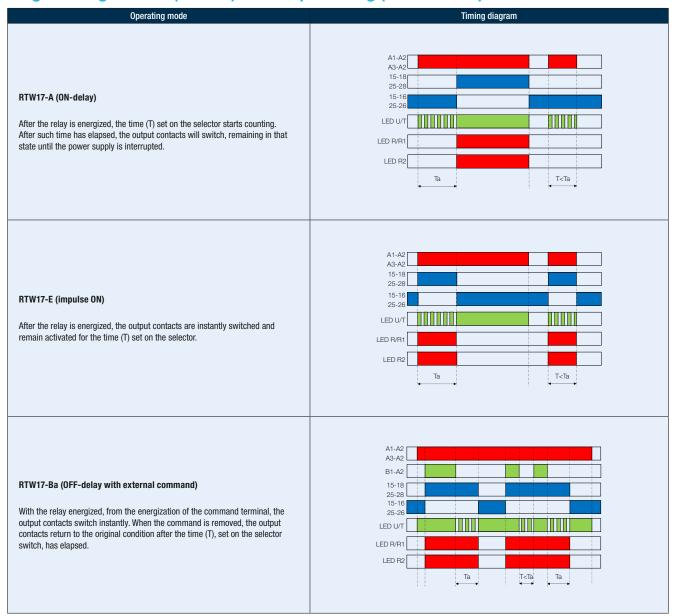
Example: RTW17-E





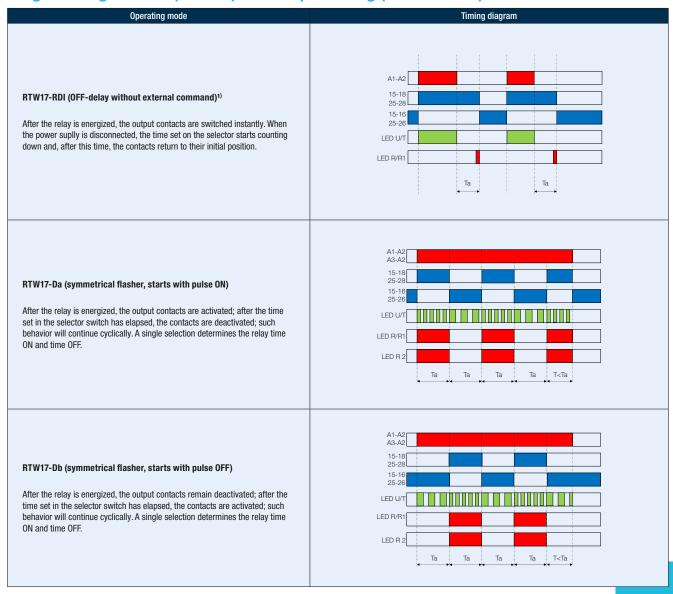


Single timing models (RTW17) or multiple timing (RTW17-MAT)





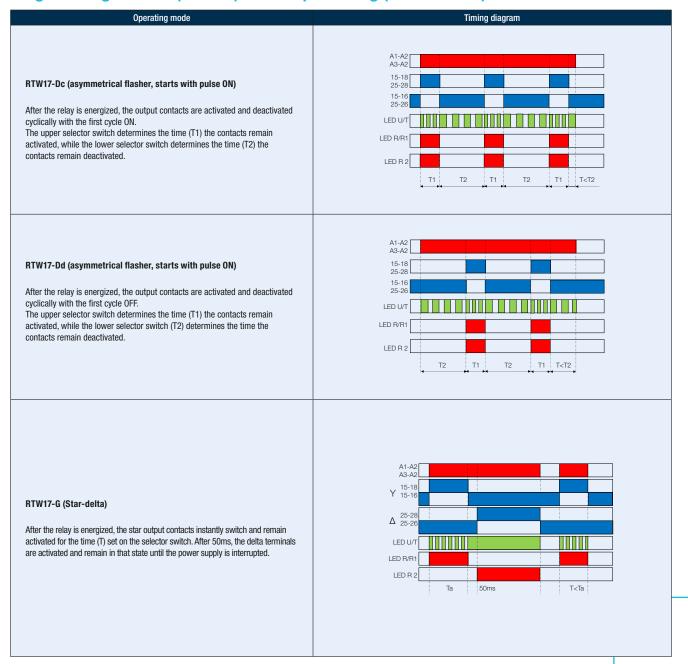
Single timing models (RTW17) or multiple timing (RTW17-MAT)



Note: 1) RDI function not available in RTW_MAT models (multple timing).



Single timing models (RTW17) or multiple timing (RTW17-MAT)





Single timing relays

RTW17-A - ON-delay

Models	Time	Reference	
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-A01U001S•	RTW17-A02U001S•
	0.3-3s	RTW17-A01U003S•	RTW17-A02U003S•
	1-10s	RTW17-A01U010S•	RTW17-A02U010S•
	3-30s	RTW17-A01U030S•	RTW17-A02U030S•
RTW17-A	6-60s	RTW17-A01U060S•	RTW17-A02U060S•
NIWI7-A	10-100s	RTW17-A01U100S•	RTW17-A02U100S•
	30-300s	RTW17-A01U300S•	RTW17-A02U300S•
	1-10min	RTW17-A01U010M•	RTW17-A02U010M•
	3-30min	RTW17-A01U030M•	RTW17-A02U030M•
	6-60min	RTW17-A01U060M•	RTW17-A02U060M●

• Power input		
Code	A1-A2 terminals	
E05	24-240 VAC / VDC	
D90	208-480 VAC	



E05	D90		
	A1 A2		
A1 A2	AI AZ		
RTW17-A	RTW17-A		
28 25 26 18 15 16	28 25 26 18 15 16		
A1 15 25 15 A2 18 16 28 26	A1 15 25 15 A2 18 16 28 26		

Note: 25/26/28 terminals on 2 contacts models only.

RTW17-E - Impulse ON

Models	Time	Refer	rence
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-E01U001S•	RTW17-E02U001S•
	0.3-3s	RTW17-E01U003S•	RTW17-E02U003S•
	1-10s	RTW17-E01U010S•	RTW17-E02U010S•
	3-30s	RTW17-E01U030S•	RTW17-E02U030S•
RTW17-E	6-60s	RTW17-E01U060S•	RTW17-E02U060S•
RIWI7-E	10-100s	RTW17-E01U100S•	RTW17-E02U100S•
	30-300s	RTW17-E01U300S•	RTW17-E02U300S•
	1-10min	RTW17-E01U010M•	RTW17-E02U010M•
	3-30min	RTW17-E01U030M•	RTW17-E02U030M•
	6-60min	RTW17-E01U060M•	RTW17-E02U060M•

Power input		
Code	A1-A2 terminals	
E05	24-240 VAC / VDC	
D90	208-480 VAC	



E05	D90	
A1 A2	A1 A2	
RTW17-E	RTW17-E	
28 25 26 18 15 16	28 25 26 18 15 16	
A1 15 25 A2 A2 18 16 28 26	A1 15 25 A2 18 16 28 26	

Note: 25/26/28 terminals on 2 contacts models only.



Single timing relays

RTW17-Ba - OFF-delay with external command

Martin	Time	Reference	
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-BA01U001S•	RTW17-BA02U001S•
	0.3-3s	RTW17-BA01U003S•	RTW17-BA02U003S•
	1-10s	RTW17-BA01U010S•	RTW17-BA02U010S•
	3-30s	RTW17-BA01U030S•	RTW17-BA02U030S•
RTW17-Ba	6-60s	RTW17-BA01U060S•	RTW17-BA02U060S•
RIWI7-Da	10-100s	RTW17-BA01U100S•	RTW17-BA02U100S•
	30-300s	RTW17-BA01U300S•	RTW17-BA02U300S•
	1-10min	RTW17-BA01U010M•	RTW17-BA02U010M●
	3-30min	RTW17-BA01U030M•	RTW17-BA02U030M●
	6-60min	RTW17-BA01U060M•	RTW17-BA02U060M•

Power input		
Code	A1-A2 terminals	
E05	24-240 VAC / VDC	

RTW17-RDI - OFF-delay without external command

Models	Time	Reference 1 contact 2 contacts		
Models	adjust			
	0.3-3s	RTW17-RDI01-U003S•	RTW17-RDI02-U003S•	
	1-10s	RTW17-RDI01-U010S•	RTW17-RDI02-U010S•	
RTW17-RDI	3-30s	RTW17-RDI01-U030S•	RTW17-RDI02-U030S•	
	6-60s	RTW17-RDI01-U060S•	RTW17-RDI02-U060S•	
	10-100s	RTW17-RDI01-U100S•	RTW17-RDI02-U100S•	
	30-300s	RTW17-RDI01-U300S•	RTW17-RDI02-U300S•	
	1-10min	RTW17-RDI01-U010M•	RTW17-RDI02-U010M•	

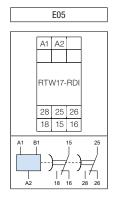
Power input		
Code	A1-A2 terminals	
E05	24-240 VAC / VDC	



E05					
	A1	A2	B1		
	RTV	W17-	-Ва		
	28	25	26		
	18	15	16		
A1 B1 15 25 A2 18 16 28 26					

Note: 25/26/28 terminals on 2 contacts models only.





Note: 25/26/28 terminals on 2 contacts models only.



Single timing relays

RTW17-Da - Symmetrical flasher, starts with pulse ON

Models	Time	Reference	
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-DA01U001S•	RTW17-DA02U001S•
	0.3-3s	RTW17-DA01U003S•	RTW17-DA02U003S•
	1-10s	RTW17-DA01U010S•	RTW17-DA02U010S•
	3-30s	RTW17-DA01U030S•	RTW17-DA02U030S•
DT1111 - D	6-60s	RTW17-DA01U060S•	RTW17-DA02U060S•
RTW17-Da	10-100s	RTW17-DA01U100S•	RTW17-DA02U100S•
	30-300s	RTW17-DA01U300S•	RTW17-DA02U300S•
	1-10min	RTW17-DA01U010M•	RTW17-DA02U010M•
	3-30min	RTW17-DA01U030M•	RTW17-DA02U030M•
	6-60min	RTW17-DA01U060M•	RTW17-DA02U060M●

Power input		
Code A1-A2 terminals		
E05	24-240 VAC / VDC	



E05				
	A1	A2		
	RT	W17-	-Da	
	28	25	26	
	18	15	16	
A1 15 25 25 26 26 28 26				

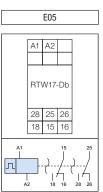
Note: 25/26/28 terminals on 2 contacts models only.

RTW17-Db - Symmetrical flasher, starts with pulse OFF

Models	Time	Refer	rence
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-DB01U001S•	RTW17-DB02U001S•
	0.3-3s	RTW17-DB01U003S•	RTW17-DB02U003S•
	1-10s	RTW17-DB01U010S•	RTW17-DB02U010S•
	3-30s	RTW17-DB01U030S•	RTW17-DB02U030S•
RTW17-Db	6-60s	RTW17-DB01U060S•	RTW17-DB02U060S•
NIWI7-DD	10-100s	RTW17-DB01U100S•	RTW17-DB02U100S•
	30-300s	RTW17-DB01U300S•	RTW17-DB02U300S•
	1-10min	RTW17-DB01U010M•	RTW17-DB02U010M●
	3-30min	RTW17-DB01U030M•	RTW17-DB02U030M•
	6-60min	RTW17-DB01U060M•	RTW17-DB02U060M•

Power input		
Code A1-A2 terminals		
E05	24-240 VAC / VDC	





Note: 25/26/28 terminals on 2 contacts models only.



Single timing relays

RTW17-Dc - Asymmetrical flasher, starts with pulse ON

Madala	Time	Reference	
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-DC01U001S•	RTW17-DC02U001S•
	0.3-3s	RTW17-DC01U003S•	RTW17-DC02U003S•
	1-10s	RTW17-DC01U010S•	RTW17-DC02U010S•
	3-30s	RTW17-DC01U030S•	RTW17-DC02U030S•
RTW17-Dc	6-60s	RTW17-DC01U060S•	RTW17-DC02U060S•
	10-100s	RTW17-DC01U100S•	RTW17-DC02U100S•
	30-300s	RTW17-DC01U300S•	RTW17-DC02U300S•
	1-10min	RTW17-DC01U010M•	RTW17-DC02U010M•
	3-30min	RTW17-DC01U030M•	RTW17-DC02U030M•
	6-60min	RTW17-DC01U060M•	RTW17-DC02U060M•

• Power input		
Code A1-A2 terminals		
E05	24-240 VAC / VDC	



	E05			
	A1	A2		
	RT'	W17	-Dc	
	28	25	26	
	18	15	16	
A1	2) 18	15	25

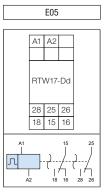
Note: 25/26/28 terminals on 2 contacts models only.

RTW17-Dd - Asymmetrical flasher, starts with pulse OFF

Models	Time	Refer	rence
Models	adjust	1 contact	2 contacts
	0.1-1s	RTW17-DD01U001S•	RTW17-DD02U001S•
	0.3-3s	RTW17-DD01U003S•	RTW17-DD02U003S•
	1-10s	RTW17-DD01U010S•	RTW17-DD02U010S•
	3-30s	RTW17-DD01U030S•	RTW17-DD02U030S•
RTW17-Dd	6-60s	RTW17-DD01U060S•	RTW17-DD02U060S•
NIWI7-Du	10-100s	RTW17-DD01U100S•	RTW17-DD02U100S•
	30-300s	RTW17-DD01U300S•	RTW17-DD02U300S•
	1-10min	RTW17-DD01U010M•	RTW17-DD02U010M•
	3-30min	RTW17-DD01U030M•	RTW17-DD02U030M•
	6-60min	RTW17-DD01U060M•	RTW17-DD02U060M•

Power input		
Code A1-A2 terminals		
E05	24-240 VAC / VDC	





Note: 25/26/28 terminals on 2 contacts models only.

Single timing relays

RTW17-G - star-delta

Models	Time	Reference
Wodels	adjust	2 contacts
RTW17-G	3-30s	RTW17-G02U030S•

Power input		
Code	A1-A2 terminals	
E05	24-240 VAC / VDC	
D90	208-480 VAC	



E05	D90
A1 A2	A1 A2
RTW17-G	RTW17-G
18 15 16	18 15 16
A1 Y 15 \(\Delta \) 15 \(\Delta \) 15 \(\Delta \) 15 \(\Delta \) 16 18 16 18	Α1 Y 15 Δ 15 Α2 16 18 16 18

Multiple timing relays (wide adjustment range)

RTW17-_MAT - Multiple timing relays

Models	Time	Refer	rence
Wodels	adjust	1 contact	2 contacts
	ON-delay (A)	RTW17-A01MAT●	RTW17-A02MAT●
	Impulse ON (E)	RTW17-E01MAT●	RTW17-E02MAT●
DT::::	OFF-delay (Ba)	RTW17-BA01MAT●	RTW17-BA02MAT●
RTW17MAT Time adjust from 0.1 second up to 10 days	Symmetrical flasher, starts with pulse ON (Da)	RTW17-DA01MAT●	RTW17-DA02MAT◆
	Symmetrical flasher, starts with pulse OFF (Db)	RTW17-DB01MAT●	RTW17-DB02MAT●
	Star-delta (G)	-	RTW17-G02MAT●

Power input				
Code	A1-A2 terminals			
E05	24-240 VAC / VDC			





Technical data

	Product voltage code		E05	D90	
	Input level (U _e) ¹⁾	A1-A2 terminals	24-240 Vac (50/60 Hz) or 24-240 VDc	208-480 VAC (50/60 Hz)	
input	Operational range		0.851.10 x U _e		
Poweri	Power consumption - control circuit		1 W		
\ \Q	Insulation voltage (U _i)		300 V	600 V	
	Impulse voltage (U _{imp})		4 kV 6 kV		
Minimum discharge current		2 kA			

	Main data						
	Reset time		100	ms			
just	Minimum command pulse time		50ms (general) / 1.5s (RDI models)				
Time adjust	Scale accuracy (end of scale)		±5	%			
<u> </u>	Repeatability accuracy		±2	%			
	Delay transition Y - △ (star-delta)		50ms :	±20%			
Output relay	Output contact capacity (I _b)		Resistive loads at 250 Vac: 5 A AC-15 at 230 Vac: 1 A	Resistive loads at 30 VDC: 3 A			
ō	Thermal current (I _{th})		5 A (AC)				
	Fuse (clase gL/gG)		4 A				
	Mechanical lifespam		30 x 10 ⁶ cycles				
	Environment temperature		Storage: -40 °C +85 °C	Operation: -5 °C +60 °C			
	Protection degree		IP20				
		Solid wire ¹⁾	1 x (0.5 2.5 mm²) / 2 x (0.5 1 mm²)				
	Cable crossection (min max)	Flexible conductor with ferrule	1 x (0.5 1.5 mm²) / 2 x (0.5 0.75 mm²)				
res		AWG Solid wire ¹⁾	2 x (28	18 AWG)			
General features	Terminal tightening torque		0.4 N.m /	3.5 Lb.in			
aral f	Mounting position		Any position (no restrictions)				
Gene	Impact resistance		15 g / 11ms				
	Vibration resistance		10 a 55 Hz / 0.35 mm				
	Weight		1 contact models: 0.08 kg	1 contact models: 0.095 kg			
	Degree of pollution		2				
	Overvoltage category		III				
	Certifications		CE/UK(CA/UL CA/UL			

Note: 1) If there is more than one solid wire in the same terminal, they must have the same diameter.



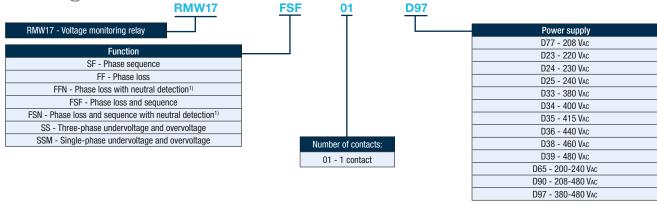
RMW17 are electronic devices developed to monitor the electrical power supply and protect equipment. By means of their auxiliary contact, voltage monitor relays keep the equipment in operating conditions as long as the power supply still in according with parameter set in the product, shutting down whenever there is any variation/anomaly that exceeds the preset values.

With their precise and fast-acting electronics, they will save the equipment from breakdowns that would occur if they if they were to remain in operation while being fed from a main power supply that is not in accordance with their nominal values.

Voltage monitoring functions

- RMW17-FF Phase loss
- RMW17-FFN Phase loss with neutral detection
- RMW17-SF Phase sequence
- RMW17-FSF Phase loss and sequence
- RMW17-FSN Phase loss and sequence with neutral detection
- RWM17-SS Three-phase undervoltage and overvoltage
- RMW17-SSM Single-phase undervoltage and overvoltage

Configuration





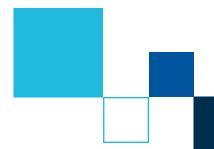
Models	Function	On anothing all colleges	Reference
Models	Function	Operational voltage	1 contact
	Dhoos coguence	208-480 VAC	RMW17-SF01D90
	Phase sequence	200-240 VAC	RMW17-SF01D65
	Phase loss	200-240 VAC	RMW17-FF01D65
	Filase ioss	380-480 Vac	RMW17-FF01D97
	Phase loss with neutral detection ¹⁾	200-240 VAC	RMW17-FFN01D65
	Friase ioss with neutral detection?	380-480 Vac	RMW17-FFN01D97
	Phase loss and sequence	200-240 VAC	RMW17-FSF01D65
	i nase ioss and sequence	380-480 VAC	RMW17-FSF01D97
	Phase loss and sequence with	200-240 VAC	RMW17-FSN01D65
	neutral detection ¹⁾	380-480 VAC	RMW17-FSN01D97
RTW17		208 VAC	RMW17-SS01D77
	Three-phase undervoltage	220 VAC	RMW17-SS01D23
		230 VAC	RMW17-SS01D24
		240 VAC	RMW17-SS01D25
		380 VAC	RMW17-SS01D33
	and overvoltage	400 Vac	RMW17-SS01D34
		415 VAC	RMW17-SS01D35
		440 VAC	RMW17-SS01D36
		460 VAC	RMW17-SS01D38
		480 VAC	RMW17-SS01D39
	Single-phase undervoltage and overvoltage	220 VAC	RMW17-SSM01D23

Electrical connections

	Connection diagram						
	Three-phase models	Three-phase with neutral models ¹⁾	Single-phase models				
Top: line input	L1 - L2 L3	L1 - L2 N - L3	A1 - A2 				
Center: adjustment and signaling	RMW17	RMW17	RMW17				
Bottom: auxiliary contact	 18 15 16	 18 15 16	 18 15 16				
Electrical diagram	L1L2L3 	L1L2L3 15 17 18 19 10 10 11 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	A1 A2				



Note: 1) For the correct operation of the FFN and FSN models, all three phases and the neutral must be connected.







Note: 1) The Asymmetry function (Asy) is present in the FF, FFN, FSF and FSN items, which can be adjusted in the range of 3... 15%.

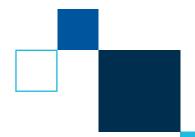


Technical data

Product voltage code		D77	D23	D24	D25	D33	D34	D35	D36	D38	D39	D65	D97	D90
	Power supply/operation (Us) Terminals L1-L2-L3 /A1-A2	208 VAC	220 VAC	230 VAC	240 VAC	380 VAC	400 VAC	415 VAC	440 VAC	460 VAC	480 Vac	200-240 VAC	380-480 VAC	208-480 VAC
Frequency 50/60 Hz														
Maximum permissible voltage in neutral 20 Vac														
8	Maximum power consumption (Us)	80 mA / 1 W												
	Rated insulation voltage (U _i)	600 V												

	Main data					
Output relay	Output relay capacity (I _e)		Resistive DC-1 DUT relay capacity (I _e) Resistive loads at 250 VAC: 3 A DC-15 AC-15 at 230 VAC: 1 A DC-15 DC-15 DC-15			
Out	Rated thermal current (I _{th})	3,	A		
	Fuse (gL/gG class)		4.	A		
	Mechanical lifespan		30 x 10 ⁶	cycles		
	Voltage level for phase fa	ilure actuation	<0.7	x Un		
	Undervoltage and overvo	Itage settings1)	Undervoltage: 3 15% (0.97 0.85 x Un)	Overvoltage: 3 15% (1.03 1.15 x Un)		
	Adjustment for asymmetr	ry (unbalance) ²⁾	3 1	5%		
	Adjustment accuracy		±15%			
	Repeatability accuracy		±1%			
	Environment temperature)	Storage: -40 +85 °C / Operation: -5 +60 °C			
	Protection degree		IP20			
nres	Cable crossection	Solid wire ³⁾	1 x (0.5 2.5) mm ²	/ 2 x (0.5 1) mm ²		
feat	(min max)	Flexible conductor with ferrule	1 x (0.5 1.5) mm ² /	2 x (0.5 0.75) mm ²		
General features	(AWG solid wire ³⁾	1 ou 2 x (24	12 AWG)		
Ger	Terminal tightening torqu	e	0.4 N.m /	3.5 Lb.in		
	Mounting position		Any position (no restrictions)			
	Impact resistance		15 g / 11ms			
	Vibration resistance		10 55 Hz / 0.35 mm			
	Weight		0.08 kg			
	Degree of pollution		2			
	Overvoltage category		III			
	Certifications		CE/UKC	A/UL ⁴⁾		

- Notes: 1) Exclusive for SS and SSM function relays.
 2) Asymmetry function (unbalance) fixed at 15% for SF function relays. SS and SSM function relays do not have an asymmetry function.
 3) If there is more than one solid wire in the same terminal, they must be of the same diameter.
 4) UL certification not available for single-phase models.





The RIEW17 impulse relay was designed to be used in the control of automation systems in homes, hotels and commercial or residential buildings. 17.5 mm wide, it is compact size allows installation in switchboard panels.

The commands of the automation system can be executed from one or more points, replacing conventional switches by pushbuttons, thus allowing multiple commands in a flexible, simple and quick way, providing greater effectiveness and electric energy savings. It may also be used in the command of illumination systems and other residential automation systems, ensuring safety and reliability. Furthermore, it has incorporated reset (master-off) and alternate current (AC) or direct current (DC) power supply.

Selection

Reference	Description	Power supply	Contacts	Width
RIEW17-01E40	220-240 VAC / 24 VDC		1NO	
RIEW17-01E05	Impulso rolov	04 040 V40 F0/C0 H= (44 40)	1NO	17.5 mm
RIEW17-02E05	Impulse relay	24-240 VAC 50/60 Hz (A1-A2) ou 24-240 VAC (A1-A2)	2N0	17.3
RIEW17-11E05		0u 24-240 VAC (A1-A2)	1NC + 1NO	



Operation

Operating mode

The U LED indicates the RIEW17 is energized (green LED On).

With the RIEW17 energized, when a command pulse is emitted, the output relays picks up, the NO contact closes, thus activating the connected devices.

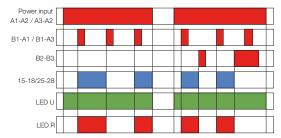
The R red LED turns on, indicating the output is closed.

After one more command pulse, the output returns to the regular state (NO contact). The R LED turns off.

The reset function (master-off) disables the output relay, regardless of the output contact state. If several RIEW17 relays with reset (master-off) are present in a network and they can be enabled, all of them will be turned off (contacts 15-18 will remain open).

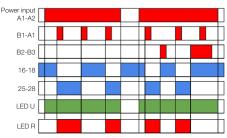
Timing diagram

RIEW17 1NO and 2NO



Note: A1-A2/A3-A2: Power supply B1-A1/B1-A3: Command pulse B2-B3: Reset (Master off) 15-18/25-28: Output contacts LED U: Power status indication R LED: Output contact status indication

RIEW17 1NC + 1NO



Note: A1-A2: Power supply
B1-A1: Command pulse
B2-B3: Reset (Master off)
25-28/16-18: Output contacts
LED U: Power status indication
R LED: Output contact status indication



Technical data

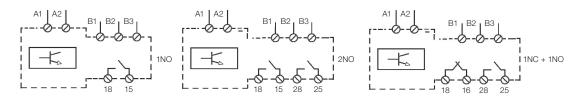
	Product voltage code	E05	E40			
	Input level (U _e)	24-240 VAC (50/60 Hz) / 24-240 VDC	220-240 VAC (50/60 Hz) / 24 VDC			
+	Operational range	0.85 1.10 x U _e				
input	Power consumption - control circuit	1W				
Power	Insulation voltage (U _i)	300 V				
_ <u>~</u>	Impulse voltage (U _{imp})	4 kV				
	Minimum discharge current	2 kA				

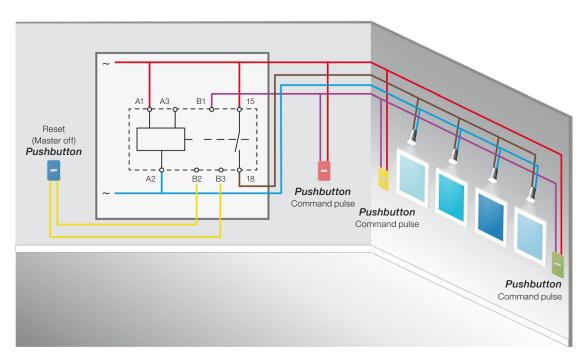
	General features					
	Current @ 250 VAC / 30 VDC	Rated	16 A			
	Current @ 250 VAC / 30 VDC	Instant peak	30 A			
	AC-1 rated power (250 VAC)		4,000 W			
	AC-15 rated power (250 VAC)		750 VA			
slay			Incandescent or halogen: 3,000 W			
Output relay			Fluorescent with electronic ballast: 1,500 W			
Outp			Fluorescent with electromagnetic ballast: 1,000 W			
	Maximum lamp power		CFL: 600 W			
			LED (230 VAC): 600 W			
			Halogen or LED with electronic ballast: 600 W			
			Halogen or LED with electromagnetic ballast: 1,500 W			
	Auxiliary contact versions		1NO / 2NO / 1NC + 1NO			
	Electrical lifespan		10 x 10 ⁵ cycles			
	Environment temperature	Operation	-5 °C +60 °C			
	Environment temperature	Store	-40 °C +85 °C			
	Protection degree		IP20			
တ	Cable crossection	Solid wire ¹⁾	1 x (0.5 2.5) mm² / 2 x (0.5 1) mm² / 2 x (28 18) AWG			
General features	(min max)	Flexible conductor with ferrule	1 x (0.5 1.5) mm² / 2 x (0.5 0.75) mm²			
<u> </u>	Terminal tightening torque		0.4 N.m / 3.5 Lb.in			
Gene	Terminal screw		M3			
	Mounting position		Any position (no restrictions)			
	Impact resistance		15 g / 11ms			
	Vibration resistance		10 55 Hz / 0.35 mm			
	Weight		0.1 kg			
	Degree of pollution		2			
	Overvoltage category		III			

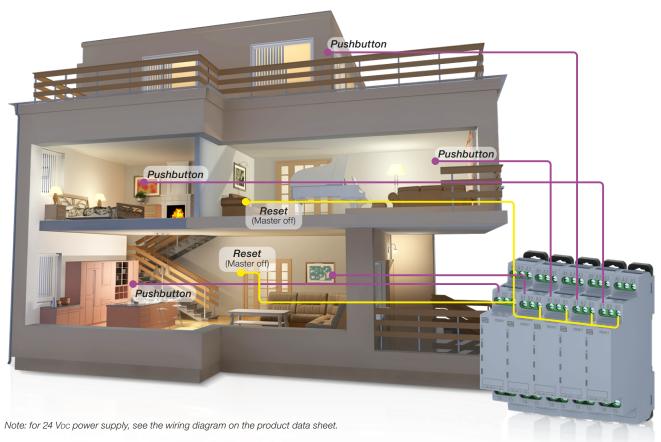
Note: 1) If there is more than one solid wire in the same terminal, they must be of the same diameter.



Wiring diagram



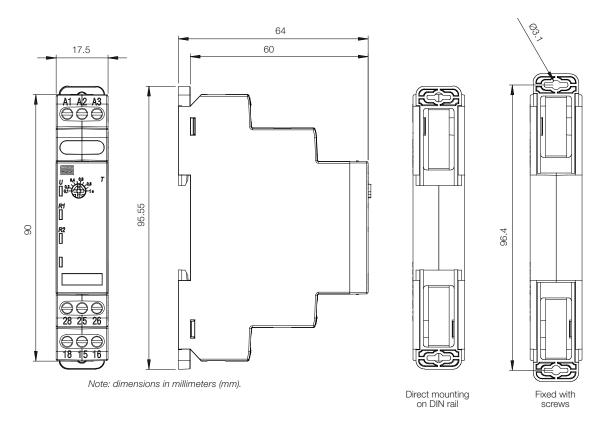






Dimensions

RTW17 / RIEW17 / RMW17



Altitudes - ratio-corrector factor

Altitude above sea level - h	Voltage ratio-corrector factor (U _e) / V	Current ratio-corrector factor (I _{u)}) / A
h ≤2,000 m	1	1 x I _n
2,000 <h m<="" td="" ≤3,000=""><td>0.87</td><td>0.95 x I_n</td></h>	0.87	0.95 x I _n
3,000 <h m<="" td="" ≤4,000=""><td>0.77</td><td>0.90 x I_n</td></h>	0.77	0.90 x I _n
4,000 <h m<="" td="" ≤5,000=""><td>0.67</td><td>0.85 x I_n</td></h>	0.67	0.85 x I _n



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