

EDITION 2020

Electronic relays and controls

SELECTION TABLES



- Time relays
- Measuring and monitoring relays
- Primary switch mode power supplies
- Interface relays and optocouplers

ABB has the industry's most comprehensive range of time relays, measuring and monitoring relays, interface relays and power supplies – helping you to source all critical components from a single global supplier.

Increase the reliability of process equipment with control devices that provide intelligent signals and smart adjustments that help you achieve maximum system availability.

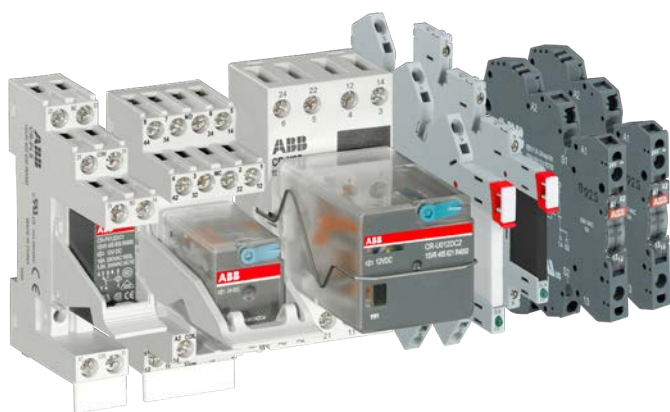
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Interface relays and optocouplers

A proven technology used worldwide

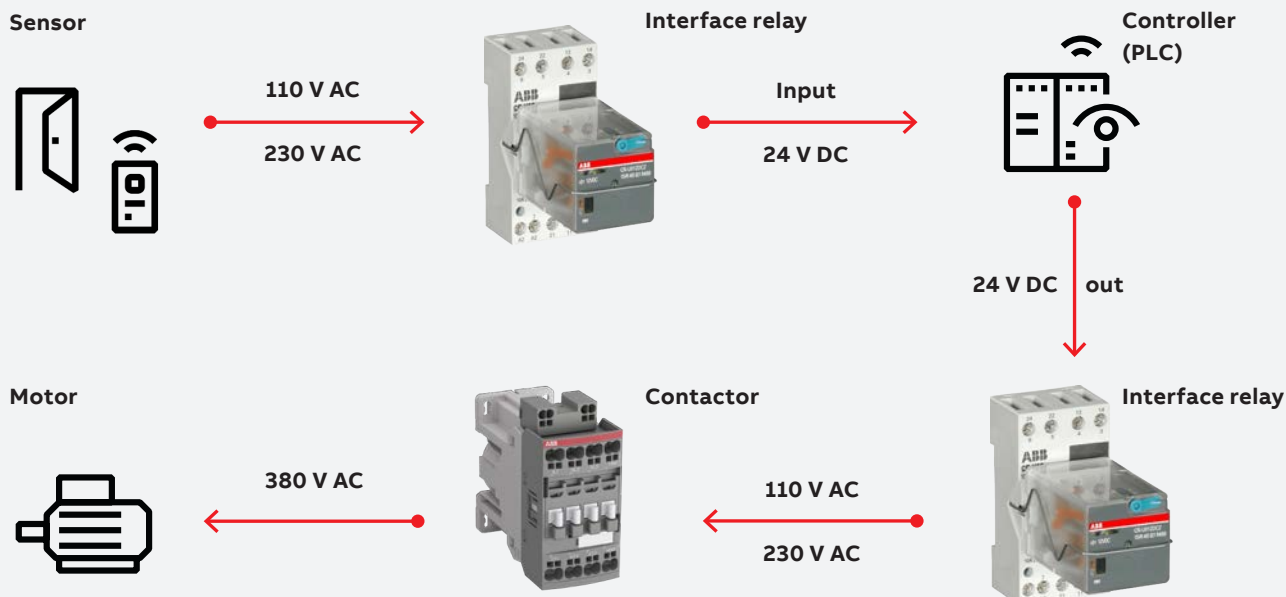
Relays are universally applicable and are utilized in a diverse array of applications. They are a significant element in contemporary industrial processes and are used in applications where galvanic isolation, signal separation, voltage coupling and signal amplification are required.



Optocouplers are predominantly used in applications where a high switching frequency is necessary. Furthermore, optocouplers do not contain any moving parts and are therefore bounce-free, immune to vibrations and possess a long electrical life. This wide selection of relays adheres to the highest global standards and satisfies the requirements for a diverse number of applications and needs.

ABB offers a complete range of interface relays and optocouplers for increased flexibility and choice. This portfolio includes pluggable relays for easy interchangeability and optocouplers for an extended electrical life. The portfolio includes electromechanical relays and optocouplers - the electromechanical relays operate using an electromagnetic field, whereas optocouplers use light.

Billions
of relays operate and
interface between control
circuits and electrical loads



Time relays

Have the perfect timing- everywhere

Available in three different ranges to cover every application, the CT range time relays are used to provide reliable timing functions worldwide. In both industrial and building applications, the time relays of the CT range have proven their excellent functionality in daily use under the toughest conditions.

Choose ABB as the partner for all your low voltage timing control needs to leverage our wide variety of product options. From economic to high-end solutions – the range offers maximum value. Time relays are found everywhere, for example in air conditioning systems, heaters and fans in industrial and in residential buildings . On-delay, off-delay and a range of other functions cover all requirements.



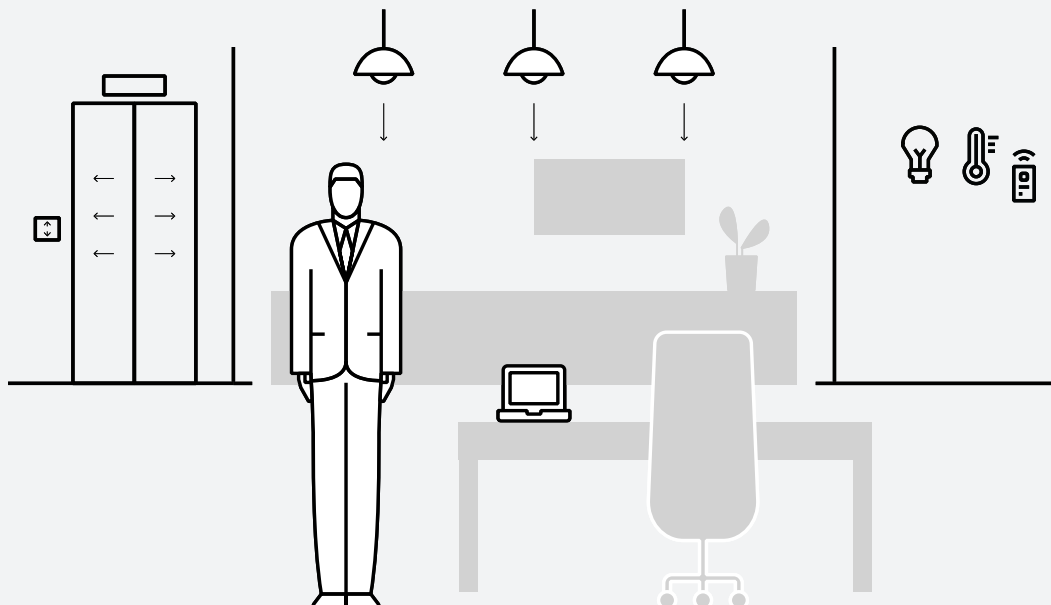
Shock

and vibration resistant

CT-S relays are perfect

for use in rolling stock

- Control panels
- Pump controls
- Star-delta motor starting
- Movable equipment like cranes
- Machine tools
- Automatic doors
- Car park barriers
- Assembly machines
- HVAC
- Compressor controls
- Transportation
- Industrial refrigeration
- Packaging machines
- Baking ovens
- Water and wastewater
- Wind
- Industrial cleaning processes



Primary switch mode power supplies

Excellent reliability in harsh environments

Available in four different ranges to cover every application requirement, ABB's CP range power supplies are used to power valuable assets worldwide.



E-mobility



Building applications



Process industry



Robotics



OEM Machine builders



Packaging industry



Food & Beverage



Renewables

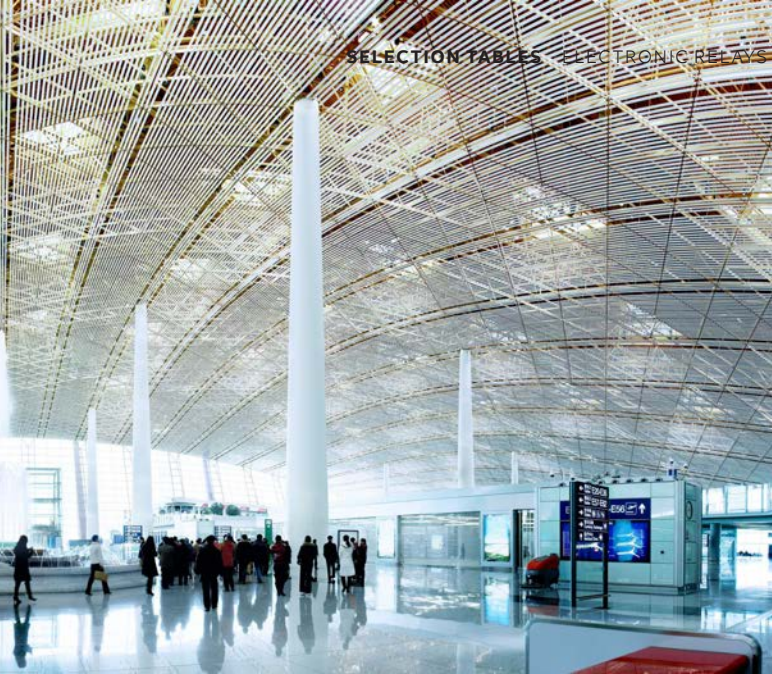


Marine



Choose ABB as your power supply partner and leverage our wide variety of product options. From economic to high-end solutions, the CP range offers maximum value. Their excellent reliability in daily use is well proven even under the toughest of conditions.





Measuring and monitoring relays

Increase process availability and take action

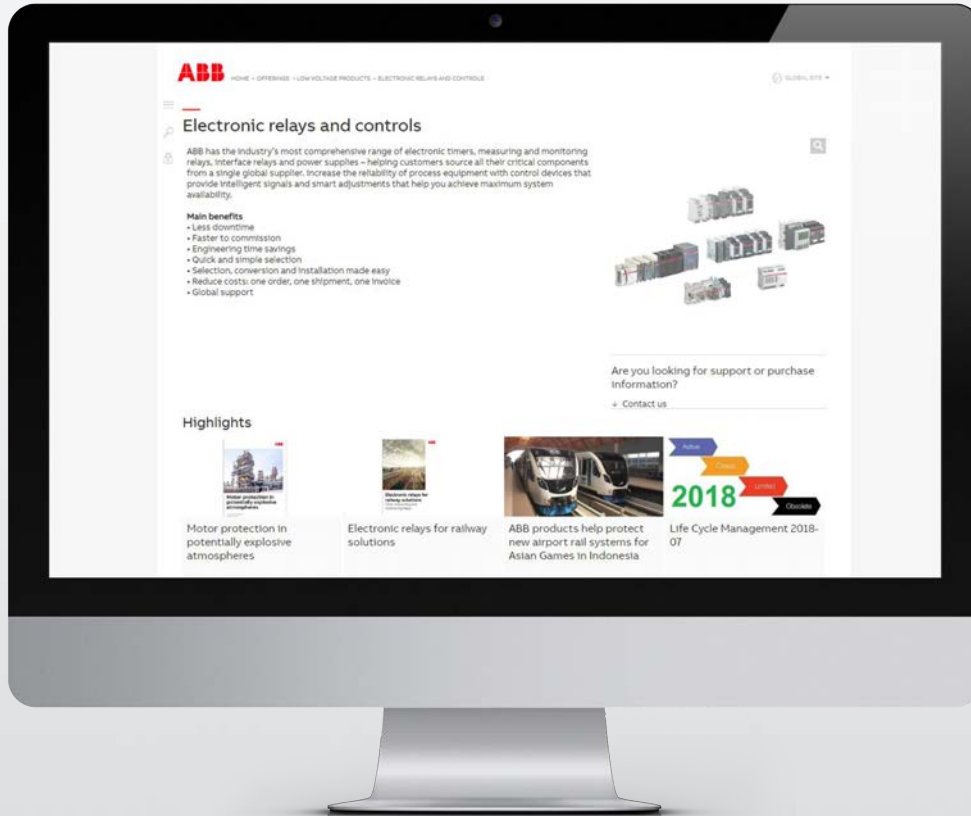
The relays inform users about abnormal conditions and allow them to take necessary corrective actions before severe and costly failures can occur.



Measuring and monitoring relays monitor and detect operating conditions with regard to phase, current, voltage, frequency, temperature, liquid level or insulation faults. The relays inform users about abnormal conditions and allow them to take necessary corrective actions before severe and costly failures can occur.

ABB offers the broadest range of measuring and monitoring relays in the industry - so you can source your critical components from a global supplier. Increase the reliability of your process equipment with controllers that deliver intelligent signals and settings to ensure maximum availability. Ensure continuous operation, engineer time savings and benefit from ABB's global support for measuring and monitoring relays.





Electronic relays and controls websites

Your one-stop shop for product information

On our web site you will also find the products in this catalog together with the current life cycle status, data sheets, certificates and tools.



3D data



**Life cycle
information**



**Coordination
tables (SOC)**

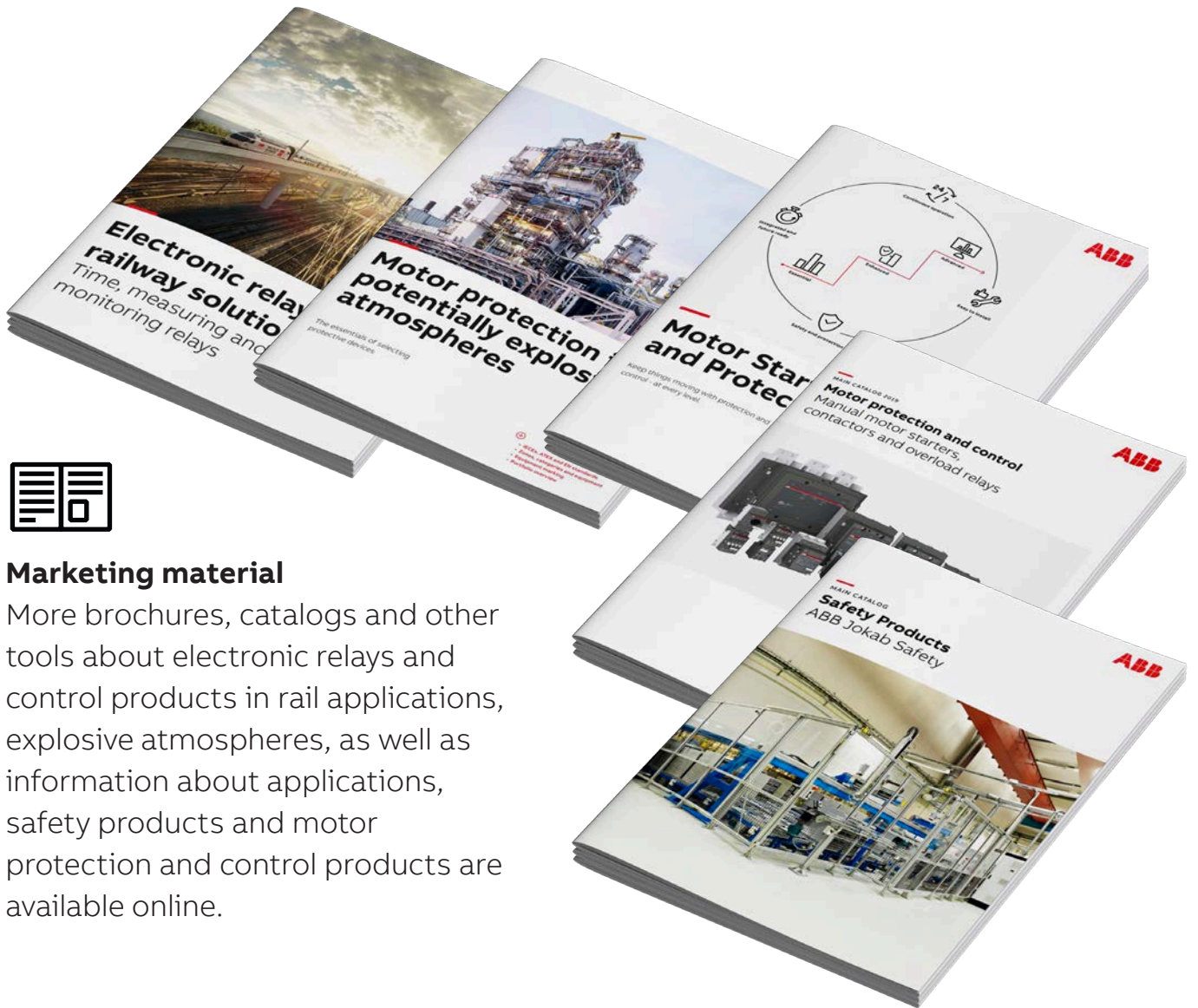


E-configure



Certificates

new.abb.com/low-voltage/products/electronicrelays



Marketing material

More brochures, catalogs and other tools about electronic relays and control products in rail applications, explosive atmospheres, as well as information about applications, safety products and motor protection and control products are available online.



Online data sheets

For detailed product information, use the order code to access the online data sheets as in the following example:

new.abb.com/products/1SVR740110R3300

ABB electronics

You can view this page in: EN DE SV FI CS DA NL ES FR HU IT JA KO PL NO PT RU SK TR ZH

Detailed information for: CT-AHS.22P

This page contains technical data sheets. Comments from suppliers to ordering related to this product. If you require any other information, please contact us using form located at the bottom of the page. [Go back](#) [Print this page](#)

[Data Sheet](#) [Downloads](#)

CT-AHS.22P

General Information

Extended Product Type	CT-AHS.22P
Product ID	1SVR740110R3300
EAN	4042779851688

Long Description

CT-AHS.22P 110V-100V, OFF-delay 0.05...24-48VDC, 0.4-240VAC

The CT-AHS.22P is a single function electronic time relay from the CT-A timer range. It provides an OFF-delay (delay on tripping) function with 20 time ranges from 0.05 s to 300 h. This time relay operates with a rated control supply voltage of 24-48 V DC / 24-240 V AC and has a 2 CUV (CUV) contact with contacts rated at 6(2) / 1.4 A. A control input works with volt-free (floating) tripping, a suitable transparent cover for protection against unauthorized changes is available as accessory. The device offers a maintenance free Easy Contact Technology with push-in terminals.

Categories

Products > Low voltage products and systems > control products > electronic relays and controls > Time Delay Relays

Ordering

EAN	4042779851688
Minimum Order Quantity	1 piece
Customs Tariff Number	85384900

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	57 mm
Package Level 1 Depth / Length	20 mm
Package Level 1 Height	105 mm
Package Level 1 Gross Weight	0.147 kg
Package Level 1 EAN	4042779851688

Dimensions

Product Net Width	25.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103 mm
Product Net Weight	0.125 kg

Technical

Timer Relay Type	OFF-Delay
Time Range	0.05 s - 300 h



Time relays

12	Offer overview
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13	CT-C range
14	CT-S range
15	CT-D range

Time relays

Offer overview

Time relays for industrial applications



CT-C: the compact range

The CT-C range combines lower cost with higher value and performance by offering essential functions in a space-saving 17.5 mm housing. The range offers a choice of 11 devices, including single and multifunctional types, with timing functions that range from 0.05 seconds to 100 hours. Equipped with a wide voltage range, the CT-C range is suitable for a huge variety of applications worldwide.



CT-S: the high-performance range

The advanced CT-S range is ABB's universal range of electronic timers. It includes 22 single-function devices and 16 multifunction time relays, offering flexibility in operation with up to 13 functions. The devices feature seven or ten time ranges, adjustable from 0.05 seconds to 300 hours. Additionally, every device is available in two different connection technologies: familiar double-chamber cage connection terminals (screw terminals) and ABB's vibration-resistant Easy Connect technology (push-in terminals).

Time relays for building applications



CT-D range

The CT-D range is ideal for building applications and installation panels, due to its compact modular housing. For maximum flexibility in operation, nine single-function as well as two multifunction devices with seven timing functions are available. The devices offer four or seven time ranges from 0.05 seconds up to 100 hours. Their wide supply voltage range allows their use in applications worldwide.

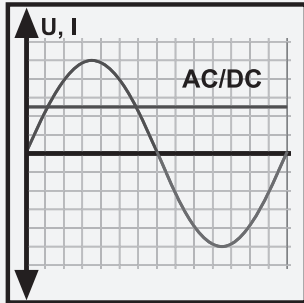


Measuring and monitoring relays

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29	Liquid level monitoring relays

Measuring and monitoring relays

Offer overview



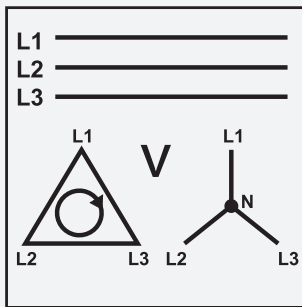
Single-phase current and voltage monitoring relays

Current monitoring

- Monitoring of motor current consumption
- Monitoring of lighting installations and heating circuits
- Monitoring of transportation equipment overload
- Monitoring of locking devices, electromechanical brake gear and locked rotors

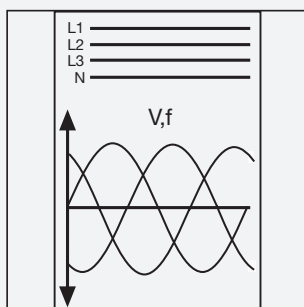
Voltage monitoring

- Speed monitoring of DC motors
- Monitoring of battery voltages and other supply networks



Three-phase monitoring relays

- Voltage monitoring of mobile three-phase equipment
- Protection of personnel and installations against phase reversal
- Monitoring of the supply voltage of machines and installations
- Protection of equipment against damage caused by unstable supply voltage
- Switching to emergency or auxiliary supply
- Protection of motors against damage caused by unbalanced phase voltages and phase loss



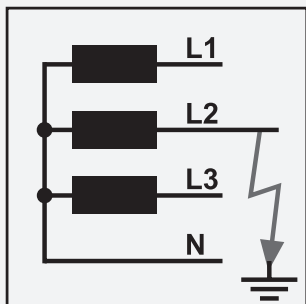
Grid feeding monitoring relays

The CM-UFx range monitors all voltage and frequency parameters in a grid and ensures the safe feeding of decentral produced electrical energy into the grid.

- Monitoring of the voltage with up to 2 thresholds for over- and undervoltage
- Monitoring of the frequency with up to 2 thresholds for over- and under-frequency
- ROCOF (rate of change of frequency) and vector shift detection
- In compliance with several local standards
- Modbus connection for selected devices

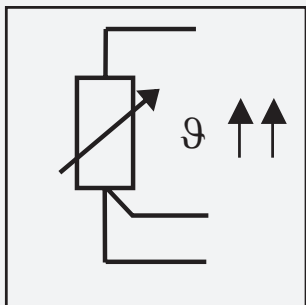
Measuring and monitoring relays

Offer overview



Insulation monitoring relays

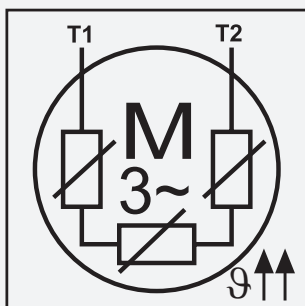
- Monitoring of electrically isolated supply mains for insulation resistance failure
- Detection of initial faults
- Protection against earth faults



Temperature monitoring relays

Acquisition, messaging and regulation of temperatures of solid, liquid and gaseous media in processes and machines

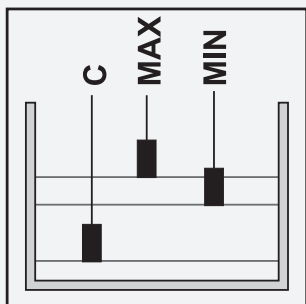
- Motor and system protection
- Control panel temperature monitoring
- Frost monitoring
- Temperature limits for process variables, e.g. in the packing or electroplating industry
- Control of systems and machines like heating, air-conditioning and ventilation systems, solar collectors, heat pumps or hot water supply systems
- Bearing, gear oil and coolant monitoring



Thermistor motor protection

CM-MSE and CM-MSS provide full protection of motors with integrated PTC resistor sensors.

Protection of motors against thermal overload, e. g. caused by insufficient cooling, heavy load starting conditions, undersized motors, etc.



Liquid level monitoring relays

- Protection of pumps against dry running
- Protection against container overflow
- Control of liquid levels
- Detection of leaks
- Control of mixing ratios

Measuring and monitoring relays

Product range



CM-N range: Multifunctional

- 45 mm wide housing
- Output contacts: 2 c/o (SPDT) contacts
- Continuous voltage range (24-240 V AC/DC) or single-supply
- Setting and operation via front-face operating controls
- Adjustment of threshold values and switching hysteresis via direct reading scale
- Adjustable time delays
- Integrated and snap-fitted front-face marker label
- Sealable transparent cover (accessory)



CM-S range: Universal and multifunctional

- Only 22.5 mm wide housing
- Output contacts: 1 or 2 c/o (SPDT) contacts
- One supply voltage range or supplied by measuring circuit
- Setting and operation via front-face operating controls
- Adjustment of threshold values and switching hysteresis via direct reading scale
- Integrated and snap-fitted front-face marker
- Snap-on housing: The relays can be placed on a DIN rail tool-free - just snap it on or remove it tool-free
- Sealable transparent cover (accessory)



CM-E range: Economy

- Only 22.5 mm wide housing
- Output contacts: 1 c/o contact or 1 n/o contact
- One supply voltage range
- One monitoring function
- Cost-efficient solution for OEM applications
- Preset monitoring ranges

Single-phase current monitoring relays

Selection table

	Type	Order number	CM-SRS.11S	CM-SRS.11P	CM-SRS.11S	CM-SRS.11P	CM-SRS.11S	CM-SRS.11P	CM-SRS.12S	CM-SRS.12S	CM-SRS.12S	CM-SRS.21S	CM-SRS.21P	CM-SRS.21S	CM-SRS.21P	CM-SRS.21S	CM-SRS.21P	CM-SRS.22S	CM-SRS.22S	CM-SRS.22S	CM-SRS.M1S	CM-SRS.M1P	CM-SRS.M2S	CM-SFS.21S	CM-SFS.21P	CM-SFS.22S		
Rated control supply voltage U_s																												
24 - 240 V AC/DC			■	■					■			■	■						■			■	■	■	■	■	■	■
110 - 130 V AC					■	■				■				■	■					■								
220 - 240 V AC							■	■								■	■				■							
Measuring ranges AC/DC																												
3 - 30 mA			■	■	■	■	■	■				■	■	■	■	■	■				■	■		■	■			
10 - 100 mA			■	■	■	■	■	■				■	■	■	■	■	■				■	■		■	■			
0.1 - 1 A			■	■	■	■	■	■				■	■	■	■	■	■				■	■		■	■			
0.3 - 1.5 A									■	■	■								■	■	■			■			■	
1 - 5 A									■	■	■								■	■	■			■			■	
3 - 15 A									■	■	■								■	■	■			■			■	
Monitoring function																												
Over- or undercurrent			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Window current monitoring																								■	■	■		
Latching																					sel	sel	sel	sel	sel	sel	sel	
Open-circuit or closed-circuit principle																					sel	sel	sel	sel	sel	sel	sel	
Timing functions for tripping delay																												
ON-delay, 0.1 - 30 s												adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj		
ON- or OFF-delay, 0.1 - 30 s																											sel	
Output																												
c/o contact			1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Connection type																												
Push-in terminals				■		■		■				■		■		■					■			■				
Double-chamber cage connection terminals			■		■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

adj: adjustable

sel: selectable

Single-phase voltage monitoring relays

Selection table

	Type	Order number																
	CM-ESS.1S	1SVR730830R0300																
	CM-ESS.1P	1SVR740830R0300																
	CM-ESS.1S	1SVR730831R0300																
	CM-ESS.1P	1SVR740831R0300																
	CM-ESS.1S	1SVR730831R1300																
	CM-ESS.1P	1SVR740831R1300																
	CM-ESS.2S	1SVR740830R0400																
	CM-ESS.2P	1SVR740830R0400																
	CM-ESS.2S	1SVR730831R0400																
	CM-ESS.2P	1SVR740831R0400																
	CM-ESS.2S	1SVR730831R1400																
	CM-ESS.2P	1SVR740831R1400																
	CM-ESS.MS	1SVR730830R0500																
	CM-ESS.MP	1SVR740830R0500																
	CM-EFS.2S	1SVR730750R0400																
	CM-EFS.2P	1SVR740750R0400																
Rated control supply voltage U_c																		
24 - 240 V AC/DC			■	■														
110 - 130 V AC					■	■						■	■					
220 - 240 V AC							■	■						■	■			
Measuring ranges AC/DC																		
3 - 30 V			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6 - 60 V			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
30 - 300 V			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
60 - 600 V			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Monitoring function																		
Over- or undervoltage			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Windows voltage monitoring																	■	■
Latching																	sel	sel
Open-circuit or closed-circuit principle																	sel	sel
Timing functions for tripping delay																		
ON-delay, 0.1 - 30 s										adj	adj	adj	adj	adj	adj	adj	adj	
ON- or OFF-delay, 0.1 - 30 s																		sel
Output																		
c/o contact			1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Connection type																		
Push-in terminals			■		■		■		■		■		■		■		■	■
Double-chamber cage connection terminals			■		■		■		■		■		■		■		■	■

adj: adjustable
sel: selectable

Three-phase monitoring relays

Selection table - singlefunctional

Type	Order number	CM-PBE	CM-PBE	CM-PVE	CM-PVE	CM-PFE	CM-PFE.2	CM-PFS.S	CM-PFS.P	CM-PSS.3IS	CM-PSS.3IP	CM-PSS.4IS	CM-PSS.4IP	CM-PVS.3IS	CM-PVS.3IP	CM-PVS.4IS	CM-PVS.4IP	CM-PVS.8IS	CM-PVS.8IP	CM-PAS.3IS	CM-PAS.3IP	CM-PAS.4IS	CM-PAS.4IP	
	1SVR550881R9400																							
	1SVR550882R9500																							
	1SVR550870R9400																							
	1SVR550871R9500																							
	1SVR550824R9100																							
	1SVR550826R9100																							
	1SVR730824R9300																							
	1SVR740824R9300																							
	1SVR730784R2300																							
	1SVR740784R2300																							
	1SVR730784R3300																							
	1SVR740784R3300																							
	1SVR730794R1300																							
	1SVR740794R1300																							
	1SVR730794R3300																							
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	1SVR740794R2300																							
	1SVR730774R1300																							
	1SVR740774R1300																							
	1SVR730774R3300																							
	1SVR740774R3300																							
Rated control supply voltage U_c																								
Phase to phase																								
160-300 V AC																								
200-400 V AC																								
200-500 V AC																								
208-440 V AC																								
300-500 V AC																								
320-460 V AC																								
380 V AC																								
380-440 V AC																								
400 V AC																								
Phase to neutral																								
185-265 V AC																								
220-240 V AC																								
Rated frequency																								
50/60 Hz																								
Suitable for monitoring																								
Single-phase mains																								
Three-phase mains																								
Monitoring function																								
Phase failure																								
Phase sequence																								
Overvoltage																								
Undervoltage																								
Unbalance																								
Neutral ⁽¹⁾																								
Thresholds																								
adjustable (adj) or fixed (fix)																								
Timing functions for tripping delay																								
ON delay																								
On and OFF delay																								
Connection type																								
Push-in terminals																								
Double-chamber cage connection terminals																								

(1) The external conductor voltage towards the neutral conductor is measured.

adj: adjustable
 sel: selectable
 fix: fixed

Three-phase monitoring relays

Selection table - multifunctional

Type	Order number	CM-MPS.11S	CM-MPS.11P	CM-MPS.21S	CM-MPS.21P	CM-MPS.31S	CM-MPS.31P	CM-MPS.41S	CM-MPS.41P	CM-MPS.23S	CM-MPS.23P	CM-MPS.43S	CM-MPS.43P	CM-MPN.52S	CM-MPN.52P	CM-MPN.62S	CM-MPN.62P	CM-MPN.72S	CM-MPN.72P
		1SVR730885R1300	1SVR740885R1300	1SVR730885R3300	1SVR740885R3300	1SVR730884R1300	1SVR740884R1300	1SVR730884R3300	1SVR740884R3300	1SVR730885R4300	1SVR740885R4300	1SVR730884R4300	1SVR740884R4300	1SVR750487R8300	1SVR760487R8300	1SVR750488R8300	1SVR760488R8300	1SVR750489R8300	1SVR760489R8300
Rated control supply voltage U_c																			
Phase to phase																			
160-300 V AC						■	■												
300-500 V AC								■	■			■	■						
350-580 V AC														■	■				
450-720 V AC																■	■		
530-820 V AC																		■	■
Phase to neutral																			
90-170 V AC		■	■																
180-280 V AC				■	■					■	■								
Rated frequency																			
50/60 Hz		■	■	■	■	■	■	■	■					■	■	■	■	■	■
50/60/400 Hz										■	■	■	■						
Suitable for monitoring																			
Mains with harmonic content										■	■	■	■						
Single-phase mains		■	■	■	■					■	■								
Three-phase mains		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Monitoring function																			
Phase failure		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Phase sequence		sel	sel	sel	sel	sel	sel	sel	sel	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj
Automatic phase sequence correction										adj	adj	adj	adj	adj	adj	adj	adj	adj	adj
Overvoltage		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Undervoltage		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Unbalance		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Interrupted neutral monitoring ¹⁾		■	■	■	■					■	■								
Thresholds																			
Adjustable (adj)		adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj
Timing functions for tripping delay																			
On- or OFF delay		adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj
Connection type																			
Push-in terminals			■		■		■		■		■		■		■		■		■
Double-chamber cage connection terminals		■		■		■		■		■		■		■		■		■	

1) The relay detects by means of a phase unbalance the interruption of the neutral conductor. The external conductor voltage towards the neutral conductor is measured too.

adj: adjustable
sel: selectable

Grid feeding monitoring relays

Selection table

	Type	Order number				
	CM-UFD.M22M	1SVR560731R3700				
	CM-UFD.M31	1SVR560730R3401				
	CM-UFD.M31M	1SVR560731R3701				
	CM-UFD.M33	1SVR560730R3402				
	CM-UFD.M33M	1SVR560731R3702				
	CM-UFD.M34M	1SVR560731R3703				
Rated control supply voltage Us						
24-240 V AC/DC			■	■	■	■
Standard						
CEI 0-21			■			
VDE AR-N 4105, VDE AR-N 4110				■	■	
ENA G98, G99					■	■
DRRG standard of DEWA						■
Rated frequency						
DC or 50 Hz			■	■	■	
DC or 50/60 Hz					■	■
Modbus RTU						
			■		■	■
Suitable for monitoring						
Single-phase mains			■	■	■	■
Three-phase mains			■	■	■	■
Monitoring function						
Over-/undervoltage			■	■	■	■
Over-/underfrequency			■	■	■	■
ROCOF (rate of change of frequency)			■	■	■	■
10 minutes average value			■	■	■	■
Vector shift				■	■	■
Thresholds						
			adj	adj	adj	adj

Insulation monitoring relays

Selection table

	Type	Order number							
	CM-IWS.2S	1SVR730670R0200							
	CM-IWS.2P	1SVR740670R0200							
	CM-IWS.1S	1SVR730660R0100							
	CM-IWS.1P	1SVR740660R0100							
	CM-IWN.1S	1SVR750660R0200							
	CM-IWN.1P	1SVR760660R0200							
	CM-IWM.10	1SVR470670R1000							
	CM-IWM.11	1SVR470670R1100							
Rated control supply voltage U_c									
24 - 240 V AC/DC			■	■	■	■	■	■	
24 V DC									■ ■
Measuring voltages									
250 V AC (L-PE)				■	■				
400 V AC (L-PE)		■	■			■	■		
690 V AC (L-PE)						■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽²⁾	
1000 V AC (L-PE)									■ ⁽³⁾
300 V DC (L-PE)			■	■					
600 V DC (L-PE)						■	■		
690 V DC (L-PE)								■ ⁽²⁾	
1000 V DC (L-PE)						■ ⁽¹⁾	■ ⁽¹⁾		■ ⁽³⁾
Measuring range									
1 - 100 kΩ		■	■	■	■	■	■		
2 - 200 kΩ						■	■		
2 - 250 kΩ								■	■
System leakage capacitance, max.									
10 μF		■	■	■	■				
20 μF						■	■		
1000 μF								■	
3000 μF									■
Output									
1 c/o		■	■	■	■				
1 x 2 c/o or 2 x 1 c/o						■	■		
2 c/o								■	■
Operating principle									
Open-circuit principle		■	■	■	■			■	■
Open- or closed-circuit principle adjustable						■	■		
Test									
Front-face button or control input		■	■	■	■	■	■	■	■
Reset									
Front-face button or control input		■	■	■	■	■	■	■	■
Fault storage / latching configurable		■	■	■	■	■	■		
Non volatile storage configurable		■	■	■	■	■	■		
Interrupted wire detection						■	■	■	■
Threshold values configurable		1	1	1	1	2	2	2	2
Control input (measuring input deactivation)									■
Connection type									
Push-in terminals			■		■		■		
Double-chamber cage connection terminals		■		■		■			
Screw terminals								■	■

1) With coupling unit CM-IVN screw version CM-IVN.S: 1SVR750669R9400
push-in version CM-IVN.P: 1SVR760669R9400

2) Allowed voltage range of the supervised network: 0-760 V AC / 0-1000 V

3) Allowed voltage range of the supervised network: 0-1100 V AC / 0-1500 V DC

Thermistor motor protection relays

Selection table

	Type	Order code	1SVR50805R9300	1SVR50800R9300	1SVR50801R9300	1SVR740720R1400	1SVR730720R1400	1SVR740700R0100	1SVR730700R0100	1SVR740700R2100	1SVR730700R2100	1SVR740722R1400	1SVR730722R1400	1SVR740700R0200	1SVR730700R0200	1SVR740700R2200	1SVR730700R2200	1SVR740712R1400	1SVR730712R1400	1SVR740712R0200	1SVR730712R0200	1SVR740712R2200	1SVR730712R2200	1SVR740712R1200	1SVR730712R1200	1SVR740712R1300	1SVR730712R1300	
Characteristics																												
ATEX approval						■	■					■	■					■	■	■	■	■	■	■	■	■	■	
Number of sensor circuits		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
Single or accumulative evaluation																									■	■		
Number of LEDs						3	3	2	2	2	2	3	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	
Contacts																												
1 c/o (SPDT) contact								■	■	■	■																	
2 c/o (SPDT) contacts														■	■	■	■			■	■	■	■	■	■			
1 n/o		■	■	■																								
1 n/c and 1 n/o						■	■					■	■					■	■									
2 x 1 c/o or 1 x 2 c/o contacts, configurable																										■	■	
Reset																												
Manual														■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Remote														■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Auto		■	■	■	■	■	■	■	■	■	■	■	■	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽¹⁾	■ ⁽²⁾	■ ⁽²⁾	
Test button																												
Functions																												
Short-circuit detection														■	■					■	■	■	■	■				
Short-circuit detection, configurable																									■	■	■	■
Dynamic interrupted wire detection						■	■					■	■							■	■	■	■	■	■	■	■	
Non-volatile fault storage						■	■					■	■							■	■							
Non-volatile fault storage, configurable																									■	■	■	■
Rated control supply voltage U_c																												
24 V AC		■																										
110-130 V AC			■																									
220-240 V AC				■																								
24-240 V AC/DC					■	■						■	■							■	■			■	■	■	■	
24 V AC/DC								■	■					■	■					■	■							
110-130 V AC, 220-240 V AC										■	■					■	■					■	■					
Connection type																												
Push-in terminals						■		■		■		■		■		■		■		■		■		■		■		
Double-chamber cage connection terminals																												
Screw		■	■	■																								

1) For automatic reset, connect terminals S1 to T2.
 2) For automatic reset, connect Terminals S1 to 1T2/2T2.

Liquid level monitoring relays

Selection table

	Type	Order code																	
	CM-ENE MIN	1SVR550855R9500																	
	CM-ENE MIN	1SVR550850R9500	■																
	CM-ENE MIN	1SVR550851R9500		■															
	CM-ENE MAX	1SVR550855R9400			■														
	CM-ENE MAX	1SVR550850R9400				■													
	CM-ENE MAX	1SVR550851R9400					■												
	CM-ENS.11S	1SVR730850R0100						■	■										
	CM-ENS.11P	1SVR740850R0100								■	■								
	CM-ENS.13S	1SVR730850R2100									■	■							
	CM-ENS.13P	1SVR740850R2100										■	■						
	CM-ENS.21S	1SVR730850R0200											■	■					
	CM-ENS.21P	1SVR740850R0200												■	■				
	CM-ENS.23S	1SVR730850R2200													■	■			
	CM-ENS.23P	1SVR740850R2200														■	■		
	CM-ENS.31S	1SVR730850R0300															■	■	
	CM-ENS.31P	1SVR740850R0300																■	■
Rated control supply voltage Us																			
24-240 V AC/DC																			
24 V AC			■																
110-130 V AC				■															
220-240 V AC					■														
Sensor circuit																			
Number of electrodes (including ground reference)			2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
Response sensitivity range																			
0-100 kOhm			■	■	■	■	■	■											
5-100 kOhm									adj	adj	adj	adj							
0.1-1000 kOhm													adj	adj	adj	adj	adj	adj	adj
Monitoring function																			
Dry running protection			■	■	■				■	■	■	■	■	■	■	■	■	■	■
Overflow protection						■	■	■	■	■	■	■	■	■	■	■	■	■	■
Liquid level control						■	■	■	■	■	■	■	■	■	■	■	■	■	■
Operating principle																			
Open-circuit principle			■	■	■				■	■	■	■							
Closed-circuit principle						■	■	■											
Open- or closed-circuit principle													sel	sel	sel	sel	sel	sel	sel
Adjustable ON-/OFF-delay																			
0.1-10 s																			■
Output contacts																			
n/o			1	1	1	1	1	1											
c/o (SPDT)									1	1	1	1	1	1	1	1	1	2	2
Connection type																			
Push-in terminals										■		■		■		■			■
Double-chamber cage connection terminals									■		■		■		■			■	
Screw			■	■	■	■	■	■											

adj: adjustable
sel: selectable



Primary switch mode power supplies

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Primary switch mode power supplies

Offer overview

Power supplies for building applications



CP-D range

Distribution panel design

The CP-D range of power supply units in MDRC design (modular DIN rail components) fits into all domestic installation and distribution panels. With their width between 18 to 90 mm only, the CP-D range switch mode power supplies are ideally suited for installation in distribution panels. The range is optimized for world-wide applications: The CP-D power supplies can be supplied with 90-264 V AC or 120-375 V DC. The continuously adjustable output voltage (CP-D > 10 W) ensures optimal adaption to the application, e.g. compensating the voltage drop caused by a long line length. Additional redundancy unit CP-RUD available to establish true redundancy is available.

Power supplies for industrial applications



CP-E range

Economy range

The CP-E range offers enhanced functionality while the number of different types has been considerably reduced. Now all power supply units can be operated at an ambient temperature of up to +70 °C. The CP-E range 24 V devices over 18 W offer an output/contact for monitoring of the output voltage and remote diagnosis. Optimized for world-wide applications, the CP-E power supplies can be supplied within a wide range of AC or DC voltage. The output voltage is continuously adjustable, ensuring optimal adaptation to the application, e.g. compensating the voltage drop caused by a long line length. For decoupling of parallel connected power supplies below or equal 56 V, redundancy modules are available in order to achieve true redundancy.



CP-T Three-phase range

The CP-T range of three-phase power supply units perfectly complements existing power supply offering in terms of design and functionality, giving you more advanced options for your three-phase applications. Solid state output for function monitoring and remote diagnostics is available. The range is to be used in 340 - 575 V AC or 480 - 820 V DC supply systems. Its continuously adjustable output voltage ensures optimal adaptation to the application, e.g. compensating the voltage drop caused by a long line length.

Primary switch mode power supplies

Offer overview

Power supplies for industrial applications



CP-C.1 range

High-performance range

The CP-C.1 power supplies are ABB's high-performance and most advanced range. With excellent efficiency, high reliability and innovative functionality it is prepared for the most demanding industrial applications. These power supplies have a 150 % integrated power reserve and operate at an efficiency of up to 94 %. They are equipped with overheat protection and active power factor correction. Combined with a broad AC and DC input voltage range and extensive worldwide approvals the CP-C.1 power supplies are the preferred choice for professional DC applications. Giving the power to control.



CP-B range

Short time buffers

ABB offers an innovative and completely maintenance-free product range for buffering the 24 V DC supply in case of interrupted mains on the primary side of the switch mode power supply.

- Ultra cap based buffer modules for short time UPS systems
- Rated input voltage 24 V DC
- Rated currents 3 A, 10 A and 20 A
- Expandable with CP-B EXT.2 module
- LEDs for status indication
- High efficiency, higher than 90%
- Signaling and status outputs
- Buffering times at 100% load current from 13 s to 38 s (depending on device)

Primary switch mode power supplies

Selection table - Single phase

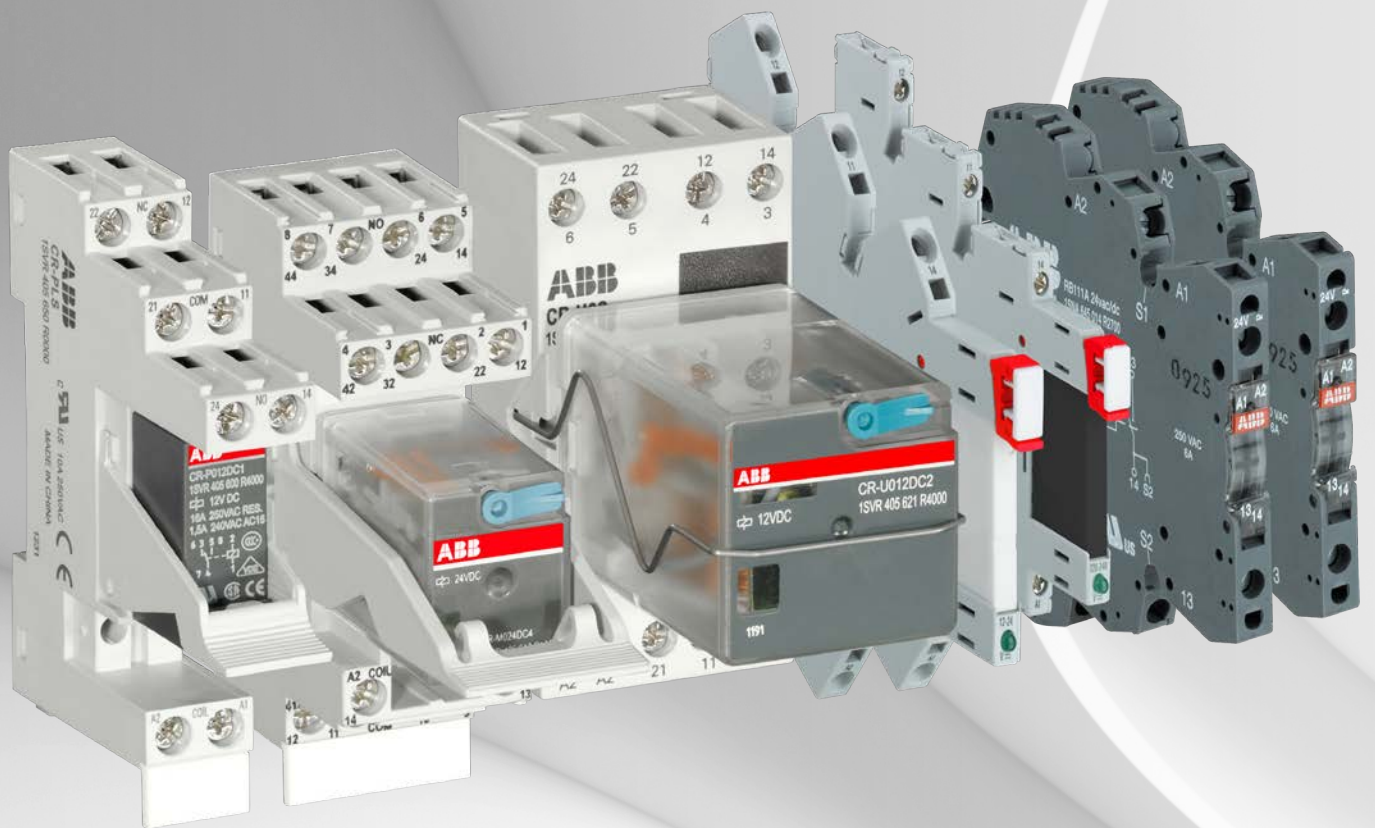
	Order number	Single-phase																			
		CP-D					CP-E										CP-C.1				
Rated output voltage	5 V DC						■														
	12 V DC	■	■					■	■												
	24 V DC			■	■	■	■			■	■	■	■	■	■				■	■	■
	48 V DC																		■	■	■
Rated output current	0.42 A			■																	
	0.625 A																				
	0.75 A									■											
	0.83 A	■																			
	1.25 A																				
	1.3 A				■																
	2.1 A		■																		
	2.5 A					■															
	3 A						■														
	4.2 A							■													
	Rated output power	10 W	■		■																
15 W							■														
18 W											■										
25 W			■																		
30 W					■							■									
60 W						■							■								
100 W							■							■							
120 W								■					■						■		
Rated input voltage	100-240 V AC	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	115/230 V AC auto select							■				■	■		■						
	115-230 V AC												■					■			
DC input voltage range	90-300 V DC																	■	■	■	■
	90-375 V DC							■			■	■			■	■					
	120-375 V DC	■	■	■	■	■	■			■			■								■
	210-375 V DC												■	■							■
Features	Power reserve design																	■	■	■	■
	Adjustable output voltage		■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Integrated input fuse	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Short-circuit stable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Fold-forward behavior (U/I)	■			■	■	■			■	■	■	■	■	■	■	■	■	■	■	■
	Fold-back behavior (hiccup)	■	■				■		■												
	Power factor correction										pas			pas	pas	act			pas	act	
	Signalling contact																		■	■	■
	Extended temp. range	■	■	■	■	■	■			■	■	■	■	■	■	■	■			■	■
	Parallel connection							■	■	3	■	■	■	3	3	3	■	■	3	3	5
	Serial connection	■	■	■	■	■	■	■	■	2	■	■	■	2	2	2	■	■	2	2	2
Coated PCBA																				■	

pas = passive, act = active

Primary switch mode power supplies

Selection table - Three phase

		Order number	1SVR427054R0000	1SVR427055R0000	1SVR427056R0000	1SVR427057R0000	1SVR427054R2000	1SVR427055R2000	1SVR427056R2000	
		Three-phase								
		CP-T								
Rated output voltage	24 V DC	■	■	■	■					
	48 V DC						■	■	■	
Rated output current	5 A	■					■			
	10 A		■					■		
	20 A			■					■	
	40 A				■					
Rated output power	120 W	■								
	240 W		■				■			
	480 W			■				■		
	960 W				■				■	
Rated input voltage	3 x 400-500 V AC	■	■	■	■	■	■	■	■	
DC input voltage range	480-820 V DC	■	■	■	■	■	■	■	■	
Features	Adjustable output voltage	■	■	■	■	■	■	■	■	
	Integrated input fuse	■	■	■	■	■	■	■	■	
	Short-circuit stable	■	■	■	■	■	■	■	■	
	Fold forward behavior (U/I)	■	■	■			■	■		
	Fold back behavior (hiccup)	■	■	■	■	■	■	■	■	
	Extended temp. range	■	■	■	■	■	■	■	■	
	Signalling contact	■	■	■	■					
	Parallel connection		2	2	2	2	2	2	2	
	Serial connection		2	2	2	2	2	2	2	



Interface relays and optocouplers

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43	CR-P range
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51	CR-M range complete versions
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54	CR-U range
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57	Boxed interface relays R600 range

Interface relays and optocouplers

Offer overview



CR-S range

The slim line of interface relays and optocouplers

The pluggable interface relays and optocouplers of the CR-S Range are used for electrical isolation, amplification and signal matching between the electronic controlling, e.g. PLC, field bus systems and the sensor / actuator level. The CR-S Range combines the flexibility of a modular system and the ability of switching high currents on a small footprint thus can be used in applications where space saving is essential. The CR-S range also includes complete versions consisting of a relay, socket and marker.



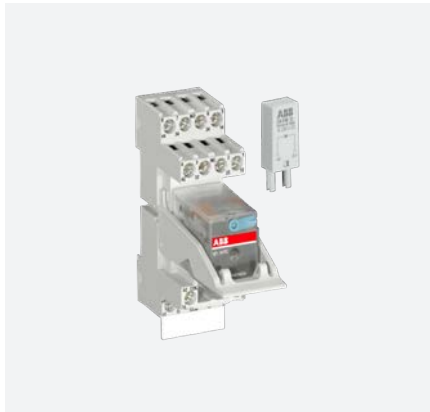
CR-P range

The pluggable PCB interface relays and optocouplers

The pluggable interface relays of the CR-P range are used for electrical isolation, amplification and signal matching between the electronic controlling, e.g. PLC, field bus systems and the sensor / actuator level. The CR-P range offers highest current switching in an IP67 rated relay housing. Furthermore, nine different coil voltages are available to suit world wide applications and even gold contact version are available which is essential when it comes to switch sensitive signals. The CR-P range also includes complete versions consisting of a relay, socket, holder, marker and function module.

Interface relays and optocouplers

Offer overview



CR-M range

The pluggable miniature interface relays

The pluggable interface relays of the CR-M range are used for electrical isolation, amplification and signal matching between the electronic controlling, e.g. PLC, field bus systems and the sensor / actuator level. The CR-M range offers up to 4 contacts in one relay and a built in test button which makes a circuit check fast and easy. 14 different coil voltages are available to suit world wide applications and even gold contact versions are available which is essential when it comes to switch sensitive signals. The CR-M range also includes complete versions consisting of a relay, socket, holder, marker and where applicable a function module.



CR-U range

The pluggable universal interface relays

The pluggable interface relays of the CR-U range are used for electrical isolation, amplification and signal matching between the electronic controlling, e.g. PLC, field bus systems and the sensor / actuator level. The CR-U range offers up to 3 contacts in one relay and a built in test button which makes a circuit check fast and easy. 13 different coil voltages are available to suit world wide applications.



R600 range

Boxed interface relays and optocouplers

Boxed interface relays of the R600 range are used for electrical isolation, amplification and signal matching between the electronic controlling, e.g. PLC, field bus systems and the sensor / actuator level. The relay itself is built in thus the perfect solution because this design fulfills highest vibration requirements. The compact design and different connection terminal possibilities further optimize your panel installation.

CR-S range

Selection table



How to use the selection table

Choose the desired control supply voltage from the column "Control voltage", e.g. "5 V DC".

Choose the desired kind of connection terminal from the column "Connection terminal", e.g. "spring".

Choose the desired material of contact from the column "Contact Material" e.g. "gold plated".

Control voltage	Connection terminal	Contact material	Socket type	Socket order code	Relay type	Relay order code
5 V DC	screw	standard	CR-S006/024VDC1SS	1SVR405521R1100	CR-S005VDC1R	1SVR405501R1010
		gold plated	CR-S006/024VDC1SS	1SVR405521R1100	CR-S005VDC1RG	1SVR405501R1020
	spring	standard	CR-S006/024VDC1SZ	1SVR405521R1200	CR-S005VDC1R	1SVR405501R1010
		gold plated	CR-S006/024VDC1SZ	1SVR405521R1200	CR-S005VDC1RG	1SVR405501R1020
12 V AC	screw	standard	CR-S012/024VADC1SS	1SVR405521R3100	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S012/024VADC1SS	1SVR405521R3100	CR-S012VDC1RG	1SVR405501R2020
	spring	standard	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S012VDC1RG	1SVR405501R2020



Example

When you have chosen 5 V DC as control supply voltage, spring connection as connection terminal and gold plated as contact material the following order codes and type designators are valid:

Socket: CR-S006/024VDC1SZ, 1SVR405521R1200

Relay: CR-S005VDC1RG, 1SVR405501R1020

CR-S range

Selection table

CR-S range relay assemblies

Control voltage	Connection terminal	Contact material	Socket type	Socket order code	Relay type	Relay order code
5 V DC	screw	standard	CR-S006/024VDC1SS	1SVR405521R1100	CR-S005VDC1R	1SVR405501R1010
		gold plated	CR-S006/024VDC1SS	1SVR405521R1100	CR-S005VDC1RG	1SVR405501R1020
	spring	standard	CR-S006/024VDC1SZ	1SVR405521R1200	CR-S005VDC1R	1SVR405501R1010
		gold plated	CR-S006/024VDC1SZ	1SVR405521R1200	CR-S005VDC1RG	1SVR405501R1020
12 V DC	screw	standard	CR-S006/024VDC1SS or CR-S012/024VADC1SS	1SVR405521R1100 or 1SVR405521R3100	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S006/024VDC1SS or CR-S012/024VADC1SS	1SVR405521R1100 or 1SVR405521R3100	CR-S012VDC1RG	1SVR405501R2020
	spring	standard	CR-S006/024VDC1SZ or CR-S012/024VADC1SZ	1SVR405521R1200 or 1SVR405521R3200	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S006/024VDC1SZ or CR-S012/024VADC1SZ	1SVR405521R1200 or 1SVR405521R3200	CR-S012VDC1RG	1SVR405501R2020
12 V AC	screw	standard	CR-S012/024VADC1SS	1SVR405521R3100	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S012/024VADC1SS	1SVR405521R3100	CR-S012VDC1RG	1SVR405501R2020
	spring	standard	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S012VDC1R	1SVR405501R2010
		gold plated	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S012VDC1RG	1SVR405501R2020
24 V DC	screw	standard	CR-S006/024VDC1SS or CR-S012/024VADC1SS	1SVR405521R1100 or 1SVR405521R3100	CR-S024VDC1R	1SVR405501R3010
		gold plated	CR-S006/024VDC1SS or CR-S012/024VADC1SS	1SVR405521R1100 or 1SVR405521R3100	CR-S024VDC1RG	1SVR405501R3020
	spring	standard	CR-S006/024VDC1SZ or CR-S012/024VADC1SZ	1SVR405521R1200 or 1SVR405521R3200	CR-S024VDC1R	1SVR405501R3010
		gold plated	CR-S006/024VDC1SZ or CR-S012/024VADC1SZ	1SVR405521R1200 or 1SVR405521R3200	CR-S024VDC1RG	1SVR405501R3020
24 V AC	screw	standard	CR-S012/024VADC1SS	1SVR405521R3100	CR-S024VDC1R	1SVR405501R3010
		gold plated	CR-S012/024VADC1SS	1SVR405521R3100	CR-S024VDC1RG	1SVR405501R3020
	spring	standard	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S024VDC1R	1SVR405501R3010
		gold plated	CR-S012/024VADC1SZ	1SVR405521R3200	CR-S024VDC1RG	1SVR405501R3020
48 V AC/DC	screw	standard	CR-S048/060VADC1SS	1SVR405521R5100	CR-S048VDC1R	1SVR405501R4010
		gold plated	CR-S048/060VADC1SS	1SVR405521R5100	CR-S048VDC1RG	1SVR405501R4020
	spring	standard	CR-S048/060VADC1SZ	1SVR405521R5200	CR-S048VDC1R	1SVR405501R4010
		gold plated	CR-S048/060VADC1SZ	1SVR405521R5200	CR-S048VDC1RG	1SVR405501R4020
60 V AC/DC	screw	standard	CR-S048/060VADC1SS	1SVR405521R5100	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S048/060VADC1SS	1SVR405521R5100	CR-S060VDC1RG	1SVR405501R5020
	spring	standard	CR-S048/060VADC1SZ	1SVR405521R5200	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S048/060VADC1SZ	1SVR405521R5200	CR-S060VDC1RG	1SVR405501R5020
110-125 V AC/DC	screw	standard	CR-S110/125VADC1SS	1SVR405521R6100	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S110/125VADC1SS	1SVR405521R6100	CR-S060VDC1RG	1SVR405501R5020
	spring	standard	CR-S110/125VADC1SZ	1SVR405521R6200	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S110/125VADC1SZ	1SVR405521R6200	CR-S060VDC1RG	1SVR405501R5020
220-240 V AC/DC	screw	standard	CR-S220/240VADC1SS	1SVR405521R7100	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S220/240VADC1SS	1SVR405521R7100	CR-S060VDC1RG	1SVR405501R5020
	spring	standard	CR-S220/240VADC1SZ	1SVR405521R7200	CR-S060VDC1R	1SVR405501R5010
		gold plated	CR-S220/240VADC1SZ	1SVR405521R7200	CR-S060VDC1RG	1SVR405501R5020

CR-S optocoupler range relay assemblies

Control voltage	Connection terminal	Output characteristics	Socket type	Socket order code	Opto type	Opto order code
24 V DC	screw	Transistor 100 mA - 48 V DC	CR-S012/024VADC1SS	1SVR405521R3100	CR-S024VDC1TRA	1SVR405510R3050
	spring		CR-S012/024VADC1SZ	1SVR405521R3200	CR-S024VDC1TRA	1SVR405510R3050
	screw	MOS-FET 2 A - 24 V DC	CR-S012/024VADC1SS	1SVR405521R3100	CR-S024VDC1MOS	1SVR405510R3060
	spring		CR-S012/024VADC1SZ	1SVR405521R3200	CR-S024VDC1MOS	1SVR405510R3060
	screw	Triac 2 A - 240 V AC	CR-S012/024VADC1SS	1SVR405521R3100	CR-S024VDC1TRI	1SVR405510R3070
	spring		CR-S012/024VADC1SZ	1SVR405521R3200	CR-S024VDC1TRI	1SVR405510R3070

CR-S range complete versions

Selection table - List of components



The complete versions of the CR-S range comprise of a pluggable interface relay, socket and marker.

CR-S complete versions

Complete versions		Type	Relay				Socket					
Order code	Type		CR-S024VDC1R	CR-S024VDC1RG	CR-S060VDC1R	CR-S060VDC1RG	CR-S012/024VADC1S	CR-S012/024VADC1SZ	CR-S110/125VADC1S	CR-S110/125VADC1SZ	CR-S220/240VADC1S	CR-S220/240VADC1SZ
1SVR405541R3110	CR-S024VADC1CRS	■	■				■					
1SVR405541R3120	CR-S024VADC1CRGS			■			■					
1SVR405541R3210	CR-S024VADC1CRZ		■					■				
1SVR405541R3220	CR-S024VADC1CRGZ			■				■				
1SVR405541R6110	CR-S110VADC1CRS				■				■			
1SVR405541R6120	CR-S110VADC1CRGS				■				■			
1SVR405541R6210	CR-S110VADC1CRZ				■					■		
1SVR405541R6220	CR-S110VADC1CRGZ				■					■		
1SVR405541R7110	CR-S230VADC1CRS			■							■	
1SVR405541R7120	CR-S230VADC1CRGS				■						■	
1SVR405541R7210	CR-S230VADC1CRZ			■								■
1SVR405541R7220	CR-S230VADC1CRGZ				■							■

CR-P range

Selection table

CR-P complete versions

Type	Order code																						
	CR-P012DC1SS42V	1SVR405600R4010																					
	CR-P024DC1SS42V	1SVR405600R1010																					
	CR-P024DC1LC42V	1SVR405600R1011																					
	CR-P024DC1LC62C	1SVR405600R1013																					
	CR-P110DC1SS42CV	1SVR405600R8010																					
	CR-P024AC1SS62CV	1SVR405600R0010																					
	CR-P120AC1SS92CV	1SVR405600R2010																					
	CR-P230AC1SS92CV	1SVR405600R3110																					
	CR-P230AC1LS	1SVR405600R3011																					
	CR-P230AC1LC92CV	1SVR405600R3010																					
	CR-P012DC2SS42V	1SVR405601R4010																					
	CR-P024DC2SS42V	1SVR405601R1010																					
	CR-P024DC2LS42	1SVR405601R1013																					
	CR-P024DC2LS42V	1SVR405601R1011																					
	CR-P024DC2LC42	1SVR405601R1012																					
	CR-P024DC2GLC42V	1SVR405606R1010																					
	CR-P024DC2GLC62C	1SVR405606R1013																					
	CR-P024DC2GLC62CV	1SVR405606R1011																					
	CR-P110DC2SS42CV	1SVR405601R8010																					
	CR-P024AC2SS62CV	1SVR405601R0010																					
	CR-P120AC2SS92CV	1SVR405601R2010																					
	CR-P230AC2SS92CV	1SVR405601R3110																					
	CR-P230AC2LS92CV	1SVR405601R3011																					
	CR-P230AC2LC92	1SVR405601R3012																					
	CR-P230AC2GLC92	1SVR405606R3013																					
	CR-P230AC2GLC92C	1SVR405606R3012																					
	CR-P230AC2GLC92CV	1SVR405606R3010																					
Input voltage																							
12 V DC	■																						
24 V DC		■	■	■						■													
48 V DC																							
110 V DC						■																	
12 V AC																							
24 V AC																						■	
48 V AC																							
110 V AC																							
120 V AC																							■
230 V AC										■	■	■											■
Output rating																							
250 V 16 A	■	■	■	■	■	■	■	■	■	■													
250 V 8 A											■	■	■	■	■	■	■	■	■	■	■	■	■
Output contacts																							
c/o	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	
Gold plated contacts																			■	■	■		
Socket type																							
Standard socket	■	■				■	■	■	■											■	■	■	■
Logical socket			■	■						■	■					■	■	■	■		■	■	■
Additional features																							
LED	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■			■	■	■	■
Free-wheeling diode	■	■	■								■	■	■	■	■	■	■					■	■

CR-P range complete versions

Selection table - List of components



The complete versions of the CR-P range comprise of a pluggable interface relay, socket, holder, marker and a function module.

CR-P complete versions

Complete versions		Type	Order code	Relay	Socket	Function module	Holder
		CR-P012DC2	1SVR405601R4000				
		CR-P024DC2	1SVR405601R1000				
		CR-P024DC2G	1SVR405606R1000				
		CR-P110DC2	1SVR405601R8000				
		CR-P024AC2	1SVR405601R0000				
		CR-P120AC2	1SVR405601R2000				
		CR-P230AC2	1SVR405601R3000				
		CR-P230AC2G	1SVR405606R3000				
		CR-PSS	1SVR405650R1000				
		CR-PLS	1SVR405650R0000				
		CR-PLC	1SVR405650R0200				
		CR-P/M 42	1SVR405652R0000				
		CR-P/M 42V	1SVR405652R1000				
		CR-P/M 42CV	1SVR405652R9100				
		CR-P/M 62C	1SVR405655R0000				
		CR-P/M 62CV	1SVR405655R1000				
		CR-P/M 92	1SVR405654R0100				
		CR-P/M 92C	1SVR405655R0100				
		CR-P/M 92CV	1SVR405655R1100				
		CR-PH	1SVR405659R0000				
Order code	Type						
1SVR405601R4010	CR-P012DC2SS42V	■			■		■
1SVR405601R1010	CR-P024DC2SS42V		■		■		■
1SVR405601R1013	CR-P024DC2LS42		■		■		■
1SVR405601R1011	CR-P024DC2LS42V		■		■		■
1SVR405601R1012	CR-P024DC2LC42		■		■		■
1SVR405606R1010	CR-P024DC2GLC42V			■		■	■
1SVR405606R1013	CR-P024DC2GLC62C			■		■	■
1SVR405606R1011	CR-P024DC2GLC62CV			■		■	■
1SVR405601R8010	CR-P110DC2SS42CV			■		■	■
1SVR405601R0010	CR-P024AC2SS62CV				■		■
1SVR405601R2010	CR-P120AC2SS92CV				■		■
1SVR405601R3110	CR-P230AC2SS92CV				■		■
1SVR405601R3011	CR-P230AC2LS92CV				■		■
1SVR405601R3012	CR-P230AC2LC92				■		■
1SVR405606R3013	CR-P230AC2GLC92				■		■
1SVR405606R3012	CR-P230AC2GLC92C				■		■
1SVR405606R3010	CR-P230AC2GLC92CV				■		■

CR-M range

Selection table

CR-M pluggable relays without LED

Type	Order code
CR-M012DC2	1SVR405611R4000
CR-M024DC2	1SVR405611R1000
CR-M048DC2	1SVR405611R6000
CR-M060DC2	1SVR405611R4200
CR-M110DC2	1SVR405611R8000
CR-M125DC2	1SVR405611R8200
CR-M220DC2	1SVR405611R9000
CR-M024AC2	1SVR405611R0000
CR-M048AC2	1SVR405611R5000
CR-M110AC2	1SVR405611R7000
CR-M120AC2	1SVR405611R2000
CR-M230AC2	1SVR405611R3000
CR-M012DC3	1SVR405612R4000
CR-M024DC3	1SVR405612R1000
CR-M048DC3	1SVR405612R6000
CR-M060DC3	1SVR405612R4200
CR-M110DC3	1SVR405612R8000
CR-M125DC3	1SVR405612R8200
CR-M220DC3	1SVR405612R9000
CR-M024AC3	1SVR405612R0000
CR-M048AC3	1SVR405612R5000
CR-M060AC3	1SVR405612R5200
CR-M110AC3	1SVR405612R7000
CR-M120AC3	1SVR405612R2000
CR-M230AC3	1SVR405612R3000
CR-M012DC4	1SVR405613R4000
CR-M024DC4	1SVR405613R1000
CR-M048DC4	1SVR405613R6000
CR-M060DC4	1SVR405613R4200
CR-M110DC4	1SVR405613R8000
CR-M125DC4	1SVR405613R8200
CR-M220DC4	1SVR405613R9000
CR-M024AC4	1SVR405613R0000
CR-M048AC4	1SVR405613R5000
CR-M110AC4	1SVR405613R7000
CR-M120AC4	1SVR405613R2000
CR-M230AC4	1SVR405613R3000

Input voltage	
12 V DC	■
24 V DC	■
48 V DC	■
60 V DC	■
110 V DC	■
125 V DC	■
220 V DC	■
24 V AC	■
48 V AC	■
60 V AC	■
110 V AC	■
120 V AC	■
230 V AC	■

Output rating	
250 V 6 A	■
250 V 10 A	■
250 V 12 A	■

Output contacts	
c/o	2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4
Gold plated contacts	

Additional features	
LED	
Free-wheeling diode	

CR-M range

Selection table

CR-M pluggable relays with LED

Type	Order code
CR-M012DC2L	15VR405611R4100
CR-M012DC2LD	15VR405611R4400
CR-M024DC2L	15VR405611R1100
CR-M024DC2LD	15VR405611R1400
CR-M048DC2L	15VR405611R6100
CR-M048DC2LD	15VR405611R6400
CR-M060DC2L	15VR405611R4300
CR-M110DC2L	15VR405611R8100
CR-M110DC2LD	15VR405611R8400
CR-M125DC2L	15VR405611R8300
CR-M125DC2LD	15VR405611R8500
CR-M220DC2L	15VR405611R9100
CR-M220DC2LD	15VR405611R9400
CR-M012AC2L	15VR405611R0300
CR-M024AC2L	15VR405611R0300
CR-M048AC2L	15VR405611R5100
CR-M110AC2L	15VR405611R7100
CR-M120AC2L	15VR405611R2100
CR-M230AC2L	15VR405611R3100

Input voltage	CR-M012DC2L	CR-M012DC2LD	CR-M024DC2L	CR-M024DC2LD	CR-M048DC2L	CR-M048DC2LD	CR-M060DC2L	CR-M110DC2L	CR-M110DC2LD	CR-M125DC2L	CR-M125DC2LD	CR-M220DC2L	CR-M220DC2LD	CR-M012AC2L	CR-M024AC2L	CR-M048AC2L	CR-M110AC2L	CR-M120AC2L	CR-M230AC2L	
12 V DC	■	■																		
24 V DC			■	■																
48 V DC					■	■														
60 V DC							■													
110 V DC								■	■											
125 V DC										■	■									
220 V DC												■	■							
12 V AC														■						
24 V AC															■					
48 V AC																■				
60 V AC																				
110 V AC																				■
120 V AC																				
230 V AC																				

Output rating	CR-M012DC2L	CR-M012DC2LD	CR-M024DC2L	CR-M024DC2LD	CR-M048DC2L	CR-M048DC2LD	CR-M060DC2L	CR-M110DC2L	CR-M110DC2LD	CR-M125DC2L	CR-M125DC2LD	CR-M220DC2L	CR-M220DC2LD	CR-M012AC2L	CR-M024AC2L	CR-M048AC2L	CR-M110AC2L	CR-M120AC2L	CR-M230AC2L	
250 V 6 A																				
250 V 10 A																				
250 V 12 A	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Output contacts	CR-M012DC2L	CR-M012DC2LD	CR-M024DC2L	CR-M024DC2LD	CR-M048DC2L	CR-M048DC2LD	CR-M060DC2L	CR-M110DC2L	CR-M110DC2LD	CR-M125DC2L	CR-M125DC2LD	CR-M220DC2L	CR-M220DC2LD	CR-M012AC2L	CR-M024AC2L	CR-M048AC2L	CR-M110AC2L	CR-M120AC2L	CR-M230AC2L
c/o	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Gold plated contacts																			

Additional features	CR-M012DC2L	CR-M012DC2LD	CR-M024DC2L	CR-M024DC2LD	CR-M048DC2L	CR-M048DC2LD	CR-M060DC2L	CR-M110DC2L	CR-M110DC2LD	CR-M125DC2L	CR-M125DC2LD	CR-M220DC2L	CR-M220DC2LD	CR-M012AC2L	CR-M024AC2L	CR-M048AC2L	CR-M110AC2L	CR-M120AC2L	CR-M230AC2L
LED	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Free-wheeling diode	■		■		■			■		■		■							■

CR-M range

Selection table

CR-M pluggable relays with LED

	Type	Order code
	CR-M012DC3L	1SVR405612R4100
	CR-M012DC3LD	1SVR405612R4400
	CR-M024DC3L	1SVR405612R1100
	CR-M024DC3LD	1SVR405612R1400
	CR-M048DC3L	1SVR405612R6100
	CR-M048DC3LD	1SVR405612R6400
	CR-M060DC3L	1SVR405612R4300
	CR-M110DC3L	1SVR405612R8100
	CR-M110DC3LD	1SVR405612R8400
	CR-M125DC3L	1SVR405612R8300
	CR-M125DC3LD	1SVR405612R8500
	CR-M220DC3L	1SVR405612R9100
	CR-M220DC3LD	1SVR405612R9400
	CR-M012AC3L	1SVR405612R0300
	CR-M024AC3L	1SVR405612R0100
	CR-M048AC3L	1SVR405612R5100
	CR-M110AC3L	1SVR405612R7100
	CR-M120AC3L	1SVR405612R2100
	CR-M230AC3L	1SVR405612R3100

Input voltage	CR-M012DC3L	CR-M012DC3LD	CR-M024DC3L	CR-M024DC3LD	CR-M048DC3L	CR-M048DC3LD	CR-M060DC3L	CR-M110DC3L	CR-M110DC3LD	CR-M125DC3L	CR-M125DC3LD	CR-M220DC3L	CR-M220DC3LD	CR-M012AC3L	CR-M024AC3L	CR-M048AC3L	CR-M110AC3L	CR-M120AC3L	CR-M230AC3L	
12 V DC	■	■																		
24 V DC			■	■																
48 V DC					■	■														
60 V DC							■													
110 V DC								■	■											
125 V DC										■	■									
220 V DC												■	■							
12 V AC															■					
24 V AC																■				
48 V AC																	■			
60 V AC																				
110 V AC																			■	
120 V AC																				■
230 V AC																				■

Output rating	CR-M012DC3L	CR-M012DC3LD	CR-M024DC3L	CR-M024DC3LD	CR-M048DC3L	CR-M048DC3LD	CR-M060DC3L	CR-M110DC3L	CR-M110DC3LD	CR-M125DC3L	CR-M125DC3LD	CR-M220DC3L	CR-M220DC3LD	CR-M012AC3L	CR-M024AC3L	CR-M048AC3L	CR-M110AC3L	CR-M120AC3L	CR-M230AC3L	
250 V 6 A																				
250 V 10 A	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
250 V 12 A																				

Output contacts	CR-M012DC3L	CR-M012DC3LD	CR-M024DC3L	CR-M024DC3LD	CR-M048DC3L	CR-M048DC3LD	CR-M060DC3L	CR-M110DC3L	CR-M110DC3LD	CR-M125DC3L	CR-M125DC3LD	CR-M220DC3L	CR-M220DC3LD	CR-M012AC3L	CR-M024AC3L	CR-M048AC3L	CR-M110AC3L	CR-M120AC3L	CR-M230AC3L
c/o	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Gold plated contacts																			

Additional features	CR-M012DC3L	CR-M012DC3LD	CR-M024DC3L	CR-M024DC3LD	CR-M048DC3L	CR-M048DC3LD	CR-M060DC3L	CR-M110DC3L	CR-M110DC3LD	CR-M125DC3L	CR-M125DC3LD	CR-M220DC3L	CR-M220DC3LD	CR-M012AC3L	CR-M024AC3L	CR-M048AC3L	CR-M110AC3L	CR-M120AC3L	CR-M230AC3L
LED	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Free-wheeling diode		■		■		■			■		■		■						

CR-M range

Selection table

CR-M pluggable relays with LED

Type	Order code
CR-M012DC4L	1SVR405613R4100
CR-M012DC4LD	1SVR405613R4400
CR-M024DC4L	1SVR405613R1100
CR-M024DC4LD	1SVR405614R1100
CR-M048DC4L	1SVR405613R6100
CR-M048DC4LD	1SVR405613R6400
CR-M060DC4L	1SVR405613R4300
CR-M110DC4L	1SVR405613R8100
CR-M110DC4LD	1SVR405613R8400
CR-M125DC4L	1SVR405613R8300
CR-M125DC4LD	1SVR405613R8500
CR-M220DC4L	1SVR405613R9100
CR-M220DC4LD	1SVR405613R9400
CR-M012AC4L	1SVR405613R0300
CR-M024AC4L	1SVR405613R0100
CR-M048AC4L	1SVR405613R5100
CR-M110AC4L	1SVR405613R7100
CR-M120AC4L	1SVR405613R2100
CR-M230AC4L	1SVR405613R3100

Input voltage	CR-M012DC4L	CR-M012DC4LD	CR-M024DC4L	CR-M024DC4LD	CR-M048DC4L	CR-M048DC4LD	CR-M060DC4L	CR-M110DC4L	CR-M110DC4LD	CR-M125DC4L	CR-M125DC4LD	CR-M220DC4L	CR-M220DC4LD	CR-M012AC4L	CR-M024AC4L	CR-M048AC4L	CR-M110AC4L	CR-M120AC4L	CR-M230AC4L	
12 V DC	■	■																		
24 V DC			■	■																
48 V DC					■	■														
60 V DC							■													
110 V DC								■	■											
125 V DC										■	■									
220 V DC												■	■							
12 V AC															■					
24 V AC																■				
48 V AC																	■			
60 V AC																				
110 V AC																		■		
120 V AC																			■	
230 V AC																				■

Output rating	CR-M012DC4L	CR-M012DC4LD	CR-M024DC4L	CR-M024DC4LD	CR-M048DC4L	CR-M048DC4LD	CR-M060DC4L	CR-M110DC4L	CR-M110DC4LD	CR-M125DC4L	CR-M125DC4LD	CR-M220DC4L	CR-M220DC4LD	CR-M012AC4L	CR-M024AC4L	CR-M048AC4L	CR-M110AC4L	CR-M120AC4L	CR-M230AC4L	
250 V 6 A	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
250 V 10 A																				
250 V 12 A																				

Output contacts	CR-M012DC4L	CR-M012DC4LD	CR-M024DC4L	CR-M024DC4LD	CR-M048DC4L	CR-M048DC4LD	CR-M060DC4L	CR-M110DC4L	CR-M110DC4LD	CR-M125DC4L	CR-M125DC4LD	CR-M220DC4L	CR-M220DC4LD	CR-M012AC4L	CR-M024AC4L	CR-M048AC4L	CR-M110AC4L	CR-M120AC4L	CR-M230AC4L
c/o	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Gold plated contacts																			

Additional features	CR-M012DC4L	CR-M012DC4LD	CR-M024DC4L	CR-M024DC4LD	CR-M048DC4L	CR-M048DC4LD	CR-M060DC4L	CR-M110DC4L	CR-M110DC4LD	CR-M125DC4L	CR-M125DC4LD	CR-M220DC4L	CR-M220DC4LD	CR-M012AC4L	CR-M024AC4L	CR-M048AC4L	CR-M110AC4L	CR-M120AC4L	CR-M230AC4L
LED	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Free-wheeling diode	■		■		■				■		■		■						

CR-M range

Selection table

CR-M pluggable relays with Gold Plated Contacts

Type	Order code
CR-M024DC4G	1SVR405618R1000
CR-M024AC4G	1SVR405618R0000
CR-M110AC4G	1SVR405618R7000
CR-M230AC4G	1SVR405618R3000
CR-M230AC4G	1SVR405618R3000
CR-M012DC4LG	1SVR405618R4100
CR-M024DC4LG	1SVR405618R1100
CR-M048DC4LG	1SVR405618R6100
CR-M060DC4LG	1SVR405618R4300
CR-M110DC4LG	1SVR405618R8100
CR-M125DC4LG	1SVR405618R8300
CR-M220DC4LG	1SVR405618R9100
CR-M024AC4LG	1SVR405618R0100
CR-M048AC4LG	1SVR405618R5100
CR-M110AC4LG	1SVR405618R7100
CR-M120AC4LG	1SVR405618R2100
CR-M230AC4LG	1SVR405618R3100
CR-M012DC4LDG	1SVR405618R4400
CR-M024DC4LDG	1SVR405618R1400

Input voltage	
12 V DC	■
24 V DC	■
48 V DC	■
60 V DC	■
110 V DC	■
125 V DC	■
220 V DC	■
24 V AC	■
48 V AC	■
60 V AC	■
110 V AC	■
120 V AC	■
230 V AC	■

Output rating	
250 V 6 A	■
250 V 10 A	■
250 V 12 A	■

Output contacts	
c/o	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Gold plated contacts	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Additional features	
LED	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Free-wheeling diode	■ ■

CR-M range complete versions

Selection table

CR-M range complete versions

Type	Order code
CR-M012DC4LDGSS	1SVR405618R4410
CR-M024DC4SS42V	1SVR405613R1010
CR-M024DC4LS42V	1SVR405613R1011
CR-M024DC4LC42	1SVR405613R1012
CR-M024DC4GSS42V	1SVR405618R1011
CR-M024DC4GLC62CV	1SVR405618R1010
CR-M024DC4LGLC22	1SVR405618R1110
CR-M024DC4LDGSS	1SVR405618R1410
CR-M024AC4LS62CV	1SVR405613R0010
CR-M230AC4SS92CV	1SVR405613R3110
CR-M230AC4LS92CV	1SVR405613R3011
CR-M230AC4LC92	1SVR405613R3012
CR-M230AC4GSS92CV	1SVR405618R3112
CR-M230AC4LGLC	1SVR405618R3110
CR-M230AC4LGSS	1SVR405618R3111

Input voltage	
12 V DC	■
24 V DC	■ ■ ■ ■ ■ ■ ■
48 V DC	
60 V DC	
110 V DC	
125 V DC	
220 V DC	
24 V AC	■
48 V AC	
60 V AC	
110 V AC	
120 V AC	
230 V AC	■ ■ ■ ■ ■ ■ ■

Output rating	
250 V 6 A	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
250 V 10 A	
250 V 12 A	

Output contacts	
c/o	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Gold plated contacts	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Socket type	
Standard socket	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Logical socket	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Additional features	
LED	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Free-wheeling diode	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

CR-M range complete versions

Selection table - List of components



The complete versions of the CR-M range comprise of a pluggable interface relay, socket, holder, marker and where applicable a function module.

CR-M complete versions

Complete versions		Type	Order code	Relay	Socket	Function module	Holder
		CR-M012DC4LDG	1SVR405618R4400				
		CR-M024DC4	1SVR405613R1000				
		CR-M024DC4G	1SVR405618R1000				
		CR-M024DC4LG	1SVR405618R1100				
		CR-M024DC4LDG	1SVR405618R1400				
		CR-M024AC4	1SVR405613R0000				
		CR-M230AC4	1SVR405613R3000				
		CR-M230AC4G	1SVR405618R3000				
		CR-M230AC4LG	1SVR405618R3100				
		CR-M4SS	1SVR405651R3000				
		CR-M4LS	1SVR405651R3100				
		CR-M4LC	1SVR405651R3200				
		CR-P/M 22	1SVR405651R0000				
		CR-P/M 42	1SVR405652R0000				
		CR-P/M 42V	1SVR405652R1000				
		CR-P/M 42CV	1SVR405652R9100				
		CR-P/M 62CV	1SVR405655R1000				
		CR-P/M 92	1SVR405654R0100				
		CR-P/M 92CV	1SVR405655R1100				
		CR-MH	1SVR405659R1000				

Order code	Type	Relay	Socket	Function module	Holder
1SVR405618R4410	CR-M012DC4LDGSS	■	■		■
1SVR405613R1010	CR-M024DC4SS42V	■	■	■	■
1SVR405613R1011	CR-M024DC4LS42V	■	■	■	■
1SVR405613R1012	CR-M024DC4LC42	■	■	■	■
1SVR405618R1011	CR-M024DC4GSS42V	■	■	■	■
1SVR405618R1010	CR-M024DC4GLC62CV	■	■	■	■
1SVR405618R1110	CR-M024DC4LGLC22	■	■	■	■
1SVR405618R1410	CR-M024DC4LDGSS	■	■		■
1SVR405613R0010	CR-M024AC4LS62CV	■	■	■	■
1SVR405613R3110	CR-M230AC4SS92CV	■	■		■
1SVR405613R3011	CR-M230AC4LS92CV	■	■		■
1SVR405613R3012	CR-M230AC4LC92	■	■	■	■
1SVR405618R3112	CR-M230AC4GSS92CV	■	■		■
1SVR405618R3110	CR-M230AC4LGLC	■	■		■
1SVR405618R3111	CR-M230AC4LGSS	■	■		■

CR-P/M function modules

Selection table

CR-P/M function modules

	Type	Order code
	CR-P/M 22	1SVR405651R0000
	CR-P/M 42	1SVR405652R0000
	CR-P/M 42V	1SVR405652R1000
	CR-P/M 42B	1SVR405652R4000
	CR-P/M 42BV	1SVR405652R4100
	CR-P/M 42C	1SVR405652R9000
	CR-P/M 42CV	1SVR405652R9100
	CR-P/M 52B	1SVR405653R0000
	CR-P/M 52D	1SVR405653R4000
	CR-P/M 52C	1SVR405653R1000
	CR-P/M 62	1SVR405654R0000
	CR-P/M 62V	1SVR405654R1000
	CR-P/M 62E	1SVR405654R4000
	CR-P/M 62EV	1SVR405654R4100
	CR-P/M 92	1SVR405654R0100
	CR-P/M 92V	1SVR405654R1100
	CR-P/M 62C	1SVR405655R0000
	CR-P/M 62CV	1SVR405655R1000
	CR-P/M 62D	1SVR405655R4000
	CR-P/M 62DV	1SVR405655R4100
	CR-P/M 92C	1SVR405655R0100
	CR-P/M 92CV	1SVR405655R1100
	CR-P/M 72	1SVR405656R0000
	CR-P/M 72A	1SVR405656R1000
	CR-P/M 82	1SVR405656R2000

Related control supply voltage	CR-P/M 22	CR-P/M 42	CR-P/M 42V	CR-P/M 42B	CR-P/M 42BV	CR-P/M 42C	CR-P/M 42CV	CR-P/M 52B	CR-P/M 52D	CR-P/M 52C	CR-P/M 62	CR-P/M 62V	CR-P/M 62E	CR-P/M 62EV	CR-P/M 92	CR-P/M 92V	CR-P/M 62C	CR-P/M 62CV	CR-P/M 62D	CR-P/M 62DV	CR-P/M 92C	CR-P/M 92CV	CR-P/M 72	CR-P/M 72A	CR-P/M 82
6-220 V DC	■																								
6-24 V DC		■	■									■	■					■	■						
24-60 V DC			■	■	■								■	■						■	■				
110 V DC						■	■																		
110-230 V DC										■					■	■					■	■			
6-24 V AC								■				■	■					■	■						
24-60 V AC									■				■	■						■	■				
110-230 V AC										■					■	■					■	■			
24 V AC																							■		
115 V AC																								■	
230 V AC																									■
24-240 V AC/DC																									■

Function	CR-P/M 22	CR-P/M 42	CR-P/M 42V	CR-P/M 42B	CR-P/M 42BV	CR-P/M 42C	CR-P/M 42CV	CR-P/M 52B	CR-P/M 52D	CR-P/M 52C	CR-P/M 62	CR-P/M 62V	CR-P/M 62E	CR-P/M 62EV	CR-P/M 92	CR-P/M 92V	CR-P/M 62C	CR-P/M 62CV	CR-P/M 62D	CR-P/M 62DV	CR-P/M 92C	CR-P/M 92CV	CR-P/M 72	CR-P/M 72A	CR-P/M 82
Diode - reverse polarity protection / free-wheeling diode	■																								
Diode and LED - reverse polarity protection / free-wheeling diode		■	■	■	■	■	■																		
RC element - spark quenching								■	■	■															
Diode and LED											■	■	■	■	■	■									
Varistor and LED - overvoltage protection																	■	■	■	■	■	■	■	■	■
Varistor - overvoltage protection																							■	■	■
LED red	■		■	■	■	■					■	■	■	■	■	■			■	■	■	■			
LED green		■		■	■	■						■	■	■	■	■			■	■	■	■			

CR-U range

Selection table

CR-U pluggable relays without LED

Type	Order code
CR-U012DC2	1SVR405621R4000
CR-U024DC2	1SVR405621R1000
CR-U048DC2	1SVR405621R6000
CR-U110DC2	1SVR405621R8000
CR-U220DC2	1SVR405621R9000
CR-U024AC2	1SVR405621R0000
CR-U048AC2	1SVR405621R5000
CR-U110AC2	1SVR405621R7000
CR-U120AC2	1SVR405621R2000
CR-U230AC2	1SVR405621R3000
CR-U012DC3	1SVR405622R4000
CR-U024DC3	1SVR405622R1000
CR-U048DC3	1SVR405622R6000
CR-U110DC3	1SVR405622R8000
CR-U125DC3	1SVR405622R8200
CR-U220DC3	1SVR405622R9000
CR-U024AC3	1SVR405622R0000
CR-U048AC3	1SVR405622R5000
CR-U060AC3	1SVR405622R5200
CR-U110AC3	1SVR405622R7000
CR-U120AC3	1SVR405622R2000
CR-U230AC3	1SVR405622R3000

Input voltage	
12 V DC	■
24 V DC	■
48 V DC	■
110 V DC	■
125 V DC	■
220 V DC	■
12 V AC	
24 V AC	■
48 V AC	■
60 V AC	
110 V AC	■
120 V AC	■
230 V AC	■

Output rating	
250 V 10 A	■ ■

Output contacts	
c/o	2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
Gold plated contacts	

CR-U function modules

Selection table

CR-U function modules

	Type	Order code
	CR-U 21	15VR405661R0000
	CR-U 41	15VR405662R0000
	CR-U 41V	15VR405662R1000
	CR-U 41B	15VR405662R4000
	CR-U 41BV	15VR405662R4100
	CR-U 41C	15VR405662R9000
	CR-U 41CV	15VR405662R9100
	CR-U 51B	15VR405663R0000
	CR-U 51D	15VR405663R4000
	CR-U 51C	15VR405663R1000
	CR-U 61	15VR405664R0000
	CR-U 61V	15VR405664R1000
	CR-U 61E	15VR405664R4000
	CR-U 61EV	15VR405664R4100
	CR-U 91	15VR405664R0100
	CR-U 91V	15VR405664R1100
	CR-U 61C	15VR405665R0000
	CR-U 61CV	15VR405665R1000
	CR-U 61D	15VR405665R4000
	CR-U 61DV	15VR405665R4100
	CR-U 91C	15VR405665R0100
	CR-U 91CV	15VR405665R1100
	CR-U 71	15VR405666R0000
	CR-U 71A	15VR405666R1000
	CR-U 81	15VR405666R2000
	CR-U T	15VR405677R0000

Related control supply voltage	CR-U 21	CR-U 41	CR-U 41V	CR-U 41B	CR-U 41BV	CR-U 41C	CR-U 41CV	CR-U 51B	CR-U 51D	CR-U 51C	CR-U 61	CR-U 61V	CR-U 61E	CR-U 61EV	CR-U 91	CR-U 91V	CR-U 61C	CR-U 61CV	CR-U 61D	CR-U 61DV	CR-U 91C	CR-U 91CV	CR-U 71	CR-U 71A	CR-U 81	CR-U T	
6-220 V DC	■																										
6-24 V DC		■	■					■			■	■					■	■									
24-60 V DC				■	■				■				■	■					■	■							
110 V DC						■	■																				
110-230 V DC									■					■	■						■	■					
6-24 V AC								■			■	■					■	■									
24-60 V AC									■			■	■						■	■							
110-230 V AC										■				■	■						■	■					
24 V AC																								■			
115 V AC																									■		
230 V AC																										■	
24-240 V AC/DC																											■

Function	CR-U 21	CR-U 41	CR-U 41V	CR-U 41B	CR-U 41BV	CR-U 41C	CR-U 41CV	CR-U 51B	CR-U 51D	CR-U 51C	CR-U 61	CR-U 61V	CR-U 61E	CR-U 61EV	CR-U 91	CR-U 91V	CR-U 61C	CR-U 61CV	CR-U 61D	CR-U 61DV	CR-U 91C	CR-U 91CV	CR-U 71	CR-U 71A	CR-U 81	CR-U T	
Diode - reverse polarity protection / free wheeling diode	■																										
Diode and LED - Reverse polarity protection / free-wheeling diode and LED to indicate energized coil		■	■	■	■	■	■																				
RC element - Spark quenching								■	■	■																	
Diode and LED - LED to indicate energized coil											■	■	■	■	■	■											
Varistor and LED - Overvoltage protection and LED to indicate energized coil																	■	■	■	■	■	■					
Varistor - Overvoltage protection																								■	■	■	
Multi-function time module																											■
LED red	■		■		■						■	■	■	■	■	■	■	■	■	■	■	■					
LED green		■		■		■					■	■	■	■	■	■	■	■	■	■	■	■					■

Boxed interface relays R600 range

Selection table

Type	Order number	1SNA645034R2300	1SNA645036R2500	1SNA645534R2500	1SNA645073R0000	1SNA645035R2400	1SNA645075R0000	1SNA645535R2600	1SNA645019R0400	1SNA645519R0600	1SNA645014R2700	1SNA645018R0300	1SNA645518R0500	1SNA645514R2100	1SNA645001R0300	1SNA645005R0700	1SNA645501R0500	1SNA645505R0100	1SNA645012R2500	1SNA645512R2700	1SNA645071R0000	1SNA645571R0000	1SNA645072R0000	1SNA645572R0000	1SNA645002R0400	1SNA645006R0000	
Input voltage																											
5 V DC		■	■	■																							
12 V DC					■	■	■	■																			
24 V DC									■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
48-60 V DC																									■	■	
115 V DC																											
230 V DC																											
60-230 V DC																											
24 V AC									■	■	■	■	■	■	■	■	■	■	■	■							
48-60 V AC																									■	■	
115 V AC																											
230 V AC																											
60-230 V AC																											
Output rating																											
10 mA - 6 A		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 mA - 6 A			■				■									■		■						■	■	■	
1 mA - 8 A																			■	■							
Output contacts																											
c/o		1	1	1	1	1	1								1	1	1	1	2	2	1	1	1	1	1	1	1
n/o											1	1	1	1													
n/c									1	1																	
Gold plated contacts		■					■								■		■	■	■				■	■	■		
Terminal type																											
Screw		■	■		■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Spring			■				■		■	■		■	■	■		■	■	■	■	■		■	■	■	■	■	

Boxed interface relays R600 range

Selection table

Type	Order number																						
RBR121-48-60VUC	1SNA645502R0600																						
RBR121G-48-60VUC	1SNA645506R0200																						
RB122G-48-60VUC	1SNA645040R1500																						
RBR122G-48-60VUC	1SNA645540R1700																						
RBR121-115VUC	1SNA645003R0500																						
RBR121G-115VUC	1SNA645007R0100																						
RBR121R-115VUC	1SNA645046R0700																						
RBR121-115VUC	1SNA645503R0700																						
RBR121G-115VUC	1SNA645507R0300																						
RBR122G-115VUC	1SNA645041R0200																						
RBR122G-115VUC	1SNA645541R0400																						
RBR111-115VUC	1SNA645016R2100																						
RBR111-230VUC	1SNA645017R2200																						
RBR121-230VUC	1SNA645004R0400																						
RBR121G-230VUC	1SNA645008R1200																						
RBR121R-230VUC	1SNA645011R2400																						
RBR121-230VUC	1SNA645504R0000																						
RBR121G-230VUC	1SNA645508R1400																						
RBR121R-230VUC	1SNA645511R2600																						
RBR122G-230VUC	1SNA645013R2600																						
RBR122G-230VUC	1SNA645513R2000																						
RBR121-60-230VUC	1SNA645020R0100																						
RBR121-60-230VUC	1SNA645520R0300																						
Input voltage																							
5 V DC																							
12 V DC																							
24 V DC																							
48-60 V DC	■	■	■	■																			
115 V DC					■	■	■	■	■	■	■												
230 V DC												■	■	■	■	■	■	■	■				
60-230 V DC																				■	■		
24 V AC																							
48-60 V AC	■	■	■	■																			
115 V AC					■	■	■	■	■	■	■	■											
230 V AC												■	■	■	■	■	■	■	■	■	■		
60-230 V AC																				■	■		
Output rating																							
10 mA - 6 A	■				■		■	■				■	■	■	■	■	■	■		■	■		
3 mA - 6 A		■				■			■					■			■						
1 mA - 8 A			■	■						■	■									■	■		
Output contacts																							
c/o	1	1	2	2	1	1	1	1	1	2	2			1	1	1	1	1	1	2	2	1	1
n/o													1	1									
n/c																							
Gold plated contacts		■	■	■		■				■	■	■			■			■		■	■		
Terminal type																							
Screw			■		■	■	■			■	■	■	■	■	■	■	■			■		■	
Spring	■	■		■					■	■	■	■						■	■	■	■		■

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