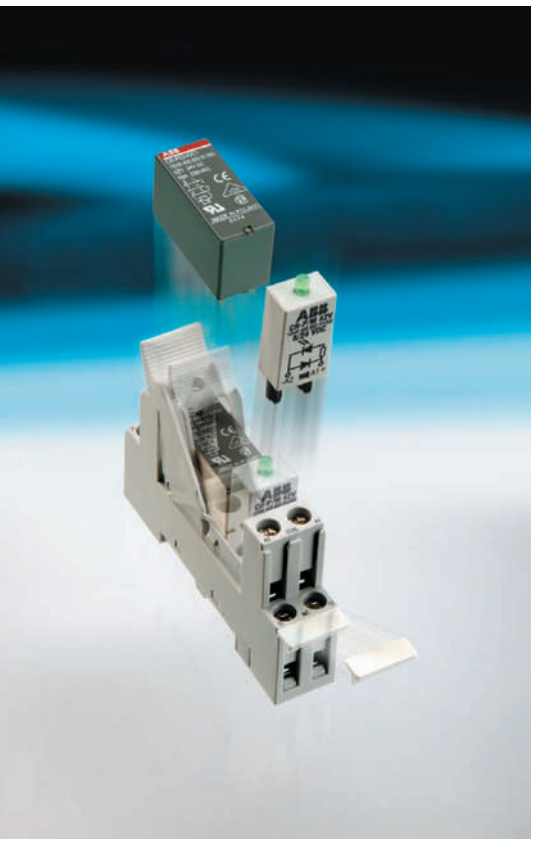
Pluggable interface relays CR-P, CR-M, CR-U range



2CDC 295 007 F0005

Selection guides and order references for pluggable interface relays CR



2CDC 293 065 F0004



2CDC 291 045 F0004

Pluggable pcb relays CR-P

- 1 or 2 c/o contacts
- 1 c/o: 250V/16A switching capacity
- 2 c/o: 250V/8A switching capacity
- Suited for logical and standard sockets[1)]
- Pluggable function modules CR-P/M
- Approvals:

c UL us, (SP), (PG), (VDE), (CCC) (pending)

Type	*Supply voltage*	*Order code*
1 c/o: 250 V, 16 A		
CR-P012DC1	12 V DC	1SVR 405 600 R4000
CR-P024DC1	**24 V DC**	**1SVR 405 600 R1000**
CR-P048DC1	48 V DC	1SVR 405 600 R6000
CR-P110DC1	110 V DC	1SVR 405 600 R8000
CR-P024AC1	**24 V AC**	**1SVR 405 600 R0000**
CR-P048AC1	48 V AC	1SVR 405 600 R5000
CR-P110AC1	**110 V AC**	**1SVR 405 600 R7000**
CR-P120AC1	120 V AC	1SVR 405 600 R2000
CR-P230AC1	**230 V AC**	**1SVR 405 600 R3000**
2 c/o: 250 V, 8 A		
CR-P012DC2	12 V DC	1SVR 405 601 R4000
CR-P024DC2	**24 V DC**	**1SVR 405 601 R1000**
CR-P048DC2	48 V DC	1SVR 405 601 R6000
CR-P110DC2	110 V DC	1SVR 405 601 R8000
CR-P024AC2	**24 V AC**	**1SVR 405 601 R0000**
CR-P048AC2	48 V AC	1SVR 405 601 R5000
CR-P110AC2	**110 V AC**	**1SVR 405 601 R7000**
CR-P120AC2	120 V AC	1SVR 405 601 R2000
CR-P230AC2	**230 V AC**	**1SVR 405 601 R3000**

Packing unit = 10 pieces.



2CDC291 039 F0004

CR-PLS

2CDC 291 040 F0004

CR-PSS

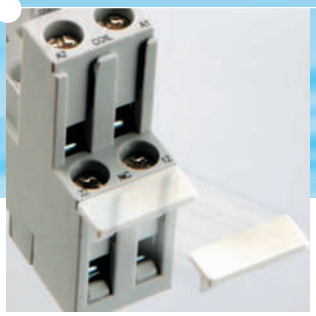
Sockets for pcb relays CR-P

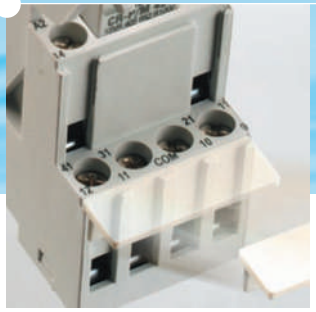
Type	*Connection*	*Order code*
Logical socket[1)]		
CR-PLS	**screw**	**1SVR 405 650 R0000**
CR-PLSx	**screw**	**1SVR 405 650 R0100**
CR-PLC	**spring**	**1SVR 405 650 R0200**
Standard socket[1)]		
CR-PSS	**screw**	**1SVR 405 650 R1000**
Socket accessories, holder		
CR-PH		**1SVR 405 659 R0000**

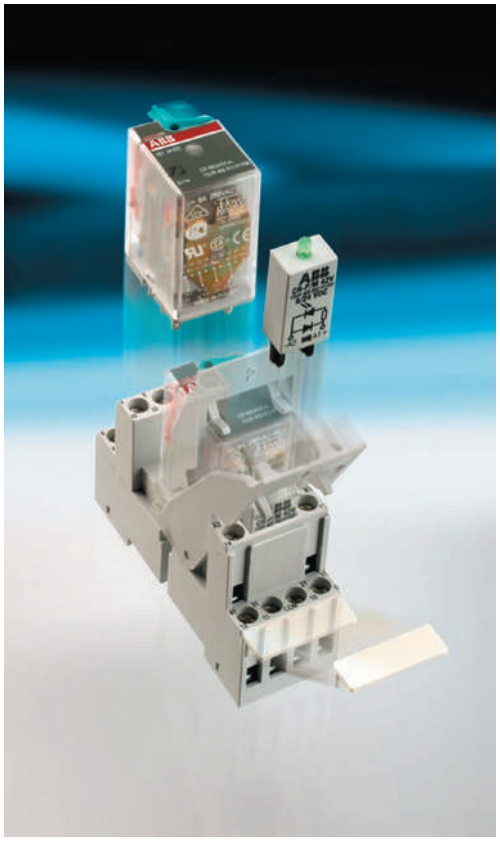
Packing unit = 10 pieces.

[1)] **Standard sockets - Position of connecting terminals:**
coil connection (A1-A2) and common contacts on lower socket side,
contact connections (n/o and n/c contacts) on upper socket side.
Logical sockets - Position of connecting terminals:
coil connection (A1-A2) on lower socket side,
all contact connections (common contacts, n/o and n/c contacts) on upper socket side.

Bold printed products = stocked products.







2CDC 293 066 F0004



2CDC 291 046 F0004

Pluggable miniature relays CR-M

- 2, 3 or 4 c/o contacts
- 2 c/o: 250V/12A switching capacity
- 3 c/o: 250V/10A switching capacity
- 4 c/o: 250V/6A switching capacity
- Mechanical status indication
- Integrated test button for manual operation and locking of output contacts (blue: DC, orange: AC)
- With or without LED
- 4 c/o version optionally equipped with gold contacts and LED
- Suited for logical or standard sockets[1)]
- Pluggable function modules CR-P/M
- Approvals:

2), (4 c/o Variante)

(pending)

1) see previous page

2) not 125V DC version

Bold printed products = stocked products.

Pluggable miniature relays CR-M without LED

Type	*Supply voltage*	*Order code*
Interface relays without LED		
2 c/o: 250 V, 12 A		
CR-M012DC2	12 V DC	1SVR 405 611 R4000
CR-M024DC2	**24 V DC**	**1SVR 405 611 R1000**
CR-M048DC2	48 V DC	1SVR 405 611 R6000
CR-M060DC2	60 V DC	1SVR 405 611 R4200
CR-M110DC2	110 V DC	1SVR 405 611 R8000
CR-M125DC2	125 V DC	1SVR 405 611 R8200
CR-M220DC2	220 V DC	1SVR 405 611 R9000
CR-M024AC2	**24 V AC**	**1SVR 405 611 R0000**
CR-M048AC2	48 V AC	1SVR 405 611 R5000
CR-M110AC2	**110 V AC**	**1SVR 405 611 R7000**
CR-M120AC2	120 V AC	1SVR 405 611 R2000
CR-M230AC2	**230 V AC**	**1SVR 405 611 R3000**
3 c/o: 250 V, 10 A		
CR-M012DC3	12 V DC	1SVR 405 612 R4000
CR-M024DC3	**24 V DC**	**1SVR 405 612 R1000**
CR-M048DC3	48 V DC	1SVR 405 612 R6000
CR-M060DC3	60 V DC	1SVR 405 612 R4200
CR-M110DC3	110 V DC	1SVR 405 612 R8000
CR-M125DC3	125 V DC	1SVR 405 612 R8200
CR-M220DC3	220 V DC	1SVR 405 612 R9000
CR-M024AC3	**24 V AC**	**1SVR 405 612 R0000**
CR-M048AC3	48 V AC	1SVR 405 612 R5000
CR-M110AC3	**110 V AC**	**1SVR 405 612 R7000**
CR-M120AC3	120 V AC	1SVR 405 612 R2000
CR-M230AC3	**230 V AC**	**1SVR 405 612 R3000**
4 c/o: 250 V, 6 A		
CR-M012DC4	12 V DC	1SVR 405 613 R4000
CR-M024DC4	**24 V DC**	**1SVR 405 613 R1000**
CR-M048DC4	48 V DC	1SVR 405 613 R6000
CR-M060DC4	60 V DC	1SVR 405 613 R4200
CR-M110DC4	110 V DC	1SVR 405 613 R8000
CR-M125DC4	125 V DC	1SVR 405 613 R8200
CR-M220DC4	220 V DC	1SVR 405 613 R9000
CR-M024AC4	**24 V AC**	**1SVR 405 613 R0000**
CR-M048AC4	48 V AC	1SVR 405 613 R5000
CR-M110AC4	**110 V AC**	**1SVR 405 613 R7000**
CR-M120AC4	120 V AC	1SVR 405 613 R2000
CR-M230AC4	**230 V AC**	**1SVR 405 613 R3000**

Packing unit = 10 pieces.



2CDC 291 042 F0004

CR-MxLS



2CDC 291 041 F0004

CR-MxSS

Sockets for miniature relays CR-M

Type	*Version*	*Connection*	*Order code*
Logical sockets[1)]			
CR-M2LS	**for 2 c/o contacts**	**screw**	**1SVR 405 651 R1100**
CR-M3LS	**for 3 c/o contacts**	**screw**	**1SVR 405 651 R2100**
CR-M4LS	**for 2/4 c/o contacts**	**screw**	**1SVR 405 651 R3100**
CR-M2LC	**for 2 c/o contacts**	**spring**	**1SVR 405 651 R1200**
CR-M4LC	**for 2/4 c/o contacts**	**spring**	**1SVR 405 651 R3200**
Standard sockets[1)]			
CR-M2SS	**for 2 c/o contacts**	**screw**	**1SVR 405 651 R1000**
CR-M3SS	**for 3 c/o contacts**	**screw**	**1SVR 405 651 R2000**
CR-M4SS	**for 2/4 c/o contacts**	**screw**	**1SVR 405 651 R3000**
CR-M2SF	**for 2 c/o contacts**	**fork type screw**	**1SVR 405 651 R1300**
CR-M4SF	**for 2/4 c/o contacts**	**fork type screw**	**1SVR 405 651 R3300**
Socket accessories			
CR-MH	**Plastic holder**		**1SVR 405 659 R1000**
CR-MH1	Metal holder		1SVR 405 659 R1100

Packing unit = 10 pieces.





Pluggable miniature relays CR-M with LED



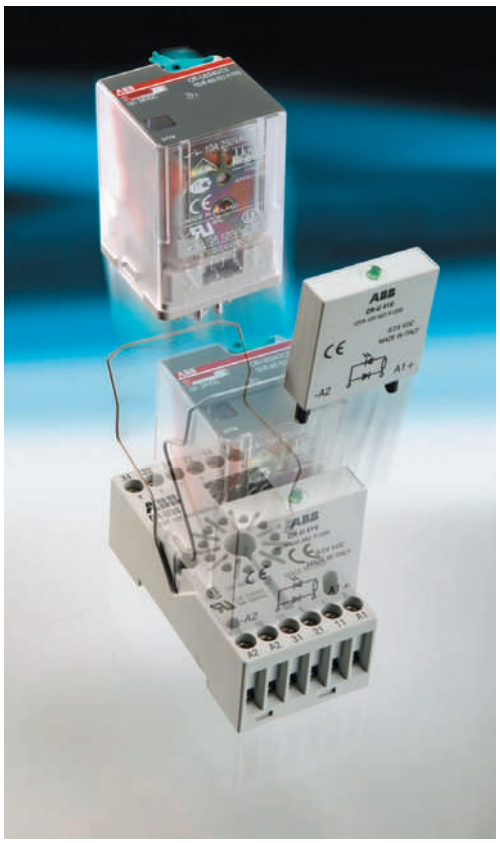
2CDC 291 046 F0004

Type	*Supply voltage*	*Order code*
Interface relays with LED		
2 Wechsler: 250 V, 12 A		
CR-M012DC2L	12 V DC	1SVR 405 611 R4100
CR-M024DC2L	**24 V DC**	**1SVR 405 611 R1100**
CR-M048DC2L	48 V DC	1SVR 405 611 R6100
CR-M060DC2L	60 V DC	1SVR 405 611 R4300
CR-M110DC2L	110 V DC	1SVR 405 611 R8100
CR-M125DC2L	125 V DC	1SVR 405 611 R8300
CR-M220DC2L	220 V DC	1SVR 405 611 R9100
CR-M024AC2L	**24 V AC**	**1SVR 405 611 R0100**
CR-M048AC2L	48 V AC	1SVR 405 611 R5100
CR-M110AC2L	**110 V AC**	**1SVR 405 611 R7100**
CR-M120AC2L	120 V AC	1SVR 405 611 R2100
CR-M230AC2L	**230 V AC**	**1SVR 405 611 R3100**
3 c/o: 250 V, 10 A		
CR-M012DC3L	12 V DC	1SVR 405 612 R4100
CR-M024DC3L	**24 V DC**	**1SVR 405 612 R1100**
CR-M048DC3L	48 V DC	1SVR 405 612 R6100
CR-M060DC3L	60 V DC	1SVR 405 612 R4300
CR-M110DC3L	110 V DC	1SVR 405 612 R8100
CR-M125DC3L	125 V DC	1SVR 405 612 R8300
CR-M220DC3L	220 V DC	1SVR 405 612 R9100
CR-M024AC3L	**24 V AC**	**1SVR 405 612 R0100**
CR-M048AC3L	48 V AC	1SVR 405 612 R5100
CR-M110AC3L	**110 V AC**	**1SVR 405 612 R7100**
CR-M120AC3L	120 V AC	1SVR 405 612 R2100
CR-M230AC3L	**230 V AC**	**1SVR 405 612 R3100**
4 c/o: 250 V, 6 A		
CR-M012DC4L	12 V DC	1SVR 405 613 R4100
CR-M024DC4L	**24 V DC**	**1SVR 405 613 R1100**
CR-M048DC4L	48 V DC	1SVR 405 613 R6100
CR-M060DC4L	60 V DC	1SVR 405 613 R4300
CR-M110DC4L	110 V DC	1SVR 405 613 R8100
CR-M125DC4L	125 V DC	1SVR 405 613 R8300
CR-M220DC4L	220 V DC	1SVR 405 613 R9100
CR-M024AC4L	**24 V AC**	**1SVR 405 613 R0100**
CR-M048AC4L	48 V AC	1SVR 405 613 R5100
CR-M110AC4L	**110 V AC**	**1SVR 405 613 R7100**
CR-M120AC4L	120 V AC	1SVR 405 613 R2100
CR-M230AC4L	**230 V AC**	**1SVR 405 613 R3100**
Interface relays with LED and gold contacts		
4 Wechsler: 250 V, 12 A		
CR-M012DC4LG	12 V DC	1SVR 405 618 R4100
CR-M024DC4LG	**24 V DC**	**1SVR 405 618 R1100**
CR-M048DC4LG	48 V DC	1SVR 405 618 R6100
CR-M060DC4LG	60 V DC	1SVR 405 618 R4300
CR-M110DC4LG	110 V DC	1SVR 405 618 R8100
CR-M125DC4LG	125 V DC	1SVR 405 618 R8300
CR-M220DC4LG	220 V DC	1SVR 405 618 R9100
CR-M024AC4LG	**24 V AC**	**1SVR 405 618 R0100**
CR-M048AC4LG	48 V AC	1SVR 405 618 R5100
CR-M110AC4LG	**110 V AC**	**1SVR 405 618 R7100**
CR-M120AC4LG	120 V AC	1SVR 405 618 R2100
CR-M230AC4LG	**230 V AC**	**1SVR 405 618 R3100**

Packing unit = 10 pieces.

Bold printed products = stocked products.


2CDC 291 047 F0004


2CDC 293 067 F0004

Pluggable universal relays CR-U

- 2 or 3 c/o contacts, 250V/10A switching capacity
- Mechanical status indication
- Integrated test button for manual operation and locking of output contacts (blue: DC, orange: AC)
- With or without LED
- Pluggable function modules CR-U
- Approvals:

(pending)

Bold printed products = stocked products.

Pluggable universal relays CR-U

Type	*Supply voltage*	*Order code*
Interface relays without LED		
2 c/o: 250 V, 10 A		
CR-U012DC2	12 V DC	1SVR 405 621 R4000
CR-U024DC2	**24 V DC**	**1SVR 405 621 R1000**
CR-U048DC2	48 V DC	1SVR 405 621 R6000
CR-U110DC2	110 V DC	1SVR 405 621 R8000
CR-U220DC2	220 V DC	1SVR 405 621 R9000
CR-U024AC2	**24 V AC**	**1SVR 405 621 R0000**
CR-U048AC2	48 V AC	1SVR 405 621 R5000
CR-U110AC2	**110 V AC**	**1SVR 405 621 R7000**
CR-U120AC2	120 V AC	1SVR 405 621 R2000
CR-U230AC2	**230 V AC**	**1SVR 405 621 R3000**
3 c/o: 250 V, 10 A		
CR-U012DC3	12 V DC	1SVR 405 622 R4000
CR-U024DC3	**24 V DC**	**1SVR 405 622 R1000**
CR-U048DC3	48 V DC	1SVR 405 622 R6000
CR-U110DC3	110 V DC	1SVR 405 622 R8000
CR-U220DC3	220 V DC	1SVR 405 622 R9000
CR-U024AC3	**24 V AC**	**1SVR 405 622 R0000**
CR-U048AC3	48 V AC	1SVR 405 622 R5000
CR-U110AC3	**110 V AC**	**1SVR 405 622 R7000**
CR-U120AC3	120 V AC	1SVR 405 622 R2000
CR-U230AC3	**230 V AC**	**1SVR 405 622 R3000**
Interface relays with LED		
2 c/o: 250 V, 10 A		
CR-U012DC2L	12 V DC	1SVR 405 621 R4100
CR-U024DC2L	**24 V DC**	**1SVR 405 621 R1100**
CR-U048DC2L	48 V DC	1SVR 405 621 R6100
CR-U110DC2L	110 V DC	1SVR 405 621 R8100
CR-U220DC2L	220 V DC	1SVR 405 621 R9100
CR-U024AC2L	**24 V AC**	**1SVR 405 621 R0100**
CR-U048AC2L	48 V AC	1SVR 405 621 R5100
CR-U110AC2L	**110 V AC**	**1SVR 405 621 R7100**
CR-U120AC2L	120 V AC	1SVR 405 621 R2100
CR-U230AC2L	**230 V AC**	**1SVR 405 621 R3100**
3 c/o: 250 V, 10 A		
CR-U012DC3L	12 V DC	1SVR 405 622 R4100
CR-U024DC3L	**24 V DC**	**1SVR 405 622 R1100**
CR-U048DC3L	48 V DC	1SVR 405 622 R6100
CR-U110DC3L	110 V DC	1SVR 405 622 R8100
CR-U220DC3L	220 V DC	2SVR 405 622 R9100
CR-U024AC3L	**24 V AC**	**1SVR 405 622 R0100**
CR-U048AC3L	48 V AC	1SVR 405 622 R5100
CR-U110AC3L	**110 V AC**	**1SVR 405 622 R7100**
CR-U120AC3L	120 V AC	1SVR 405 622 R2100
CR-U230AC3L	**230 V AC**	**1SVR 405 622 R3100**

Packing unit = 10 pieces.

Sockets for universal relays CR-U


2CDC 291 043 F0004

CR-U2S

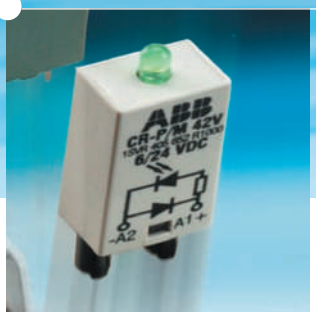

2CDC 291 044 F0004

CR-U3S

Type	*Version*	*Order code*
Sockets		
CR-U2S	**for 2 c/o contacts + module**	**1SVR 405 670 R0000**
CR-U3S	**for 3 c/o contacts + module**	**1SVR 405 660 R0000**
CR-U3E	**for 3 c/o contacts**	**1SVR 405 660 R0100**
Small sockets, not capable for modules		
CR-U2SM	**for c/o contacts**	**1SVR 405 670 R1100**
CR-U3SM	**for 3 c/o contacts**	**1SVR 405 660 R1100**
Socket accessories		
CR-UH	**Metal holder**	**1SVR 405 669 R0000**

Packing unit = 10 pieces.

Pluggable function modules for interface relays CR-P, CR-M, CR-U rang







uggable function modules relays CR-P and CR-M

Type	Supply voltage	Version	Order code
Diode - reverse polarity protection			
CR-P/M 22	6-230 V DC	A1+, A2-	1SVR 405 651 R0000
Diode and LED - reverse polarity protection			
CR-P/M 42	6-24 V DC	rot, A1+, A2-	1SVR 405 652 R0000
CR-P/M 42V	6-24 V DC	grün, A1+, A2-	1SVR 405 652 R1000
CR-P/M 42B	24-60 V DC	rot, A1+, A2-	1SVR 405 652 R4000
CR-P/M 42BV	24-60 V DC	grün, A1+, A2-	1SVR 405 652 R4100
CR-P/M 42C	110-230 V DC	rot, A1+, A2-	1SVR 405 652 R9000
CR-P/M 42CV	110-230 V DC	grün, A1+, A2-	1SVR 405 652 R9100
RC element - spark quenching			
CR-P/M 52B	6-24 V AC		1SVR 405 653 R0000
CR-P/M 52D	24-60 V AC		1SVR 405 653 R4000
CR-P/M 52C	110-230 V AC		1SVR 405 653 R1000
Diode and LED			
CR-P/M 62	6-24 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 654 R0000
CR-P/M 62V	6-24 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 654 R1000
CR-P/M 62E	24-60 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 654 R4000
CR-P/M 62EV	24-60 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 654 R4100
CR-P/M 92	110-230 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 654 R0100
CR-P/M 92V	110-230 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 654 R1100
Varistor and LED - overvoltage protection			
CR-P/M 62C	6-24 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 655 R0000
CR-P/M 62CV	6-24 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 655 R0100
CR-P/M 62D	24-60 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 655 R4000
CR-P/M 62DV	24-60 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 655 R4100
CR-P/M 92C	110-230 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 655 R0100
CR-P/M 92CV	110-230 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 655 R1100
Varistor - overvoltage protection			
CR-P/M 72	24 V AC		1SVR 405 656 R0000
CR-P/M 72A	115 V AC		1SVR 405 656 R1000
CR-P/M 82	230 V AC		1SVR 405 656 R2000

Packing unit = 10 pieces.



Pluggable function modules for relays CR-U

Type	Supply voltage	Version	Order code
Diode - reverse polarity protection			
CR-U 41	6-230 V DC	A1+, A2-	1SVR 405 661 R0000
Diode and LED - reverse polarity protection			
CR-U 41	6-24 V DC	rot, A1+, A2-	1SVR 405 662 R0000
CR-U 41V	6-24 V DC	grün, A1+, A2-	1SVR 405 662 R1000
CR-U 41B	24-60 V DC	rot, A1+, A2-	1SVR 405 662 R4000
CR-U 41BV	24-60 V DC	grün, A1+, A2-	1SVR 405 662 R4100
CR-U 41C	110-230 V DC	rot, A1+, A2-	1SVR 405 662 R9000
CR-U 41CV	110-230 V DC	grün, A1+, A2-	1SVR 405 662 R9100
RC element - spark quenching			
CR-U 51B	6-24 V AC		1SVR 405 663 R0000
CR-U 51D	24-60 V AC		1SVR 405 663 R4000
CR-U 51C	110-230 V AC		1SVR 405 663 R1000
Diode and LED			
CR-U 61	6-24 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 664 R0000
CR-U 61V	6-24 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 664 R1000
CR-U 61E	24-60 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 664 R4000
CR-U 61EV	24-60 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 664 R4100
CR-U 91	110-230 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 664 R0100
CR-U 91V	110-230 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 664 R1100
Varistor and LED - overvoltage protection			
CR-U 61C	6-24 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 665 R0000
CR-U 61CV	6-24 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 665 R0100
CR-U 61D	24-60 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 665 R4000
CR-U 61DV	24-60 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 665 R4100
CR-U 91C	110-230 V AC/DC	rot, bei DC: A1+, A2-	1SVR 405 665 R0100
CR-U 91CV	110-230 V AC/DC	grün, bei DC: A1+, A2-	1SVR 405 665 R1100
Varistor - overvoltage protection			
CR-U 71	24 V AC		1SVR 405 666 R0000
CR-U 71A	115 V AC		1SVR 405 666 R1000
CR-U 81	230 V AC		1SVR 405 666 R2000
Multifunctional timing module			
CR-U T	24-240 V AC/DC		1SVR 405 677 R2000

Packing unit = 10 pieces.

Bold printed products = stocked products.

e







The new program:
Pluggable interface relays by ABB

Interface relays are widely used in various industrial applications: As an interface they link the electronic controlling, e.g. PLC (programmable logic controller), PC or field bus systems, to the sensor / actuator level. Here, they take on various functions: Switching of AC or DC loads with different resistive, inductive and capacitive parts, switching voltages from a few mV up to 250 V, switching currents from a few mA up to 16 A, amplification of weak control signals, electrical isolation of control and load circuits, and signal multiplying. In contrast to electronic switching devices, interface relays don't use additional internal protective circuits and thus are overload-proof against short-time variations like current or voltage peaks.

ABB pluggable interface relays are offered in three product ranges: Pcb relays CR-P, miniature relays CR-M and universal relays CR-U. The advantages will convince you:

- 12 different coil voltages:
  12 V DC, 24 V DC, 24 V AC, 48 V AC, 48 V DC, 60 V DC, 110 V DC, 125 V DC, 220 V DC, 110 V AC, 120 V AC, 230 V AC
- All relays are cadmium- and lead-free.
- Our relays feature all major international approvals.



Druckschrift-Nr. 2CDC 117 009 B0203 (01/06)
Printed in the Federal Republic of Germany



ABB STOTZ-KONTAKT GmbH
Postfach 10 16 80, 69006 Heidelberg
Eppelheimer Straße 82, 69123 Heidelberg
GERMANY

www.abb.com/lowvoltage –> Control Products –> Electronic Relays