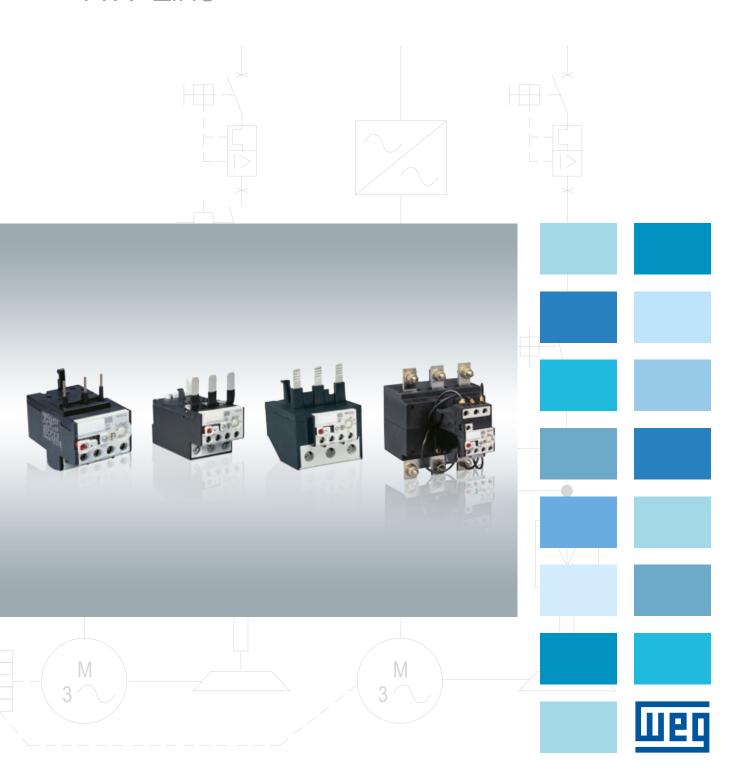
Automation

Thermal Overload Relays RW Line





Thermal Overload Relays RVV Line

Summary

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Thermal Overload Relays RW

Description

RW thermal overload relays are designed to be combined with contactors to assemble motor starters.

Thermal overload relays are very reliable devices intended to protect motors, controllers and branch-circuit conductors against phase failures and overloads that cause excessive heating.

The thermal overload relay has no power contacts and cannot disconnect the motor by itself. Motor overloads or phase failures increase the motor current. This current increase trips the mechanism and switches the auxiliary contacts.

The auxiliary contacts, when properly wired in series with the coil of the contactor will de-energize the contactor when an overload occurs. Thus, the contactor disconnects the power to the motor and stops its operation. The bimetallic thermal overload relays have thermal memory. Once tripped, the relay will not reset until it has cooled down, allowing the motor to cool before it can be re-started.









Applications

RW thermal overload relays have been designed to protect three-phase and single-phase AC motors and direct current motors¹⁾. When the RW thermal overload relays are intended to protect single-phase AC loads or DC loads, the connection should be made as shown in the diagrams on page 10.

RW Thermal Overload Relays in Contactor Assemblies for Wye-Delta Starters

When using thermal overload relays in conjunction with contactor assemblies for wye-delta starters, it should be taken into consideration that only 0.58 ($\sqrt{3}$ / 3) x the motor current flows through the main contactor. An overload relay mounted on the main contactor must be set to the same multiple of the motor current.

A second overload relay may be mounted on the wye contactor if it is desired the load to be optimally protected in wye operation. The wye current is 1/3 of the rated motor current. The relay must then be set to this current.

Protection Against Short-Circuit

The RW thermal overload relays must be protected against short-circuits by fuses or circuit breakers.

Ambient Air Temperature Compensation

RW thermal overload relays are temperature compensated. Its trip point is not affected by temperature, and it performs consistently at the same value of current. The time-current characteristics of RWs refer to a stated value of ambient air temperature within the range of -20 °C to +60 °C and are based on no previous loading of the overload relay (i.e. from an initial cold state). For ambient air temperature within the range of +60 °C up +80 °C (maximum ambient air temperature), the current correction factor shown in the table below should be applied:

Ambient air temperature	Current correction factor
65 °C	0.94
70 °C	0.87
75 °C	0.81
80 °C	0.73

Note: models RW317 and RW407 should be used only with electric motors in alternating current.

Site Altitude Compensation

The site altitude and hence the air density play a role with respect to the cooling conditions and dielectric withstand voltage. A site altitude of up to 2,000 m is considered as normal in accordance with IEC/EN 60947. For higher altitudes, the current settings on the thermal overload relay should be higher than the motor rated current. On the other hand, the operational voltage must be reduced.

For site altitudes higher than 2,000 m, the values for the current and voltage shown in the table below should be applied:

Altitude above sea level (m)	Adjustment factor on the current setting	Maximum operational voltage Ue (V)
2,000	1.00 x I _n	690
3,000	1.05 x I	550
4,000	1.08 x I _n	480
5,000	1.12 x l	420

Characteristic Tripping Curve

Thermal overload relays are designed to mimic the heat actually generated in the motor. As the motor temperature increases, so does the temperature of the overload relay thermal unit.

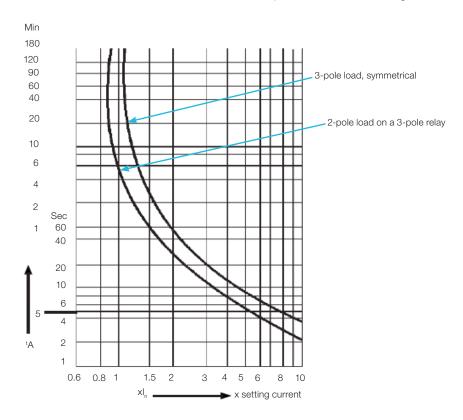
The motor and relay heating curves have a strong relationship. No matter how high the current drawn by the motor, the thermal overload relay provides protection and yet, does not trip unnecessarily.

Thus, the characteristic tripping curves indicate how the tripping time, starting from the cold state, varies with the current for multiples of the full-load current for three-pole symmetrical loads.

Phase Failure Sensitivity

In order to ensure fast tripping in case of phase loss, protecting the motor and avoiding expensive repairs / corrective maintenance services, RW27-2D thermal overload relays include phase failure sensitivity protection as standard. For this purpose, they have a differential release mechanism that, in the case of phase failure, ensures the de-energized cooled down bimetal strip to generate an additional tripping displacement (simulating an overcurrent that actually doesn't exist). This way, in the event of phase failure, the differential release ensures tripping at a lower current than with a three-phase load (characteristic curve below).

However, for more effective protection against phase failure, specific protective products should be evaluated ensuring that such failure is detected much faster. The curve below shows the tripping time in relation to the rated current. It is also considered average values of the tolerance range and at ambient temperature of 20 °C starting from the cold state.





Multifunction Reset / Test Button

The thermal overload relay has a multifunction *RESET / TEST* button that can be set in four different positions:

A - Automatic RESET only;

AUTO - Automatic RESET / TEST;

HAND - Manual RESET / TEST;

H - Manual **RESET** only.

In **HAND** and **AUTO** positions, when **RESET** button is pressed,

both NO (97-98) and NC (95-96) contacts change states.



Operation description:

In H (manual RESET only) or A (automatic RESET only) position, the test function is blocked. However in the positions HAND (manual RESET / TEST) or AUTO (automatic RESET / TEST) it is possible to simulate the test and the trip functions by pressing the RESET button.

When set in the H or HAND position the RESET button must be pressed manually to reset the overload relay after a tripping event. On the other hand, when set in A or AUTO position, the overload relay will reset automatically after a tripping event. The H, HAND, AUTO and A function setting is carried out by rotating without pressing the red button and placing it on the desired position of the RESET button.

When changing from HAND to AUTO, the RESET button must be slightly pressed while the red button is rotated.

Functions	Н	HAND	AUT0	A
Relay reset	Manual ¹⁾	Manual ¹⁾	Automatic	Automatic
Auxiliary contact trip test 95-96 (NC)	Function is disabled	Test is allowed	Test is allowed	Function is disabled
Auxiliary contact trip test 97-98 (NO)	Function is disabled	Test is allowed	Test is allowed	Function is disabled

Note: 1) A recovery time of a few minutes is necessary before resetting the thermal overload relay.

Recovery Time

The RW thermal overload relays have thermal memory.

After tripping due to an overload, the relay requires a certain period of time for the bimetal strips to cool down. This period of time is so-called recovery time. The relay can only be reset once it has cooled down. The recovery time depends on the characteristic tripping curves and the level of the tripping current. After tripping due to overload, the recovery time allows the load to cool down.

Operation in the Output Side of Frequency Inverters

The RW27-2D thermal overload relays are designed for operation on 50/60 Hz up to 400 Hz and the tripping values are related to the heating by currents within this frequency range. Depending on the design of the frequency inverter, the switching frequency can reach several kHz and generate harmonic currents at the output that result in additional temperature rise in the bimetal

strips. In such applications, the temperature rise not only depends on the rms value of the current, but on the induction effects of the higher frequency currents in the metal parts of the device (skin effect caused by eddy currents).

Due to these effects, the current settings on the overload relay should be higher than the motor rated current.

Certifications















European Union

Canada and USA

Argentina

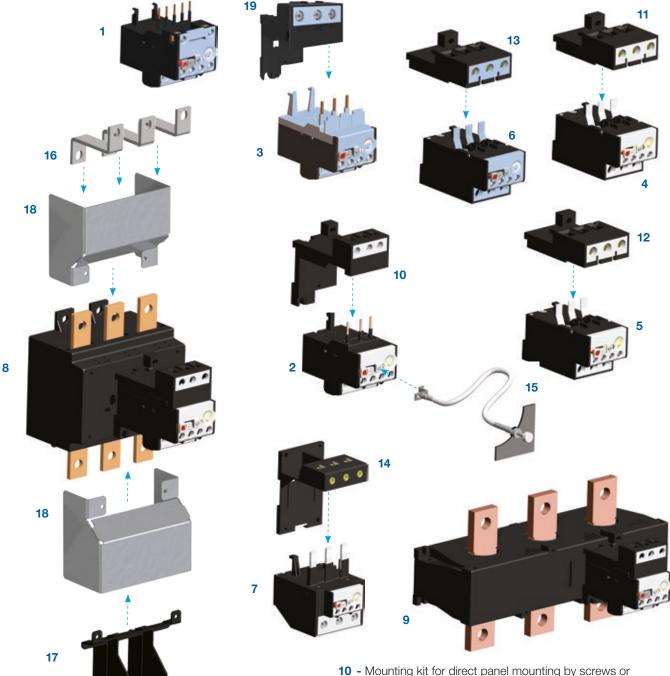
South Africa

Eurasian Economic Community Mexico

Marine



Thermal Overload Relays RW17...RW407 - Overview



- 1 RW17-1D (direct mounting on CW07/CWC07...16 compact contactors) and RW17-2D (direct mounting on CWC025 compact contactor)
- 2 RW27-1D (direct mounting on CWM9...40 contactors)
- **3 -** RW27-2D (direct mounting on CWB9...38 contactors)
- 4 RW67-1D (direct mounting on WM32...40 contactors)
- **5 -** RW67-2D (direct mounting on WM50...80 contactors)
- 6 RW67-5D (direct mounting on CWB40...80 contactors)
- 7 RW117 (direct mounting on CWM95/105 contactors)
- 8 RW317 (CWM112...300/CWM400 contactors)
- 9 RW407 (CWM500...800 contactors)

- 10 Mounting kit for direct panel mounting by screws or 35 mm DIN rail BF27 (RW27-1D)
- 11 Mounting kit for direct panel mounting by screws or 35 mm DIN rail BF67-1D (RW67-1D)
- **12 -** Mounting kit for direct panel mounting by screws or 35 mm DIN rail BF67-2D (RW67-2D)
- 13 Mounting kit for direct panel mounting by screws or 35 mm DIN rail BF67-5D (RW67-5D)
- **14** Mounting kit for direct panel mounting by screws or 35 mm DIN rail BF117D (RW117)
- 15 ERC_RW cable for external reset (RW17...407)
- 16 GA Connector Links for direct mounting of overload relay on contactor
- 17 IBRW317 phase barrier (RW317)
- **18** Protection covers for the BMP terminals (RW317)
- **19** BF27-2D mounting kit for direct panel mounting by screws or 35 mm DIN rail (RW27-2D)



Thermal Overload Relays - From 0.28 A to 840 A

- Thermal overload relays
- Phase-failure sensitivity according to IEC/EN 60947-4-1
- Tripping class 10
- Auxiliary contacts 1NO + 1NC
- Temperature compensation
- Hand/Auto/Reset button







For direct mounting on contactor	Setting range of overload release	Circuit diagram	Fuse (gL-gG) ¹⁾	Reference code	Weight
on contactor	(A)		A		kg
CW07, CWC0716	0.280.4		2	RW17-1D3-D004	
CW07, CWC0716	0.40.63		2	RW17-1D3-C063	
CW07, CWC0716	0.560.8		2	RW17-1D3-D008	
CW07, CWC0716	0.81.2		4	RW17-1D3-D012	
CW07, CWC0716	1.21.8		6	RW17-1D3-D018	
CW07, CWC0716	1.82.8		6	RW17-1D3-D028	
CW07, CWC0716	2.84		10	RW17-1D3-U004	0.155
CW07, CWC0716	46.3		16	RW17-1D3-D063	
CW07, CWC0716	5.68		20	RW17-1D3-U008	
CW07, CWC0716	710		25	RW17-1D3-U010	
CW07, CWC0716	812.5		25	RW17-1D3-D125	
CW07, CWC0716	1015		35	RW17-1D3-U015	
CW07, CWC0716	1117		40	RW17-1D3-U017	
CWC025	710		25	RW17-2D3-U010	
CWC025	812.5		25	RW17-2D3-D125	
CWC025	1015		35	RW17-2D3-U015	
CWC025	1117		40	RW17-2D3-U017	0.155
CWC025	1523		50	RW17-2D3-U023	
CWC025	2232	1L1 3L2 5L3 97 95	63	RW17-2D3-U032	
CWB938	0.280.4		2	RW27-2D3-D004	
CWB938	0.430.63	[]	2	RW27-2D3-C063	
CWB938	0.560.8		2	RW27-2D3-D008	
CWB938	0.81.2	2T1 4T2 6T3 98 96	4	RW27-2D3-D012	
CWB938	1.21.8	211 412 013 33 33	6	RW27-2D3-D018	
CWB938	1.82.8		6	RW27-2D3-D028	
CWB938	2.84		10	RW27-2D3-U004	
CWB938	46.3		16	RW27-2D3-D063	0.405
CWB938	5.68		20	RW27-2D3-U008	0.165
CWB938	710		25	RW27-2D3-U010	
CWB938	812.5		25	RW27-2D3-D125	
CWB938	1015		35	RW27-2D3-U015	
CWB938	1117		40	RW27-2D3-U017	
CWB938	1523		50	RW27-2D3-U023	
CWB938	2232		63	RW27-2D3-U032	
CWB938	3240		90	RW27-2D3-U040	
CWB4080	2540		80	RW67-5D3-U040	
CWB4080	3250		80	RW67-5D3-U050	
CWB4080	4057		100	RW67-5D3-U057	0.000
CWB4080	5063		100	RW67-5D3-U063	0.320
CWB4080	5770		125	RW67-5D3-U070	
CWB4080	6380		125	RW67-5D3-U080	

Thermal Overload Relays - From 0.28 A to 840 A

- Thermal overload relays
- Phase-failure sensitivity according to IEC/EN 60947-4-1
- Tripping class 10

- Auxiliary contacts 1NO + 1NC
- Temperature compensation
- Hand/Auto/Reset button







	_				
For direct mounting on contactor	Setting range of overload release (A)	Circuit diagram	Fuse (gL-gG) ¹⁾ A	Reference code	Weight kg
CWM940	0.280.4		2	RW27-1D3-D004	
CWM940	0.430.63		2	RW27-1D3-C063	
CWM940	0.560.8		2	RW27-1D3-D008	
CWM940	0.81.2		4	RW27-1D3-D012	
CWM940	1.21.8		6	RW27-1D3-D018	
CWM940	1.82.8		6	RW27-1D3-D028	
CWM940	2.84		10	RW27-1D3-U004	
CWM940	46.3		16	RW27-1D3-D063	0.165
CWM940	5.68		20	RW27-1D3-U008	
CWM940	710		25	RW27-1D3-U010	
CWM940	812.5	1L1 3L2 5L3 97 95	25	RW27-1D3-D125	
CWM940	1015	I I I I I.	35	RW27-1D3-U015	
CWM940	1117	│ ┌ ╛╸╛╸ ┪╸ √′ ゲ │	40	RW27-1D3-U017	
CWM940	1523	L S S S	50	RW27-1D3-U023	
CWM940	2232		63	RW27-1D3-U032	
CWM3240	2540	2T1 4T2 6T3 98 96	90	RW67-1D3-U040	0.000
CWM3240	3250		125	RW67-1D3-U050	0.320
CWM5080	2540		90	RW67-2D3-U040	
CWM5080	3250		125	RW67-2D3-U050	
CWM5080	4057		150	RW67-2D3-U057	0.320
CWM5080	5063		150	RW67-2D3-U063	0.320
CWM5080	5770		175	RW67-2D3-U070	
CWM5080	6380		200	RW67-2D3-U080	
CWM95105	6380		200	RW117-1D3-U080	
CWM95105	7597]	225	RW117-1D3-U097	0.490
CWM95105	90112]	250	RW117-1D3-U112	







For use with contactor	Setting range of overload release (A)	Circuit diagram	Fuse (gL-gG) ¹⁾ A	Reference code	Weight kg
	6380		200	RW117-2D3-U080	
CWM112 ²⁾	7597		225	RW117-2D3-U097	0.750
	90112	1L1 3L2 5L3 97 95	250	RW117-2D3-U112	
	100150		315	RW317-1D3-U150	
CWM112300 ²⁾ ,	140215		355	RW317-1D3-U215	1.985
CWM400 ²⁾	200310		500	RW317-1D3-U310	1.965
	275420	2T1 4T2 6T3 98 96	710	RW317-1D3-U420	
CWM500800	400600	211 412 010 00 00	1,000	RW407-1D3-U600 ³⁾	3.435
GVVIVI300000	560840		1,250	RW407-1D3-U840 ³⁾	3.433

Notes: 1) Maximum fuse;

²⁾ Allows assembly with contactor using connector links GA;
3) It is possible to connect contactors to RW407 overload relay by using GA407-1D connector links or routing contactor-to-motor cables through the Ø32 mm window available in the overload relay.



Accessories

Base for Separate Mounting

Illustrative picture	Description	For use with	Reference code	Weight (kg)
		RW27-1D	BF27D	0.050
Ð Đ Đ	Enables overload to be mounted directly to a panel via screws or DIN rail 35 mm	RW27-2D	BF27-2D	0.000
direct		RW67-1D	BF67-1D	
		RW67-2D	BF67-2D	0.095
		RW67-5D	BF67-5D	
100		RW117-1D	BF117D	0.110

Connector Links for Connection

Illustrative picture	Overload relay	Contactors	Reference code	Weight (kg)
	RW117-2D	CWM112	GA117D	0.135
	RW317	CWM112/150	GA317-1D	0.250
	RW317	CWM180	GA317-2D	0.270
	RW317	CWM250/300	GA317-3D	0.630
	RW317	CWM400	GA317-10D	0.500
	RW67-1D or RW67-2D	CWB4080	GA67-B80	0.030
	RW67-1D	CWM32/40	GA67-1D	0.030
	RW67-2D	CWM5080	GA67-2D	0.030

External Reset

Illustrative picture	Description	Flexible cable size	Reference code	Weight (kg)
10	Metallic cable for external reset suitable to all models of		ERC250RW	0.034
\sim	overload relays. Remarks: - Required hole on panel door: Ø6.57 mm - Required thickness of panel door: 2 mm4.25 mm	375 mm	ERC375RW	0.036
		500 mm	ERC500RW	0.041

Insulator Barrier

Illustrative picture	Description	For use with	Reference code	Weight (kg)
T	One plastic phase barrier + screws, to be used on the overload relay line or load side. The distance between busbars of RW317 overload relays are the minimum required in order to comply with U ₁ =1,000 V, pollution degree 3. When the distance between cables or busbars connected to the overload relay are smaller than that, phase barriers IBRW317 should be used.	RW317	IBRW317	0.044

Reset Pushbutton with Shaft

Illustrative picture	Description	For use with O/L relays	Reference code	Weight kg
	Flush RESET pushbutton with shaft / Blue color Shaft size: Min: 22.5 mm / Max: 250 mm	RW	CSW-BHF437	0.032
	Extended RESET pushbutton with shaft / Blue color Shaft size: Min: 22.5 mm / Max: 250 mm		CSW-BHS437	0.032

Cover Protection

Illustrative picture	Description	Number of parts	Use with	Reference code	Weight (kg)
	Terminal cover against accidental touches on upper and lower power terminals. Material in polycarbonate not inflammable.	2	RW317	BMPRW317	0.18
	Physical boliate flot finial finiable. This accessory assure frontal degree of protection IP20 in overloard relay.	1	RW317	BMP1RW317	0.09
	Terminal cover against accidental touch on upper power terminals of overload relay when used with connector link GA317-10D. Material in polycarbonate not inflammable. This accessory assure frontal degree of protection IP20 in overloard relay.	1	CWM400 + GA317-10D + RW317	BMP1RW317-CWM400	0.18



Technical Data

General Data and Main Contacts

Reference code		RW17	RW27	RW67	RW117	RW317	RW407	
Standards			IEC/EN 60947 / UL 508 / UL 60947					
Setting current	(A)	0.2817	0.2832	2580	75112	100420	400840	
Tripping class				1	0			
Temperature compensation				Conti	nuous			
Rated insulation voltage U	IEC/EN 60947 (V)		6	90		1,0	00	
(pollution degree 3)	UL/CSA (V)		600					
Rated impulse withstand voltage U _{imp}	(kV)	(KV) 6						
Rated operational frequency	(Hz)	0400						
Degree of protection Protection against direct contact from the perpendicular test finger (IEC/EN 60536)		d by a P20 Finger and back-of-hand proof						
Ambient temperature Operating temperature Storage temperature		-25 °C to +60 °C -40 °C to +70 °C						
Climating proof IEC/EN 60 068-2-3 IEC/EN 60 068-2-30		Damp heat. constant Damp heat. constant						
Current heat loss Lower value of setting range Higher value of setting range	(W) (W)	0.9 1.4	0.9 1.7	1.5 4.7	2.3 4.7	1 1.	9	

Auxiliary Contacts

Models			RW17	RW27	RW67	RW117	RW317	RW407
Standards			IEC/EN 60 947-4-1 and UL 508					
Rated insulation voltage Ui	IEC/EN	(V)		690				
(pollution degree 3)	UL, CSA	(V)		600				
Rated operational voltage Ue	IEC/EN	(V)			69	0		
nateu operational voltage de	UL, CSA	(V)			60	0		
Rated thermal current lth ($\theta \le 55$ °C)		(A)	6					
Rated operational current le								
	24 V	(A)			4			
	60 V	(A)		3.5				
	125 V (A)		3					
AC-14 / AC-15 (IEC/EN 60947-5-1)	230 V	(A)	2					
	400 V	(A)			1.	5		
	500 V	(A)	0.5					
	690 V	(A)			0.	3		
UL, CSA					C60	00		
	24 V	(A)			1			
DC-13 / DC-14 (IEC/EN 60947-5-1)	60 V	(A)			0.	5		
110 V (A) 0.25		25						
	220 V	(A)	0.1					
UL, CSA			R300					
Short-circuit protection with fuse (gL/gG)		(A)	6					
Minimum voltage / admissible current (IEC/EN 60947-5-4)			17 V / 5 mA					

Terminal Capacity and Tightening Torque - Main Contacts

Reference			RW17	RW27	RW67	RW117	RW	317	RW407
Current setting		(A)	0.2817	0.2832	2580	75112	100215	200420	400840
Cable size (75 °C / Cu cable)									
Flexible cable	1 cable	(mm²)	1.5	15.10		2535	35120	95150	-
Flexible cable	2 cables	(mm²)	1,510		-	-	30120	95150	
Cable with terminal or rigid cable	1 cable	(mm²)	1,56,0		6,035	2535	35120	95150	-
Cable with terminal of rigid cable	2 cables	(mm²)			-	-			
Busbar		(mm²)					Max 2x	(25x5)	Max 2x (60x10)
Tightening torque		(N.m)	2	,3	4,0	6,0	16,0	26,0	26,0
UL cable size (75 °C - Cu cable)		AWG	16	8	103	61/0	3-300 kcmil	3/0 – 600 kcmil	2x 600 kcmil 2x (1/4"x2")
Tightening torque (UL)		(lb.in)	2	10	35	53	141	230	230

Terminal Capacity and Tightening Torque - Auxiliary Contacts

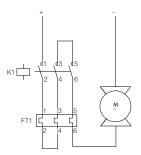
Models		RW17	RW27	RW67	RW117	RW317	RW407
Type of screws		M3.5 x 10 Philips					
Cable size (75 °C / Cu cable)							
Cable with or without terminal (mm²)				2 x 1	2.5		
AWG-wire				16.	12		
Tightening torque (N.m / lb.in)				1.5	/ 13		



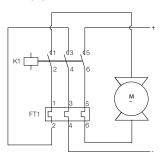
Diagrams

Motor Protection - Direct Current

1-Pole

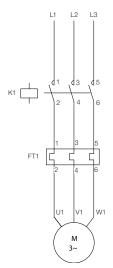


2-Pole

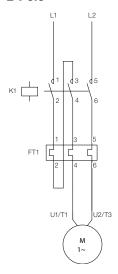


Motor Protection - Alternating Current

3-Pole



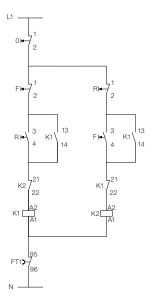
2-Pole



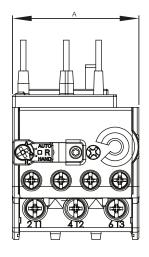
Conection Suggestion - Contactor + Overload Relay

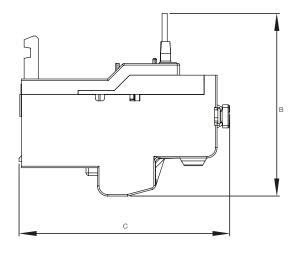
Direct On Line Starter (1 Direction of Rotation)

Direct On Line Starter (2 Directions of Rotation)

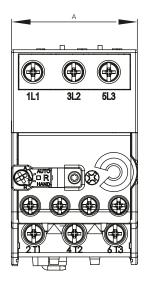


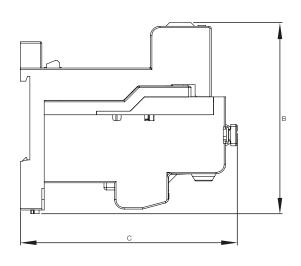






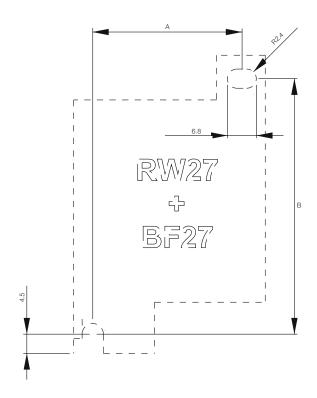
	RW17-1D RW17-2D RW27-1D RW27-2D	RW67-1D	RW67-2D	RW67-5D	RW117-1D
A	45.0	50.0	50.0	50.0	75.0
В	71.5	76.5	81.5	71.5	99.5
С	83.5	106.5	106.5	106.5	98.8



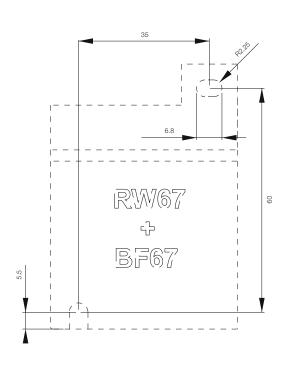


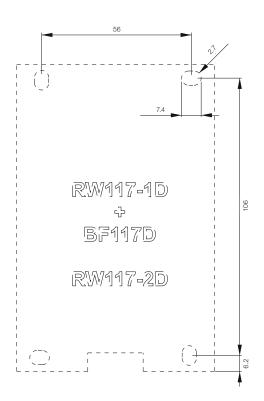
	BF27D + RW27-1D BF27-2D + RW27-2D	BF67-1D + RW67-1D BF67-2D + RW67-2D BF67-5D + RW67-5D	BF117D + RW117-1D RW117-2D
А	45.0	50.0	75.0
В	80.0	71.0	116.4
С	92.5	106.0	106.2





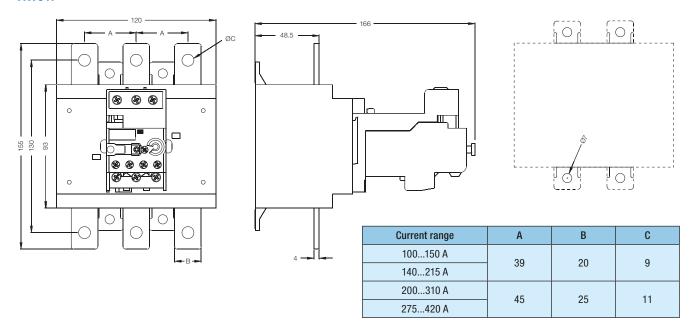
	BF27D	BF27-2D
А	34	34
В	60	65



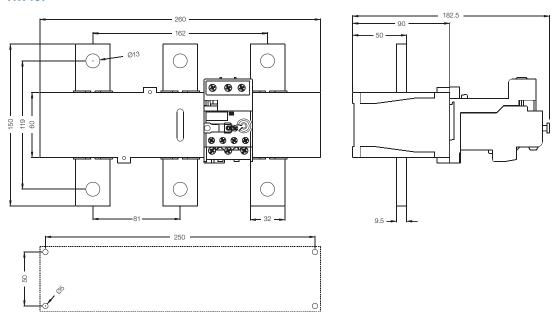




RW317

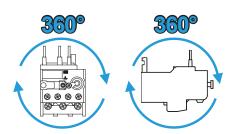


RW407

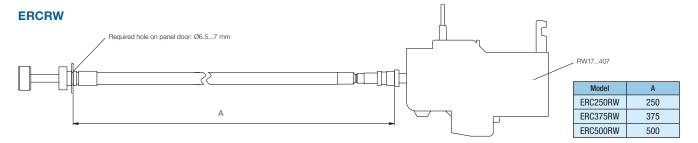


Installation

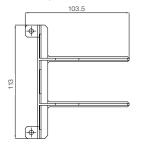
RW17...407



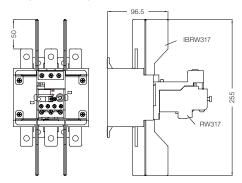




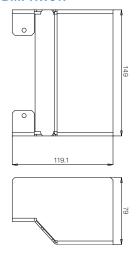
IBRW317



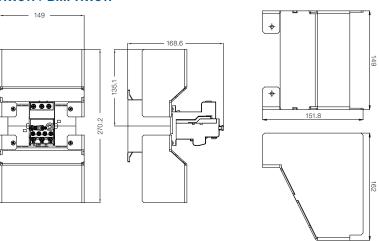
RW317+IBRW317



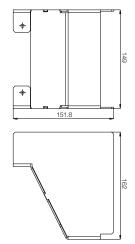
BMPRW317



RW317+ BMPRW317

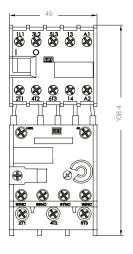


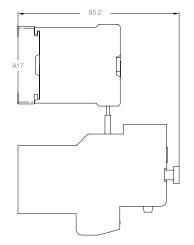
BMP1RW317-CWM400

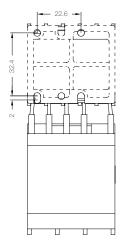




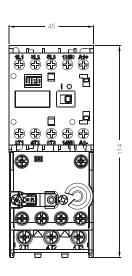
CW07 + RW17-1D

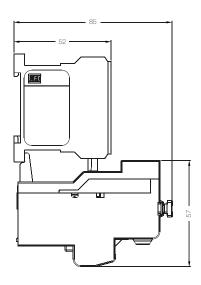


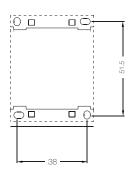




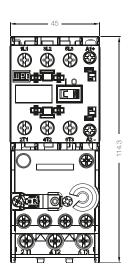
CWC07...16 + RW17-1D

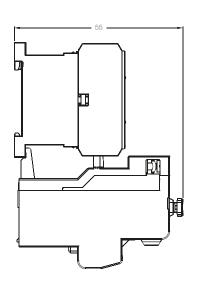


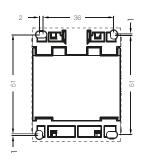




CWC025 + RW17-2D

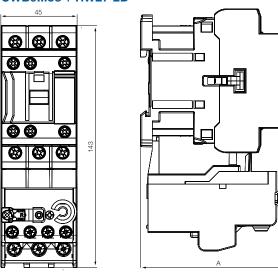


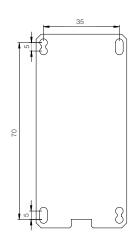






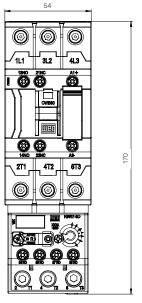
CWB9...38 + RW27-2D

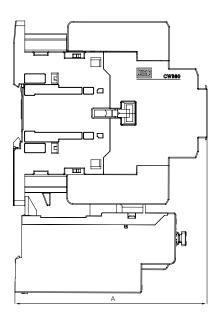


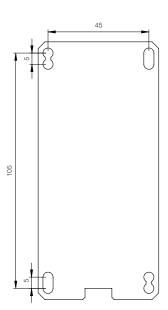


CWB938	Α
AC coil	93
DC coil	102.2

CWB40...80 + RW67-5D

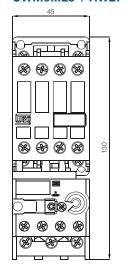


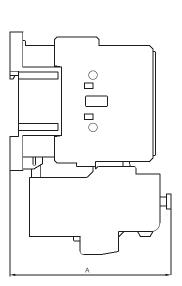


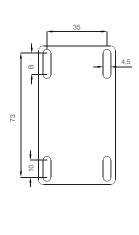


CWB4080	Α
AC coil	120.6
DC coil	120.6

CWM9...25 + RW27-1D

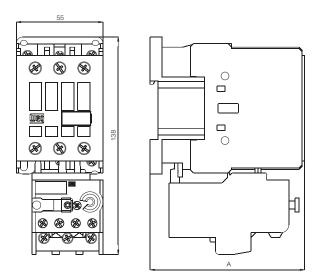


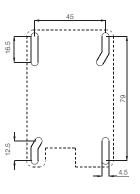




CWM925	Α	В
AC coil	94	4.8
DC coil	124	13

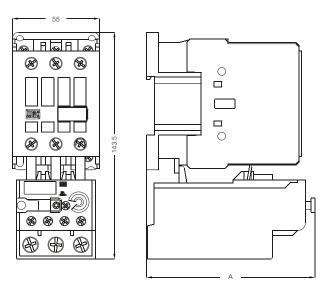
CWM32 + RW27-1D

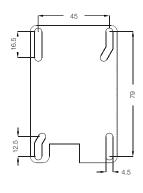




CWM32	Α
AC coil	98
DC coil	118

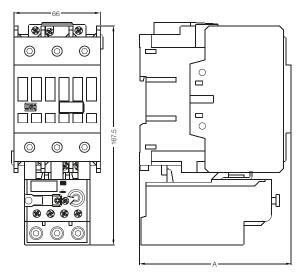
CWM32/40 + RW67-1D

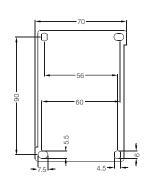




CWM32/40	А
AC coil	106.5
DC coil	126.5

CWM50...80 + RW67-2D

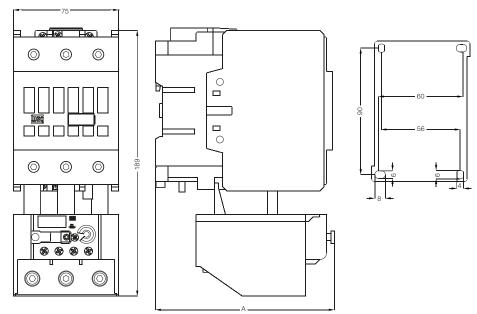




CWM5080	Α
AC coil	116
DC coil	116

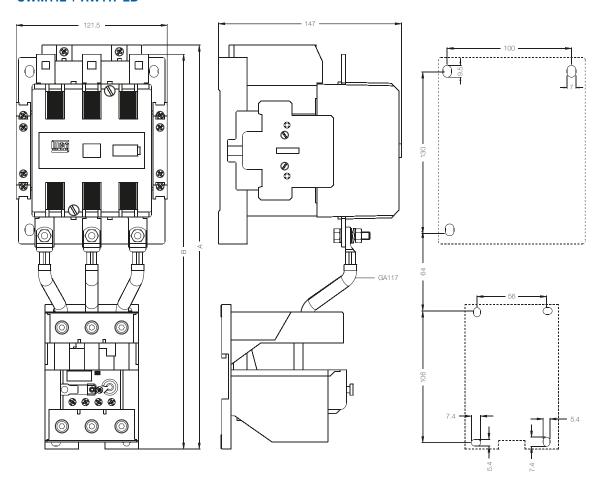


CWM95/105 + RW117-1D



CWM95/105	Α
AC coil	127.5
DC coil	127.5

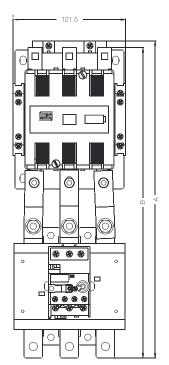
CWM112 + RW117-2D

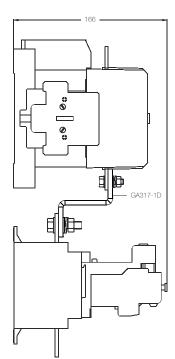


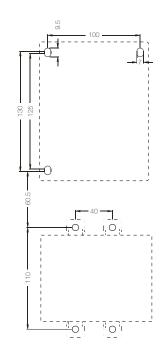
CWM112	Α	В
Standard coil	-	317.7
Electronic module	325	317.7



CWM112/150 + RW317

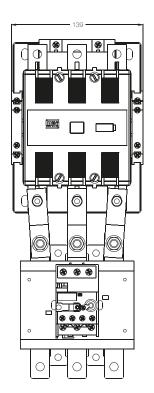


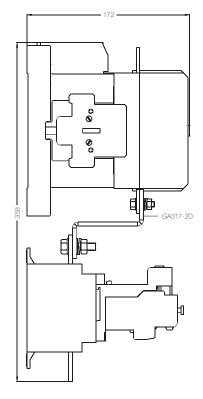


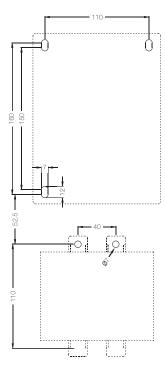


	Α	В
CWM112 (standard coil)	-	335.5
CWM112/150 (electronic module)	343	335.5

CWM180 + RW317

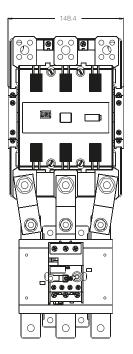


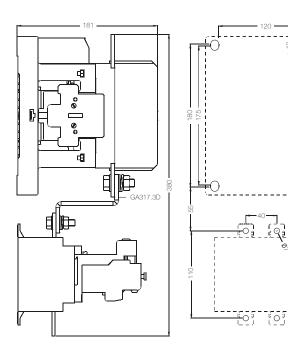




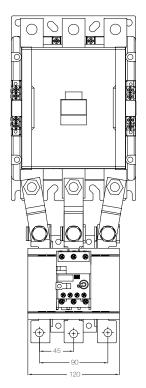


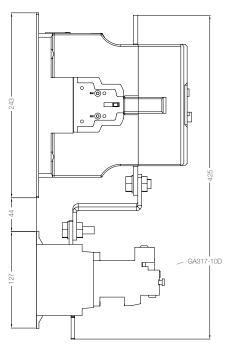
CWM250/300 + RW317

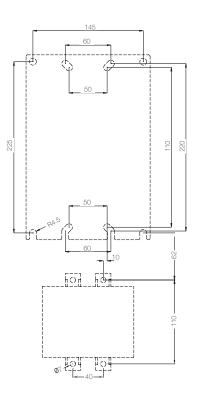




CWM400 + RW317









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