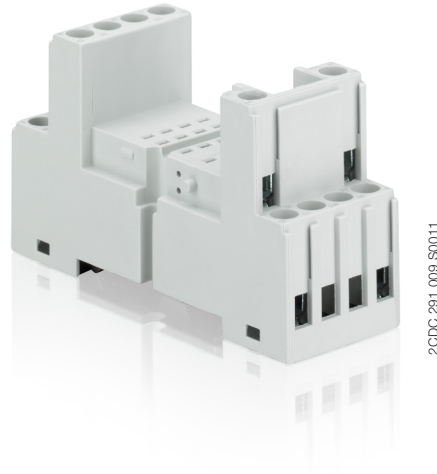


Accessories for pluggable interface relays CR-M

Sockets

Characteristics

- Logical and standard socket for interface relays CR-M
- Snap-on mounting on DIN rail
- Connector for pluggable function modules: reverse polarity protection/free wheeling diode, LED indication, RC element, overvoltage protection



Approvals

 UL 508, CAN/GSA C22.2 No.14

 CAN/GSA C22.2 No.14

 EAC

 RMRS

Marks

 CE

Order data

Packing unit = 10 pieces

Type	Version	Connection	Order code
------	---------	------------	------------

Logical sockets

Position of connecting terminals: coil connection (A1-A2), all contact connections (common contacts, n/o and n/c contacts) on upper socket side. Details see connection diagrams.

CR-M2LS	for 2 c/o (SPDT) contacts	screw	1SVR 405 651 R1100
CR-M3LS	for 3 c/o (SPDT) contacts	screw	1SVR 405 651 R2100
CR-M4LS	for 2 or 4 c/o (SPDT) contacts	screw	1SVR 405 651 R3100
CR-M2LC	for 2 c/o (SPDT) contacts	spring	1SVR 405 651 R1200
CR-M4LC	for 2 or 4 c/o (SPDT) contacts	spring	1SVR 405 651 R3200

Standard sockets

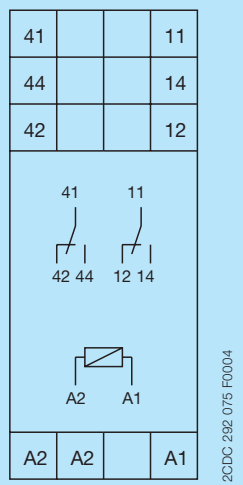
Position of connecting terminals: coil connection (A1-A2) on lower socket side, contact connections (n/o and n/c contacts) on the lower and upper socket side.

CR-M2SS	for 2 c/o (SPDT) contacts	screw	1SVR 405 651 R1000
CR-M3SS	for 3 c/o (SPDT) contacts	screw	1SVR 405 651 R2000
CR-M4SS	for 2 or 4 c/o (SPDT) contacts	screw	1SVR 405 651 R3000
CR-M2SF	for 2 c/o (SPDT) contacts	fork type screw	1SVR 405 651 R1300
CR-M4SF	for 2 or 4 c/o (SPDT) contacts	fork type screw	1SVR 405 651 R3300

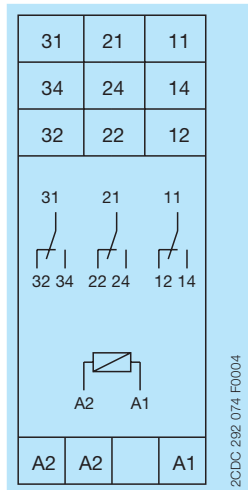
Accessories for CR-M sockets

CR-MH	Plastic holder		1SVR 405 659 R1000
CR-MH1	Metall holder		1SVR 405 659 R1100
CR-MJ	Jumper bar for sockets with screw clamps		1SVR 405 658 R6000
CR-MM	Marker		1SVR 405 658 R1000

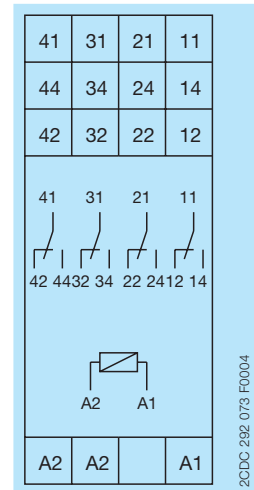
Electrical connection



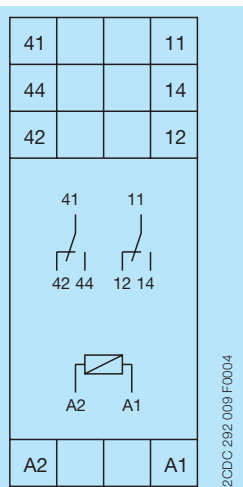
CR-M2LS



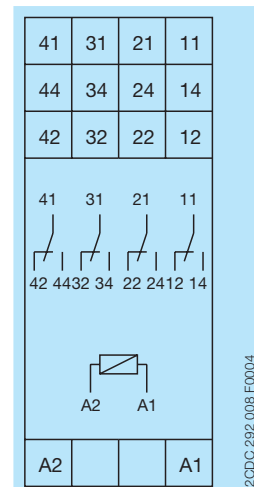
CR-M3LS



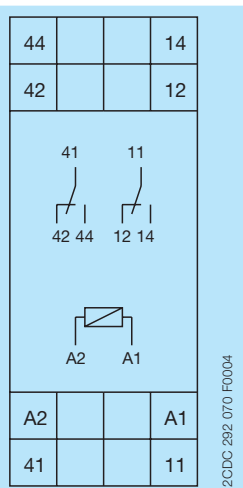
CR-M4LS



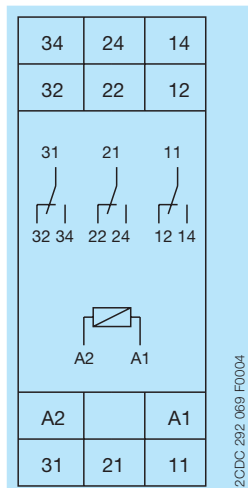
CR-M2LC



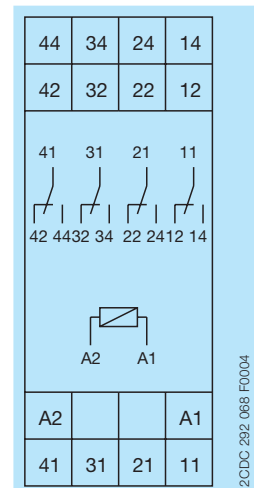
CR-M4LC



**CR-M2SS,
CR-M2SF**



CR-M3SS



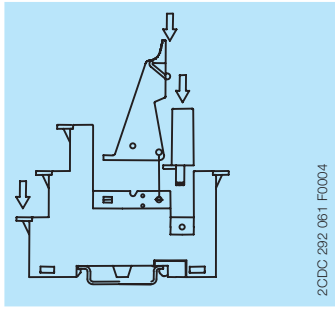
**CR-M4SS,
CR-M4SF**

A1-A2 Supply voltage
11-12/14, Relay outputs
41-42/44

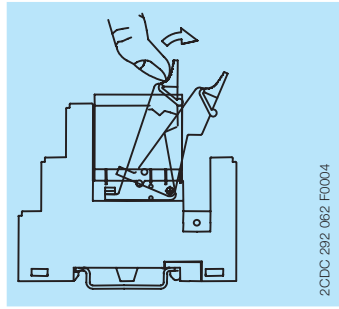
A1-A2 Supply voltage
11-12/14, Relay outputs
21-22/24,
31-32/34

A1-A2 Supply voltage
11-12/14, Relay outputs
21-22/24
31-32/34
41-42/44

Mounting and removal of sockets



Mounting



Removal

Technical data

Output circuits

Type	CR-MxLS	CR-MxSS	CR-MxSF	CR-MxLC
Output circuits	11-12/14, 21-22/24, ...			
Number of poles	2, 3 or 4		2 or 4	
Rated voltage	250 V AC			300 V AC
Rated current	7 A			10 A

General data

Dimensions without holder and module (L x W x H)	75 x 27.2 x 60.8 mm (2.952 x 1.071 x 2.394 in)	75.2 x 27.2 x 42.6 mm (2.961 x 1.071 x 1.677 in)	66.7 x 30.3 x 29 mm (2.626 x 1.193 x 1.142 in)	95 x 31 x 42.5 mm (3.74 x 1.22 x 1.67 in)
Degree of protection	terminals	IP 20 B (EN 60529)		
Temperature range	operation	-40...+70 °C		-25...+85 °C
	storage	-40...+70 °C		
Connection type	screw connection		fork type screw	spring connection
Maximum number of wires per connecting terminal	2			2 (one per connection point)
Connecting capacity	rigid			2 x 0.5-1.5 mm ²
	fine-strand	2 x 0.5-2.5 mm ² (2 x 20-14 AWG)		(2 x 20-16 AWG)
	with wire end ferrule	2 x 0.5-1.5 mm ² (2 x 20-16 AWG)		2 x 1.5 mm ² (2 x 16 AWG)
Stripping length	7 mm (0.28 in)			10 mm (0.39 in)
Tightening torque	0.6 Nm (5.31 lb.in)			
Minimum clamping force for fine-strand wire	with 0.2 mm ²	-	-	10 N
	with 1.5 mm ²	-	-	40 N
	with wire end ferrule	-	-	> 40 N
Mounting	DIN rail (IEC/EN 60715)			
Material	socket	PA 6+GF - V2		
	contacts	CuZn33		
	contact surface	5 μ Ni	6 μ Ni	5 μ tinned
	terminals	8 μ Ni		
	combi screw M3	8.8 Steel, 5μ Ni		

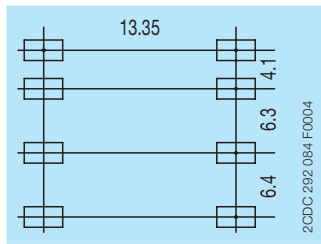
Isolation data

Insulation voltage	> 3 kV	> 4 kV
Isolation between coil and contacts	IEC/EN 61984	
Clearance and creepage distance	IEC/EN 61984	

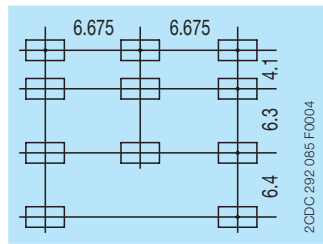
Standards / Directives

Standards	IEC/EN 61984
Low Voltage Directive	2014/35/EU
RoHS Directive	2011/65/EU

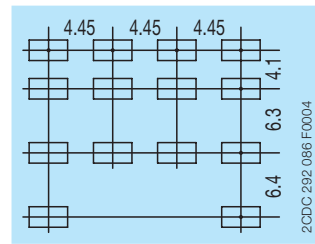
Pinning



CR-M2xS



CR-M3xS



CR-M4xS

Further documentation

Document title	Document type	Document number
Electronic Products and Relays	Technical catalogue	2CDC 110 004 C02xx
Relays CR-M	Data sheet	2CDC 117 002 D020x
Jumper bar CR-MJ	Data sheet	2CDC 117 015 D020x
Pluggable function modules CR-P/M	Data sheet	2CDC 117 007 D020x

You can find the documentation on the internet at www.abb.com/lowvoltage

-> Automation, control and protection -> Electronic relays and controls

-> Interface relays and optocouplers.

CAD system files

You can find the CAD files for CAD systems at <http://abb-control-products.partcommunity.com>

-> Low Voltage Products & Systems -> Control Products -> Electronic Relays and Controls.

Contact us

ABB STOTZ-KONTAKT GmbH

P. O. Box 10 16 80
69006 Heidelberg, Germany
Phone: +49 (0) 6221 7 01-0
Fax: +49 (0) 6221 7 01-13 25
E-mail: info.desto@de.abb.com

You can find the address of your
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