

Single relay modules quick selection table

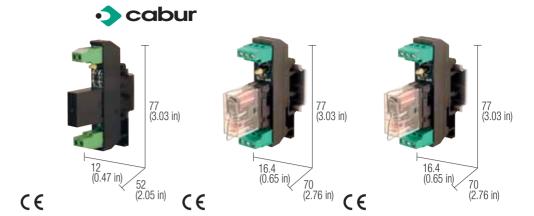
These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

Number of	Input	Outp	ut	Notes	Tumo	Cat. No.	Dogo
relays	rated voltage	type / no. of contacts	rated current	notes	Туре	Cat. No.	Page
1	12 Vdc	SPDT	16A	(2)	RF1012D	XRF1012D	102
1	12 Vdc	SPDT	10A	(1)	CM1C012	XCM1C012	103
1	12 Vdc	DPDT	5A	(1)	CM2C012	XCM2C012	104
1	12 Vdc	4PDT	3A	(1)	CM4C012	XCM4C012	105
1	12 Vac	SPDT	10A	(1)	CM1A012	XCM1A012	106
1	12 Vac	DPDT	5A	(1)	CM2A012	XCM2A012	107
1	12 Vac/dc	SPDT	6A	(1)	CWRE7-0848	X766848	110
1	24 Vdc	SPST(NO)	5A	(2)	RFA024D	XRFA024D	101
1	24 Vdc	SPDT	16A	(1)	RE1024D	XRE1024D	101
1	24 Vdc	SPDT	16A	(2)	RF1024D	XRF1024D	101
1	24 Vdc	SPDT	12A	(1)	CM1C024	XCM1C024	103
1	24 Vdc	SPDT	12A	(1)	RE1824D	XRE1824D	101
1	24 Vdc	SPDT	12A	(2)	RF1824D	XRF1824D	101
1	24 Vdc	DPDT	8A	(1)	CM2C024	XCM2C024	104
1	24 Vdc	4PDT	3A	(1)	CM4C024	XCM4C024	105
1	24 Vac/dc	SPDT	6A	(1)	CWRE7-0842	X766842	110
1	24 Vac/dc	SPDT	6A	(2) (3)	CKR16	XCKR16	109
1	24 Vac/dc	DPDT	8A	(1)	RE2024D	XRE2024D	102
2	24 Vac/dc	DPST(NO)	5A	(2)	CKR25	XCKR25	109
1	24 Vac	SPDT	12A	(1)	CM1A024	XCM1A024	106
1	24 Vac	DPDT	8A	(1)	CM2A024	XCM2A024	107
1	48 Vdc	SPDT	10A	(1)	CM1C048	XCM1C048	103
1	48 Vdc	DPDT	5A	(1)	CM2C048	XCM2C048	104
1	48 Vac/dc	SPDT	6A	(1)	CWRE7-0845	X766845	110
1	110 Vdc	SPDT	10A	(1)	CM1C110	XCM1C110	103
1	110 Vdc	DPDT	5A	(1)	CM2C110	XCM2C110	104
1	110120 Vac/dc	SPDT	6A	(1)	CWRE7-0846	X766846	110
1	120 Vac	SPDT	10A	(1)	CM1A120	XCM1A120	106
1	120 Vac	DPDT	5A	(1)	CM2A120	XCM2A120	107
1	230 Vac	SPDT	6A	(1)	CWRE7-0847	X766847	110
1	230 Vac	SPDT	10A	(1)	CM1A230	XCM1A230	106
1	230 Vac	DPDT	5A	(1)	CM2A230	XCM2A230	107

Notes

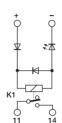
- (1) version with pluggable relay
- (2) version with fixed relay
- (3) protection fuse on the contact
- (4) without LED and protection diode

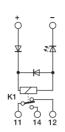
24 Vdc SPDT single relay R series

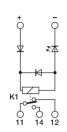


NOTES

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical
- (2) Version available upon request







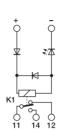
VERSIONS		Cat. No. XRFA024D	Cat. No. XR_1824D	Cat. No. XR_1024D
Pluggable relay		-	RE1824D	RE1024D
Fixed relay		RFA024D	RF1824D	RF1024D
•				
INPUT TECHNICAL DATA				
Rated voltage		24 Vdc ± 10%	24 Vdc ± 10%	24 Vdc ± 10%
Rated current (1 channel)		15 mA ± 10%	22 mA ± 10%	27 mA ± 10%
Turn ON time		15 ms	15 ms	15 ms
Turn OFF time		5 ms	5 ms	5 ms
Protection circuit		damping & polarity protection diode	damping & polarity protection diode	damping & polarity protection diode
OUTPUT TECHNICAL DATA				
Type and number of contacts		SPST(NO) AgSnO ₂	SPDT AgSnO ₂	SPDT AgSnO ₂
Nominal current (resistive load)		5 A / 250 Vac	12 A / 250 Vac	16 A / 250 Vac
Current breaking power		5 A	12 A	16 A
Current of the fuse max.		_	_	_
GENERAL TECHNICAL DATA				
Operating temperature		-10+50°C	-10+50°C	−10+50°C
Coil/contact isolation		2.5 KVac / 60 s	2.5 KVac / 60 s	2.5 KVac / 60 s
Isolation between output terminals		0,5 kVac / 60 s (between open contact)	0,5 kVac / 60 s (between open contact)	0,5 kVac / 60 s (between open contact)
Protection degree		IP 00 IEC529, EN60529	IP 00 IEC529, EN60529	IP 00 IEC529, EN60529
Overvoltage category / pollution degree		III / 2	III / 2	III / 2
Reference Standard		IEC 664-1, DIN VDE 0110.1	IEC 664-1, DIN VDE 0110.1	IEC 664-1, DIN VDE 0110.1
Status display		green LED	green LED	green LED
Connection terminals		2.5 mm ² fixed screw type AWG26-14	2.5 mm ² fixed screw type AWG26-14	2.5 mm ² fixed screw type AWG26-14
Housing material		UL94V-0 plastic material	UL94V-0 plastic material	UL94V-0 plastic material
Approx. weight		30 g (1.07 oz)	44 g (1.55 oz)	44 g (1.55 oz)
Mounting information		vertical on rail adjacent without gap	vertical on rail adjacent without gap	vertical on rail adjacent without gap
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35		F	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZI	В
Mounting rail type according to IEC60715/G32			PR/DIN/AC - PR/DIN/AS - PR/DIN/AL	
Replacement relay	(1)	Cat. No. 8904000	Cat. No. 8904001	Cat. No. 8904058
Screw type jumper	black	_	_	_

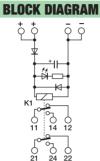
24 Vdc SPDT single relay R series



NOTES

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical
- (2) Version available upon request



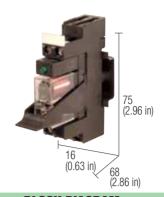


OUTPUT TECHNICAL DATA Type and number of contacts SPDT AgSnO2 DPDT AgSnO2 Nominal current (resistive load) 16 A / 250 Vac 8 A / 250 Vac Current breaking power 16 A 8 A Current of the fuse max. — — GENERAL TECHNICAL DATA Operating temperature -10+50°C -10+50°C Coil/contact isolation 2.5 KVac / 60 s 2.5 KVac / 60 s			11 14 12	21 24 22
INPUT TECHNICAL DATA	VERSIONS		Cat. No. XRF1012D	Cat. No. XRE2024D
INPUT TECHNICAL DATA	Pluggable relay		-	RE2024D
Rated voltage	Fixed relay		RF1012D	-
Rated current (1 channel) Turn ON time Turn OFF time Protection circuit OUTPUT TECHNICAL DATA Type and number of contacts Nominal current (resistive load) Current breaking power Current of the fuse max. GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Protection degree Overvoltage category / pollution degree Protection degree Overvoltage category / pollution degree Housing material Approx. weight Mounting rail type according to IEC60715/R35 Radaman A 44 mA ± 10% 15 ms 15 ms 5 ms 5 ms 5 ms 5 ms 4 amping & polarity protection diode damping & polarity protection diode 15 ms 5 ms 5 ms 5 ms 5 ms 5 ms 5 ms 4 ma ± 10% 15 ms 16 A a 8 A 10 DeTa Spono 2	INPUT TECHNICAL DATA			
Turn ON time Turn OFT time Protection circuit OUTPUT TECHNICAL DATA Type and number of contacts Nominal current (resistive load) Current breaking power Current of the fuse max. GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Protection degree Overvoltage category / pollution degree Povervoltage category / pollution degree Housing material Approx. weight MOUNTING ACCESSORIES Mounting rail type according to IEC60715/Fl35 Mounting rail type according to IEC60715/Fl35 Mounting rail type according to IEC60715/Fl35 Mounting rail type according to IEC60715/G32 Replacement relay 15 ms 5 ms 5 ms 5 ms 6 ms 5 ms 6				24 Vac / dc ± 10%
Turn OFF time Protection circuit Sms Sms Sms damping & polarity protection diode	Rated current (1 channel)		44 mA ± 10%	22 mA ± 10%
Protection circuit OUTPUT TECHNICAL DATA Type and number of contacts Nominal current (resistive load) Current breaking power GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Protection degree Overvoltage category / pollution degree Reference Standard Status display Connection terminals Housing material Approx. weight Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay SPDT AgSnO ₂ DPDT AgSnO ₂ DPDT AgSnO ₂ DPDT AgSnO ₂ 10 A			15 ms	15 ms
Type and number of contacts Nominal current (resistive load) Current breaking power Current breaking power GENERAL TECHNICAL DATA Operating temperature Coll/contact isolation Solation between output terminals Overvoltage category / pollution degree Overvoltage category / pollution degree Overvoltage category / pollution terminals Status display Connection terminals Connection term	Turn OFF time		5 ms	5 ms
Type and number of contacts Nominal current (resistive load) Current breaking power GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Protection degree Overvoltage category / pollution degree Reference Standard Connection terminals Connection terminals Connection terminals Approx. weight August 1.55 oz) Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay 16 A / 250 Vac 8 A / 250 Vac 10+50°C -10+50°C -1	Protection circuit		damping & polarity protection diode	damping & polarity protection diode
Nominal current (resistive load) Current breaking power GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Status display Connection terminals Housing material Approx. weight Approx. weight Mounting rail type according to IEC60715/G32 Mounting rail type according to IEC60715/G32 Replacement relay Technical DATA 16 A 8 A 8 A Carrent of the fuse max. ———————————————————————————————————	OUTPUT TECHNICAL DATA			
Nominal current (resistive load) Current breaking power GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Status display Connection terminals Housing material Approx. weight Approx. weight Mounting rail type according to IEC60715/G32 Mounting rail type according to IEC60715/G32 Replacement relay Technical DATA 16 A 8 A 8 A Carrent of the fuse max. ———————————————————————————————————	Type and number of contacts		SPDT AgSnO	DPDT AgSnO
Current of the fuse max. GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Protection degree Overvoltage category / pollution degree Reference Standard Status display Connection terminals Connection terminals Approx. weight Approx. weight Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay Replacement relay Content of the fuse max. — — — — — — — — — — — — —	Nominal current (resistive load)			
GENERAL TECHNICAL DATA Operating temperature Coil/contact isolation Isolation between output terminals Protection degree Overvoltage category / pollution degree Overvoltage category / pollution degree Reference Standard Status display Connection terminals Housing material Approx. weight Mounting information MOUNTING ACCESSORIES Mounting rail type according to IEC60715/G32 Replacement relay Replacement relay Pol IEC50 S (between open contact) O,5 kVac / 60 s (between open contact) IP 20 IEC529, EN60529 III / 2 III /	Current breaking power		16 A	8 A
Operating temperature Coil/contact isolation Solation between output terminals Protection degree Overvoltage category / pollution degree Reference Standard Status display Connection terminals Donate in terminals Approx. weight Approx. weight Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay Protection degree 10,5 kVac / 60 s (between open contact) O,5 kVac / 60 s (between open contact) IEC 664-1, DIN VDE 0110.1 IEC 664-1, DIN	Current of the fuse max.		_	_
Coil/contact isolation 2.5 KVac / 60 s Isolation between output terminals Protection degree Overvoltage category / pollution degree Overvoltage category / pollution degree Reference Standard Status display Connection terminals Porox. weight Approx. weight Mounting rail type according to IEC60715/G32 Mounting rail type according to IEC60715/G32 Replacement relay Reflect is on 5,5 kVac / 60 s O,5 kV	GENERAL TECHNICAL DATA			
Isolation between output terminals Protection degree O,5 kVac / 60 s (between open contact) IP 20 IEC529, EN60529 IP 00 IEC529, EN60529 IP 00 IEC529, EN60529 III / 2 Reference Standard IEC 664-1, DIN VDE 0110.1 Status display Green LED Gonnection terminals Province of the standard Approx. weight Approx. weight Mounting information MOUNTING ACCESSORIES Mounting rail type according to IEC60715/G32 Mounting rail type according to IEC60715/G32 Replacement relay O,5 kVac / 60 s (between open contact) IP 20 IEC529, EN60529 III / 2 III / 2 III / 2 III / 2 IEC 664-1, DIN VDE 0110.1 IEC 664	Operating temperature		−10+50°C	−10+50°C
Protection degree IP 20 IEC529, EN60529 IP 00 IEC529, EN60529 Overvoltage category / pollution degree III / 2 III / 2 Reference Standard IEC 664-1, DIN VDE 0110.1 IEC 664-1, DIN VDE 0110.1 Status display green LED green LED Connection terminals 2.5 mm² fixed screw type AWG26-14 2.5 mm² fixed screw type AWG26 Housing material UL94V-0 plastic material VL94V-0 plastic material Approx. weight 44 g (1.55 oz) 76 g (2.68 oz) Mounting information vertical on rail adjacent without gap vertical on rail adjacent without gap MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002	Coil/contact isolation		2.5 KVac / 60 s	2.5 KVac / 60 s
Overvoltage category / pollution degree Reference Standard Reference Standard Reference Standard Status display Connection terminals Housing material Approx. weight Approx. weight Mounting information MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay III / 2 III / 2	Isolation between output terminals		0,5 kVac / 60 s (between open contact)	0,5 kVac / 60 s (between open contact)
Reference Standard Replacement relay Replacement relay Regen LED Regeen LED R				
Status display green LED green LED Connection terminals 2.5 mm² fixed screw type AWG26-14 2.5 mm² fixed screw type AWG26-14 Housing material UL94V-0 plastic material Approx. weight 44 g (1.55 oz) 76 g (2.68 oz) Mounting information vertical on rail adjacent without gap vertical on rail adjacent without g MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002			III / 2	III / 2
Connection terminals 2.5 mm² fixed screw type AWG26-14 UL94V-0 plastic material Vertical on rail adjacent without gap WOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002	Reference Standard		IEC 664-1, DIN VDE 0110.1	IEC 664-1, DIN VDE 0110.1
Housing material Approx. weight Approx. weight Mounting information Mounting rail type according to IEC60715/G32 Replacement relay Approx. weight MUL94V-0 plastic material 44 g (1.55 oz) vertical on rail adjacent without gap vertical on rail				
Approx. weight 44 g (1.55 oz) 76 g (2.68 oz) Mounting information vertical on rail adjacent without gap vertical on rail adjacent without gap MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 PR/3/AC, PR/3/AC, PR/3/AS, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002				
Mounting information vertical on rail adjacent without gap vertical on rail adjacent without g MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Cat. No. 8904032 Cat. No. 8904002	0			· ·
Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay Replacement relay Replacement relay Mounting rail type according to IEC60715/G32 Replacement relay				
Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay PR/3/AC, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904032 Cat. No. 8904002	Mounting information		vertical on rail adjacent without gap	vertical on rail adjacent without gap
Mounting rail type according to IEC60715/G32 PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002				
Replacement relay (1) Cat. No. 8904032 Cat. No. 8904002	0 11 0			
1 ,				
Screw type jumper black — — —			Cat. No. 8904032	Cat. No. 8904002
	Screw type jumper	black	_	_



Single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

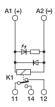


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NOTES

The height dimension includes 35 mm DIN rail.

- (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.
- (2) On request, there are available versions without signalling and protection circuit; for the order, please add the suffix "Z" to the item code (for example: XCM1C024Z).
- (3) On request, there are available versions with gold-plated contact; for the order, please add the suffix "U" to the item code (for example: XCM1C024U).



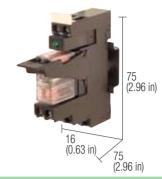
VERSIONS	Cat. No. XCM1C012	Cat. No. XCM1C024	Cat. No. XCM1C048	Cat. No. XCM1C110
12 Vdc	CM1C012			
24 Vdc		CM1C024		
48 Vdc			CM1C048	
110 Vdc				CM1C0110
INPUT TECHNICAL DATA				
Rated voltage	12 Vdc ±10%	24 Vdc ±10%	48 Vdc ±10%	110 Vdc ±10%
Rated current (1 channel)	44 mA ±10%	22 mA ±10%	12 mA ±10%	11 mA ±10%
Turn ON time	15 ms	15 ms	15 ms	15 ms
Turn OFF time	5 ms	5 ms	5 ms	20 ms
Protection circuit		damping of	diode (2)	
OUTPUT TECHNICAL DATA				
Type and number of contacts		SPDT AgS	SnO ₂ (3)	
Nominal current (resistive load)			250 Vac	
Current breaking power		12	2 A	
Current of the fuse max.		-	_	
GENERAL TECHNICAL DATA				
Operating temperature range		-10	+50°C	
Coil/contact isolation		4 kVac	c / 60 s	
solation between output terminals		1 kVac / 60 s (bet	ween open contact)	
Protection degree			29, EN60529	
Overvoltage category/Pollution degree		III	/ 2	
Reference Standard		IEC 664-1, DI	N VDE 0110.1	
Status display			ED (2)	
Connection terminal		2.5 mm ² fixed scre	ew type AWG26-14	
Housing material			astic material	
Approx. weight			.90 oz)	
Mounting information		vertical on rail adjacent with	nout gap or panel with screw	
MOUNTING ACCESSORIES				
		DD/2/AC DD/2/AC/7D	DD /2/AC DD /2/AC/7D	
Mounting rail type according to IEC60715/TH35-7.5		PR/3/AU, PR/3/AU/ZB	, PR/3/AS, PR/3/AS/ZB	

MOUNTING ACCESSORIES					
Mounting rail type according to IEC60715/TH35-7.5			PR/3/AC, PR/3/AC/ZB, I	PR/3/AS, PR/3/AS/ZB	
Mounting rail type according to IEC60715/G32			_	-	
Replacement relay	(1)	Cat. No. 8904039	Cat. No. 8904001	Cat. No. 8904008	Cat. No. 8904047
Screw type jumper	black		Cat. No. XC	CMB16B	
	white		_	•	
	blue		_	-	



DPDT single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

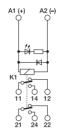


CE

NOTES

The height dimension includes 35 mm DIN rail.

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

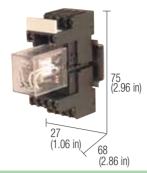


VERSIONS	Cat. No. XCM2C012	Cat. No. XCM2C024	Cat. No. XCM2C048	Cat. No. XCM2C110
12 Vdc	CM2C012			
24 Vdc	OMESSIE	CM2C024		
48 Vdc			CM2C048	
110 Vdc				CM2C0110
INPUT TECHNICAL DATA				
Rated voltage	12 Vdc ±10%	24 Vdc ±10%	48 Vdc ±10%	110 Vdc ±10%
Rated current (1 channel)	44 mA ±10%	22 mA ±10%	24 mA ±10%	11 mA ±10%
Turn ON time	15 ms	15 ms	15 ms	15 ms
urn OFF time	5 ms	5 ms	5 ms	20 ms
Protection circuit		dampin	g diode	
OUTPUT TECHNICAL DATA				
Type and number of contacts		DPDT A	AgSnO ₂	
Nominal current (resistive load)		8 A / 2		
Current breaking power		8	A	
Current of the fuse max.		-	_	
GENERAL TECHNICAL DATA				
Operating temperature range		-10	+50°C	
Coil/contact isolation		4 kVac	/ 60 s	
solation between output terminals		1 kVac / 60 s (betw	veen open contact)	
Protection degree		IP 20 IEC 52	9, EN60529	
Overvoltage category/Pollution degree		III ,	/ 2	
Reference Standard		IEC 664-1, DI	N VDE 0110.1	
Status display		greer		
Connection terminal		2.5 mm ² fixed scre	ew type AWG26-14	
Housing material		UL94V-0 pla		
Approx. weight		67 g (2		
Mounting information		vertical on rail adjacent with	out gap or panel with screw	
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5		PR/3/AC, PR/3/AC/ZB,	PR/3/AS PR/3/AS/7R	
Mounting rail type according to IEC60715/1135-7.3		1 11/3/AU, 1 11/3/AU/ZB,	- III U AU , I III U AU LU	
Replacement relay	(1) Cat. No. 8904040	Cat. No. 8904002	Cat. No. 8904009	Cat. No. 8904054
Screw type jumper	black	Cat. No. 0304002	0441 1101 000 1000	Out. 110. 000 100 1
Soloti Gpo jumpoi	white	out. 140. 7	_	
	blue	_	_	



4PDT single relay DC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

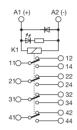


CE

NOTES

The height dimension includes 35 mm DIN rail.

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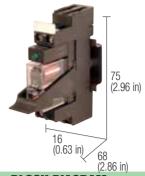


VERSIONS		Cat. No. XCM4C012	Cat. No. XCM4C024	Cat. No. XCM1C048	Cat. No. XCM1C110
12 Vdc		CM4C012			
24 Vdc		011110012	CM4C024		
48 Vdc			5	_	
110 Vdc					_
INPUT TECHNICAL DATA					
Rated voltage		12 Vdc ±10%	24 Vdc ±10%		
Rated current (1 channel)		75 mA ±10%	38 mA ±10%		
Turn ON time		20 ms	20 ms		
Turn OFF time		20 ms	20 ms		
Protection circuit			dampii	ng diode	
OUTPUT TECHNICAL DATA					
Type and number of contacts			4PDT	AgSnO ₂	
Nominal current (resistive load)				250 Vac	
Current breaking power			3	A	
Current of the fuse max.			-	_	
GENERAL TECHNICAL DATA					
Operating temperature range			-10	.+50°C	
Coil/contact isolation			4 kVa	c / 60 s	
Isolation between output terminals			1 kVac / 60 s (bet	ween open contact)	
Protection degree			IP 20 IEC 5	29, EN60529	
Overvoltage category/Pollution degree			III	/2	
Reference Standard			IEC 664-1, D	IN VDE 0110.1	
Status display			gree	n LED	
Connection terminal			2.5 mm ² fixed scr	ew type AWG26-14	
Housing material			UL94V-0 pl	astic material	
Approx. weight					
Mounting information			vertical on rail adjacent wit	nout gap or panel with screw	
MOUNTING ACCESSORIES					
Mounting rail type according to IEC60715/TH35-7.5			DD/2/AC DD/2/AC/7D	DD/2/AC DD/2/AC/7D	
Mounting rail type according to IEC60715/1H35-7.5 Mounting rail type according to IEC60715/G32			rn/3/AU, rn/3/AU/28	, PR/3/AS, PR/3/AS/ZB	
Replacement relay	(1)	Cat. No. 8904018	Cat. No. 8904030	_	
, ,	(1) black	Uai. NU. 0904010		XCMB27B	
Screw type jumper	white		Cat. No.	AUIVIDZ1 D	
	blue				



Single relay AC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available



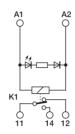
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NOTES

The height dimension includes 35 mm DIN rail.

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.



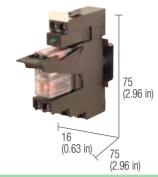


12 Vic	Cat. No. XCM1A230	Cat. No. XCM1A120	Cat. No. XCM1A024	Cat. No. XCM1A012		VERSIONS
CM1A120 CM1A				CM1A012		2 Vdc
INPUT TECHNICAL DATA Rated voltage			CM1A024			4 Vdc
INPUT TECHNICAL DATA 12 Vac ±10% 24 Vac ±10% 120 Vac ±10% 120 Vac ±10% 130 Fm ±10% 140 Fm ±10% 15 ms 15 ms 15 ms 15 ms 10 ms		CM1A120				20 Vdc
12 Vac ±10% 24 Vac ±10% 12 Vac ±10% 12 Vac ±10% 10.5 mA	CM1A230					30 Vdc
Asted current (1 channel) Asted current (1 chan						INPUT TECHNICAL DATA
turn ON time 15 ms 15 ms 10 ms	230 Vac ±10%	120 Vac ±10%	24 Vac ±10%	12 Vac ±10%		lated voltage
Turn OFF time 10 ms 10 m	6 mA ±10%	10.5 mA ±10%	48 mA ±10%	95 mA ±10%		lated current (1 channel)
Protection circuit OUTPUT TECHNICAL DATA Type and number of contacts Journal current (resistive load) Current breaking power Current breaking power Current of the fuse max. GENERAL TECHNICAL DATA Deparating temperature range Coll/contact isolation Deparating temperature range Journal of the fuse nount terminals Deparating temperature range Journal of the fuse nount terminals Deparating temperature range Journal of the fuse nount terminals Deparating temperature range Journal of the fuse nount terminals Deparating temperature range Journal of the fuse nount terminals Journal of the fuse nount terminal Journal of	15 ms	15 ms	15 ms	15 ms		urn ON time
OUTPUT TECHNICAL DATA ype and number of contacts yperating termerature registive load) yperating temperature range yperature range yperating temperature range yperature range yperating temperature range yperature range	10 ms	10 ms	10 ms	10 ms		urn OFF time
ype and number of contacts forminal current (resistive load) furnert breaking power furnert of the fuse max. GENERAL TECHNICAL DATA Iperating temperature range follocontact isolation for solation between output terminals rotection degree ference Standard ference Standard furnert of temperature ference Standard forminal form		_	_			rotection circuit
turnent freaking power urrent freaking power urrent of the fuse max. GENERAL TECHNICAL DATA perating temperature range policionatci solation where output terminals rotection degree preventiage category/Pollution degree [III / 2] perference Standard freshed solation terminal green LED connection terminal green LED						OUTPUT TECHNICAL DATA
turrent breaking power turrent of the fuse max. GENERAL TECHNICAL DATA Iperating temperature range oil/contact isolation foliation between output terminals rotection degree Ill / 2 eference Standard flec 664-1, DIN VDE 0110.1 tatus display connection terminal ousing material ousing material pprox. weight flounting information mounting accessories flounting rail type according to IEC60715/G32 eplacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049 Cat. No. 8904048 Cat. No. 8904049		gSn0 ₂	SPDT A			ype and number of contacts
GENERAL TECHNICAL DATA Operating temperature range Operation temperature range Operating temperature range Operat		250 Vac	12 A / 2			lominal current (resistive load)
GENERAL TECHNICAL DATA Operating temperature range Operation Operating temperature range Operating temperature range Operation Operating temperature range Operation Operating temperature Operation Operation Operation Operation Operation Operation Operation Operation Operation Opera		A	12			Current breaking power
Apperating temperature range Apperature range Apperating temperature range Apperating tempera		-	_			Current of the fuse max.
Coll/contact isolation 4 kVac / 60 s solation between output terminals 1 kVac / 60 s (between open contact) Protection degree IIP 20 IEC 529, EN60529 Divervoltage category/Pollution degree III / 2 Reference Standard IEC 664-1, DIN VDE 0110.1 Status display green LED Connection terminal 2.5 mm² fixed screw type AWG26-14 Rousing material UL94V-0 plastic material Approx. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049						GENERAL TECHNICAL DATA
A kVac / 60 s solation between output terminals rotection degree Divervoltage category/Pollution degree Reference Standard Retains display Reference Standard Retains display Reterence Standard Retains display Reta		+50°C	-10			Operating temperature range
Protection degree IP 20 IEC 529, EN60529 Evervoltage category/Pollution degree III / 2 Evervoltage category/Pollution degree		/ 60 s	4 kVac			Coil/contact isolation
Protection degree IP 20 IEC 529, EN60529 Exercited III / 2 Reference Standard IEC 664-1, DIN VDE 0110.1 Status display green LED Connection terminal 2.5 mm² fixed screw type AWG26-14 Housing material UL94V-0 plastic material VL94V-0 plastic material VL94V-0 plastic material Verprox. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		veen open contact)	1 kVac / 60 s (betv			solation between output terminals
Reference Standard IEC 664-1, DIN VDE 0110.1 Status display green LED Connection terminal 2.5 mm² fixed screw type AWG26-14 Housing material UL94V-0 plastic material UL94V-0 plastic material paprox. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		9, EN60529	IP 20 IEC 52			rotection degree
Status display green LED Connection terminal 2.5 mm² fixed screw type AWG26-14 Idusing material UL94V-0 plastic material Approx. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		2	III ,			Overvoltage category/Pollution degree
Connection terminal Connection to plastic material Connection Connection terminal Connection		VDE 0110.1	IEC 664-1, DI			leference Standard
Housing material JUL94V-0 plastic material pprox. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 Leplacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		LED	greer			tatus display
Approx. weight 54 g (1.91 oz) Mounting information vertical on rail adjacent without gap or panel with screw **MOUNTING ACCESSORIES** Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 **Cat. No. 8904048 **Cat. No. 8904049		w type AWG26-14	2.5 mm ² fixed scre			Connection terminal
Mounting information vertical on rail adjacent without gap or panel with screw Mounting rail type according to IEC60715/TH35-7.5 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		stic material	UL94V-0 pla			lousing material
MOUNTING ACCESSORIES Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32 Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049						pprox. weight
Mounting rail type according to IEC60715/TH35-7.5 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32 —— Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		out gap or panel with screw	vertical on rail adjacent with			Nounting information
Mounting rail type according to IEC60715/TH35-7.5 PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB Mounting rail type according to IEC60715/G32						MOUNTING ACCESSORIES
Mounting rail type according to IEC60715/G32 — — — — — — — — — — — — — — — — — — —		DD/3/AC DD/3/AC/7R	DD/3/AC DD/3/AC/7D			
Replacement relay (1) Cat. No. 8904016 Cat. No. 8904048 Cat. No. 8904049		- II/3/A3, FR/3/A3/LD	FN/3/MU, FN/3/MU/LD,			
(1)	Cat. No. 8904050	Cat No. 8904049	Cat No. 8904048	Cat No. 8904016	(1)	
	oat. No. 0304030			οαι. No. 0304010	black	crew type jumper
white Screw type jumper Nowin 106		_	AGIVII			ыны туре јантрен
blue —		_				



DPDT single relay AC input series CM

- Pluggable relay
- Mounting on DIN rail or panel through central screw
- Compact dimensions
- Cross and slotted screws
- Screw type jumper available

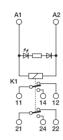


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NOTES

The height dimension includes 35 mm DIN rail.

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

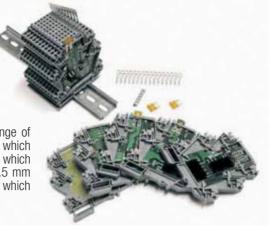


VERSIONS	Cat. No. XCM2A012	Cat. No. XCM2A024	Cat. No. XCM2A120	Cat. No. XCM2A230
2 Vac	CM2A012			
24 Vac		CM2A024		
20 Vac			CM2A120	
230 Vac				CM2A230
INPUT TECHNICAL DATA				
Rated voltage	12 Vac ±10%	24 Vac ±10%	120 Vac ±10%	230 Vac ±10%
Rated current (1 channel)	95 mA ±10%	48 mA ±10%	10.5 mA ±10%	6 mA ±10%
Furn ON time	15 ms	15 ms	15 ms	15 ms
Turn OFF time	10 ms	10 ms	10 ms	10 ms
Protection circuit		-	_	
OUTPUT TECHNICAL DATA				
ype and number of contacts		DPDT .	AgSnO ₂	
Nominal current (resistive load)		8 A / 2	250 Vac	
Current breaking power		8	Α	
Current of the fuse max.		-	_	
GENERAL TECHNICAL DATA				
Operating temperature range		-10	+50°C	
Coil/contact isolation		4 kVad	c / 60 s	
solation between output terminals		1 kVac / 60 s (bet	ween open contact)	
Protection degree		IP 20 IEC 52	29, EN60529	
Overvoltage category/Pollution degree			/ 2	
Reference Standard		IEC 664-1, DI	N VDE 0110.1	
Status display			n LED	
Connection terminal			ew type AWG26-14	
Housing material			astic material	
Approx. weight			2.37 oz)	
Mounting information		vertical on rail adjacent with	nout gap or panel with screw	
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5		PR/3/AC, PR/3/AC/ZB	, PR/3/AS, PR/3/AS/ZB	
Mounting rail type according to IEC60715/G32		-	—	
Replacement relay	(1) Cat. No. 8904017	Cat. No. 8904055	Cat. No. 8904056	Cat. No. 8904057
	black	Cat. No. 1	XCMB16B	
** * *	white	-	_	
	blue	-	_	



CK system interface

The series is a collection of interfaces for sensors and actuators, is composed by a wide range of electromechanical relay and solid state relay modules and passive interfaces in modular housings, which are only 6 mm wide thus saving valuable space. All products are mounted inside the CK housing, which is also available for use as a housing for custom. The CK housing can be equipped with six 2.5 mm spring-clamp terminals and four contacts for the insertion of a PTC parallel connection bridge, which provides for quick and easy circuit bridging and saves space and harness time.



The product range is currently composed by:

- Single electromechanical relay with 6 A/250 Vac SPDT protected with replaceable fuse, status Led display on front panel, AC/DC input and positive or negative common on relay coil.
- Double electromechanical relay with 5 A/250 Vac SPST (NO), two status LED displays on front panel, AC/DC input and positive or negative common on relay coil.
- Single solid state relay for common negative load, 5 A /48 Vdc output current, protected with replaceable fuse, status LED display on front panel and positive or negative common on input.

 • Double solid state relay suitable for 12-24 Vdc 2.5 A loads, status LED display on front panel and
- positive or negative common of the input and output as well.
- Diode-holder modules with common anode (CK...AC) or common cathode (CK...CC).
- Lamp and LED test modules.
- Supply connection and distribution modules with LED display.

Composition of an interface with the CK System:

- The required modules must be selected and mounted on the DIN rail.
- The common poles of inputs and outputs can be connected in parallel using the fast connection bridges PTC/CK/42.
- For the connection of inputs and outputs of the relay module interface, we recommend to use the **CKF** supply distribution module: it allows to connect and distribute the feeding potential to inputs and outputs on all adjacent modules; the CKF module can be mounted as first module, or even better, in the middle position of the interfaces assembly, to divide 50+50% the current on the bridge and to reduce voltage drop and heating; the CKF- - is available with LED for ON display, and is equipped with four 2.5 mm / AWG 26 ÷ 14 / 24 A rated spring-clamp terminals - input and output.
- In order to assure the IP XXB protection degree, the last module must be protected and insulated using the **CK/PT** end section.
- Main technical data and BLOCK DIAGRAM are printed on one side of each module; for individual terminal block marking, CNU/8 marking tags are available; CNU/8 marking tags are available in blank format for pen or plotter marking, or with the Cabur Jet marking printer.
- If the input and output power supply cables of the interface assembly are directly connected to eg. the first module, two cables must be connected on a single terminal block (feeding wire and load wire) forcing to reduce the cross-section of each conductor to less than 2.5 mm²; consequently, this means a current and a reduction of the total number of relay modules that can be fed; the problem can be solved by using the CKF feeder distribution module as described in the third point.

Easy Bridge system

The fast connection bridge PTC/CK/42 has 42 poles, and a rated current of 32 A; WARNING: the total current is limited by the rated current of the spring-clamp terminal block (24 A): if a PTC/CK serves 10 relays, a rated current of 2,4 A can be distributed on to each relay.

The use of PTC/CK bridges is simple and cost effective; the following instructions must be followed:

- after having cut the PTC/CK/42-pole bar according to required number of poles, in order to maintain the IPXXB protection degree the bar must be sheared in proximity of the end poles (see pictures 1 and 2)
- insert the jumper in the slot of the CK terminals (see picture 3);
- by using the blade of a screwdriver, the PTC bridge must be pushed down until it snaps into the female contacts; in case of long jumpers, the operation shall be started by pushing the bridge in the middle, then gradually on left / right sides; the jumper will then result completely IPXXB insulated (see
- to remove the jumper, the blade of a screwdriver shall be inserted into the slot provided in the upper side of the PTC bridge, then lifted up and finally extracted; in case of long jumpers, the bridge shall be lifted in the middle, then gradually on left / right sides (pictures 5 and 6).







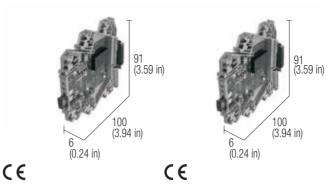






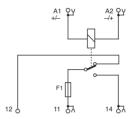
24 Vdc relay modules CKR series

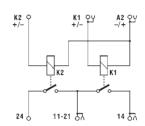
- Built-in replaceable contact protection fuse
- AC/DC common negative or positive input
- Status LED display, reverse polarity protection, crow-bar diode
- 6 mm wid
- Plug-in jumper available



NOTES

- (1) The contact rated voltage is 250 Vac; max operating voltage of the contact of the module is 50 Vac-Vdc, limited by the voltage ratings of the adopted type of fuse, which is rated for ≤50 Vac-75 Vdc SELV voltages; WARNING: if used with higher voltage, it does not guarantee breaking power and thus safety, and IP protection degree is lowered to IP 00; fuses with higher current ratings are not allowed and do not protect the contact against short circuit and overcurrents
- (2) Version available upon request.
- (3) In order to assure the IP20 protection degree, the last module must be protected and insulated using the CK/PT end section.



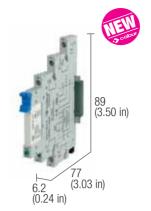


VERSIONS		Cat. No. XCKR16	Cat. No. XCKR25
1 channel		CKR16	_
2 channels		_	CKR25
INPUT TECHNICAL DATA			
Rated voltage		24 Vac/dc ± 10%	24 Vac/dc ±10%
Rated current (1 channel)		≤15 mA ± 10% @ 24 Vdc	≤13 mA ±10% @ 24 Vdc
Turn ON time		5 ms	5 ms
Turn OFF time		10 ms	10 ms
Protection circuit		bridge rectifier	bridge rectifier
OUTPUT TECHNICAL DATA			
Type and number of contacts		SPDT AgSnO ₂	2PST (NO) AgSnO ₂
Nominal current (resistive load)		6 A / 250 Vac	5 A / 250 Vac
Current breaking power		30 A	30 A
Current of the fuse max.		_	_
GENERAL TECHNICAL DATA			
Operating temperature		-20+60°C	-20+60°C
Coil/contact isolation		3 KVac / 60 s	3 KVac / 60 s
solation between output terminals			
Protection degree		IP 20 IEC529, EN60529	IP 00 IEC529, EN60529
Overvoltage category / pollution degree		II / 2	II / 2
Reference Standard		IEC 664-1, DIN VDE 0110.1	IEC 664-1, DIN VDE 0110.1
Status display		green LED	green LED
Connection terminals		2.5 mm ² AWG26-14 fixed spring type	2.5 mm ² AWG26-14 fixed spring type
Housing material		polyamide UL94V-0	polyamide UL94V-0
Approx. weight		40 g (1.41 oz)	43 g (1,52 oz)
Mounting information		vertical on rail adjacent without gap	vertical on rail adjacent without gap
Mounting information			
ACCESSOIRES DE MONTAGE			
Mounting rail type according to IEC60715/TH35		PR/3/AC, PR/3/AC/ZB,	, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32		_	_
Replacement relay	(1)	_	_
Plug-in jumper	_	Cat. No. PTCCK42 (42 poles)	Cat. No. PTCCK42 (42 poles)
Marking tags	blank	Cat. No. NU0851	Cat. No. NU0851
End plate		Cat. No. XCKPT	Cat. No. XCKPT



Relay modules AC/DC input series CWRE

- Pluggable relay
- Status LED display
- 6.2 mm wide
- Plug-in jumper available





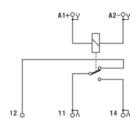
NOTES

The height dimension includes 35 mm DIN rail.

- (1) Version available upon request; for information call our sales department, local agent or representative.
- (2) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

APPLICAZIONI

The CWRE series is suitable for the commutation of signals and is equipped with a pull-out relay to make the maintenance operations easy. Furthermore this series offers the possibility to execute the parallel on both the input and output side by the means of a proper comb jumper.



VERSIONS		Cat. No. X766848	Cat. No. X766842	Cat. No. X766845	Cat. No. X766846	Cat. No. X766847
12 Vac/dc		CWRE7-0848				
24Vac/dc			CWRE7-0842			
48 Vac/dc (1)				CWRE7-0845 (1)		
115 Vac/dc					CWRE7-0846	
230 Vac/dc						CWRE7-0847
INPUT TECHNICAL DATA						
Rated voltage		12 Vac/dc ±10%	24 Vac/dc ±10%	48 Vac/dc ±10%	115 Vac/dc ±10%	230 Vac/dc ±10%
Rated current (1 channel)		10 mA ±10%	7 mA ±10%	5 mA ±10%	4 mA ±10%	4 mA ±10%
Turn ON time		8 ms	8 ms	7 ms	8 ms	8 ms
Turn OFF time		5 ms	5 ms	7 ms	13 ms	13 ms
Protection circuit				bridge rectifier		
OUTPUT TECHNICAL DATA						
Type and number of contacts				SPDT AgSnO ₂ (3)		
Nominal current (resistive load)				6 A / 250 Vac ; 6 A / 30 Vd	C	
Current breaking power			DC 13: 24 V	/ 1A; 115V / 200 mA; 2	30 V / 100 mA	
Current of the fuse max.				_		
GENERAL TECHNICAL DATA						
Operating temperature				-40+70°C		
Coil/contact isolation				4 kVac / 60 s		
Isolation between output terminals			1 kV	ac / 60 s (between open co	ntact)	
Protection degree				IP 20 IEC 529, EN60529		
Overvoltage category / pollution degree				III / 2		
Reference Standard				IEC 664.1, DIN VDE 0110.1		
Status display				green LED		
Connection terminals			2.5 ו	mm ² fixed screw type AWG2	6-14	
Housing material				UL94V-0 plastic material		
Approx. weight				35 g (1.23 oz)		
Mounting information			veri	tical on rail adjacent without	gap	
MOUNTING ACCESSORIES						
Mounting rail type according to IEC60715/TH35-7.5			PR/3/AC,	PR/3/AC/ZB, PR/3/AS, PF	R/3/AS/ZB	
Mounting rail type according to IEC60715/G32				_		
Replacement relay	(2)		Cat. No. 8904027			
Plug-in jumper	black			_		
	white			_		
	blue		CWBK7	7-0813 (Cat. No. X766813)	(20 poli)	



Multiple relay modules quick selection table

These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

Number of relays	Input rated voltage	Output type / no. of contacts	Rated current	Notes	Туре	Cat. No.	Page
4	24 Vdc	SPDT	12 A	(1) (4)	R41E24	XR041E24	113
8	24 Vdc	SPDT	12 A	(1) (4)	R81E24	XR081E24	113
16	24 Vdc	SPDT	12 A	(1) (4)	R161E24	XR161E24	113
4	24 Vac/dc	SPDT	12 A	(1) (6)	R41EAD	XR041EAD	114
8	24 Vac/dc	SPDT	12 A	(1) (6)	R81EAD	XR081EAD	114
16	24 Vac/dc	SPDT	12 A	(1) (6)	R161EAD	XR161EAD	114
4	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R41U24F	XR041U24F	115
8	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R81U24F	XR081U24F	115
16	24 Vac/dc	SPDT	12 A	(1) (6) (8)	R161U24F	XR161U24F	115
4	24 Vdc	DPDT	8 A	(1) (4)	R42E24	XR042E24	116
8	24 Vdc	DPDT	8 A	(1) (4)	R82E24	XR082E24	116
16	24 Vdc	DPDT	8 A	(1) (4)	R162E24	XR162E24	116
4	24 Vac/dc	DPDT	8 A	(1) (6)	R42EAD	XR042EAD	118
8	24 Vac/dc	DPDT	8 A	(1) (6)	R82EAD	XR082EAD	118
16	24 Vac/dc	DPDT	8 A	(1) (6)	R162EAD	XR162EAD	118
8	24 Vac/dc	SPDT	12 A	(1) (6) (9) (10)	RMP081CM	XRMP081CM	119
4	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R41E11A	XR041E1A	120
8	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R81E11A	XR081E1A	120
16	110 Vdc/120 Vac	SPDT	10 A	(1) (6)	R161E11A	XR161E1A	120
4	230 Vac	SPDT	10 A	(1) (6)	R41E22A	XR041E2A	121
8	230 Vac	SPDT	10 A	(1) (6)	R81E22A	XR081E2A	121
16	230 Vac	SPDT	10 A	(1) (6)	R161E22A	XR161E2A	121
4	24 Vac/dc	SPDT	8 A	(2) (6)	CR4-1	XCR41	122
4	24 Vac/dc	SPDT	8 A	(1) (6)	CRE4-1	XCRE41	122
8	24 Vac/dc	SPST(NO)	8 A	(1) (6)	CRE8-1	XCRE81	122
8	24 Vac/dc	SPST(NO)	8 A	(2) (6)	CR8-1	XCR81	122
4	24 Vac/dc	DPDT	8 A	(2) (6)	CR4-2SC	XCR42SC	123
4	24 Vac/dc	DPDT	8 A	(1) (6)	CRE4-2SC	XCRE42SC	123

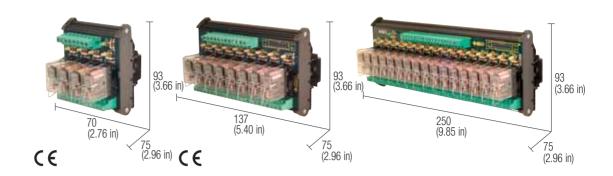
Note

- (1) version with pluggable relay
- (2) version with fixed relay
- (3) with socket but without relay
- (4) negative common, positive command
- (5) positive common, negative command

- (6) universal control voltage, negative DC command, positive DC, AC
- (7) with connector input command
- (8) with protection fuse on the relay contact
- (9) with test push button
- (10) with test switch

24 Vdc SPDT relay modules negative common

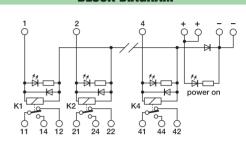
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail.
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical

BLOCK DIAGRAM



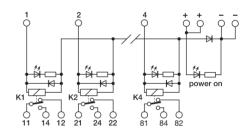
4 relay module

VERSIONS	Cat. No. XR041E24	Cat. No. XR081E24	Cat. No. XR161E24
4 relay module	R41E24		
8 relay module		R81E24	
16 relay module			R161E24
INPUT TECHNICAL DATA			
Rated voltage	24 Vdc ± 10%		
Rated current (1 channel)	22 mA ± 10%		
Turn ON time	15 ms		
Turn OFF time	5 ms		
Protection circuit	damping & polarity protection diode		
OUTPUT TECHNICAL DATA			

Nominai ioad (resistive)	
Current breaking power	
Current of the fuse max.	

Type and number of contacts

SPDT AgSnO ₂	
12 A / 250 Vac	
12 A	



8 relay module

GENERAL TECHNICAL DATA Operating temperature range Coil/contact isolation Isolation between output terminals Protection degree Overvoltage category / Pollution degree Reference Standard Status display Connection terminal Housing material Approx. weight

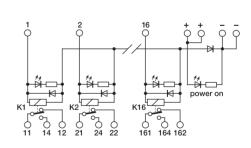
Mounting information

MOUNTING ACCESSORIES	
Mounting rail type according to IEC60715/TH3	5
Mounting rail type according to IEC60715/G3	32
Replacement relay (1)	
Screw type jumper	ed
wh	ite

blue



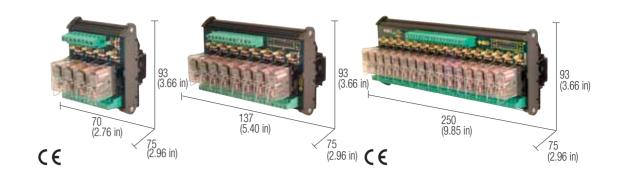
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
Cat. No. 8904001
_
_
_



16 relay module

24 Vdc SPDT relay modules positive common

- DC control voltage
- · Positive control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail. (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical

Article available until sell-out XR041E24P will be replaced by XR041EAD XR081E24P will be replaced by XR081EAD XR161E24P will be replaced by XR161EAD

, N power on

BLOCK DIAGRAM

4 relay module

VEKSIUN
4 relay module
8 relay module

16 relay module
INPUT TECHNICAL DATA

Rated voltage Rated current (1 channel)

Turn ON time Turn OFF time

Protection circuit

Gat. No. Anosiczer	Ual. NO. ANUOTEZAF	Gal. No. ARTOTEZAF
R41E24P		
	R81E24P	
		R161E24P

24 Vdc \pm 10% $22 \text{ mA} \pm 10\%$

15 ms

5 ms damping & polarity protection diode

SPDT AgSnO

12 A / 250 Vac 12 A

|| H power on

8 relay module

OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive) Current breaking power Current of the fuse max

GENERAL TECHNICAL DATA

Operating temperature range Coil/contact isolation

Isolation between output terminals

Protection degree Overvoltage category / Pollution degree

Reference Standard

Status display

Connection terminal Housing material

Approx. weight

Mounting information

-10...+50°C 2.5 KVac / 60 s KVac / 60 s (between open contact) IP 00 IEC 529, EN60529 III/2 IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm2 fixed screw type UL94V-0 plastic material 188 g (6.63 oz) 657 g (23,17 oz) 342 g (12.06 oz)

vertical on rail adjacent without gap

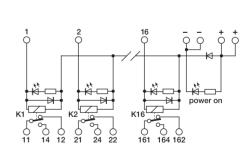
MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1)

Screw type jumper

red white blue

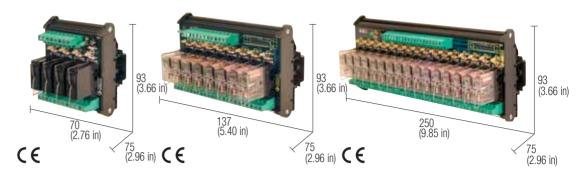
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001



16 relay module

24 Vac/dc SPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail.

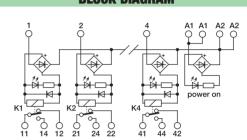
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical

(2) Version available upon request.

POWER SUPPLY

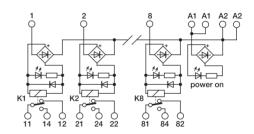
A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
Δ1 = ~	A2 = ~	AC nower supply

BLOCK DIAGRAM



4 relay module

VERSIONS	Cat. No. XR041EAD	Cat. No. XR081EAD	Cat. No. XR161EAD	
4 relay module	R41EAD			
8 relay module		R81EAD		
16 relay module			R161EAD	
INPUT TECHNICAL DATA				
Rated voltage	24 Vac/dc ± 10%			
Rated current (1 channel)	22 mA ± 10%			
Turn ON time	15 ms			
Turn OFF time	5 ms			
Protection circuit	bridge rectifier			
OUTPUT TECHNICAL DATA				
Type and number of contacts		SPDT AgSnO ₂		



8 relay module

GENERAL TECHNICAL DATA

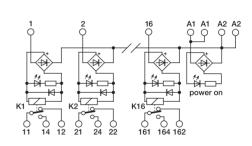
Nominal load (resistive)

Current breaking power

Current of the fuse max

Operating temperature range
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category / Pollution degree
Reference Standard
Status display
Connection terminal
Housing material
Approx. weight
Mounting information

12 A / 250 Vac 12 A



16 relay module

MOUNTING ACCESSORIES

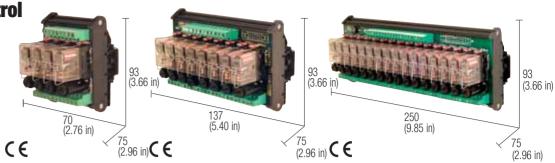
Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper red

red white blue PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001

_

24 Vac/dc SPDT relay modules universal control voltage with fuse

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay
- Output contact with protection fuse



NOTES

The height dimension includes 35 mm DIN rail. (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical. (2) The interface is supplied without a fuse and the screw plug of the fuse-holder is provided in a bag inside the packaging. The fuse must be dimensioned according to load. The max. value of 6.3 A is referred to EN60127-complying fuses and the homologation rated current of the fuse-holder. Fuses of a higher value may damage the fuse-holder and module.

udes 35 mm DIN rail. (1)		POWE	R SUPPLY
g, they may be modified	Δ1 − ⊥	A2 = -	negat

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

BLOCK DIAGRAM A1 A1 A2 A2 A1 A1 A2 A2 A1 A1 A2 A2 A1 A1 A2 A2 A1 A1 A2 A2

4 relay module

		S		

4 relay module
8 relay module
16 relay module

INPIIT TECHNICAL DATA

IIII OI IEUIIIIUAE DAIA
Rated voltage
Rated current (1 channel)
Turn ON time
Turn OFF time
Protection circuit

K41U24F		
	R81U24F	
		R161U24F
	24 Vac/dc ± 10%	
	$22 \text{ mA} \pm 10\%$	
	15 ms	
	10 ms	

bridge rectifier

A1 A1 A2 A2 A1 A1 A2 A2 K1 A1 A2 A2 KB POWER ON

8 relay module

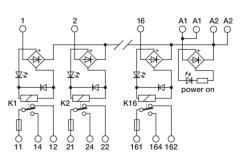
OUTPUT TECHNICAL DATA

Type and number of contacts
Nominal load (resistive)
Current breaking power
Current of the fuse max.

SPDT AgSnO ₂ per 4 relé
12 A / 250 Vac
12 A
6,3 A (2)



-10+50°C						
2.5 KVac / 60 s						
1 KVac / 60 s (between open contact)						
IP 00 IEC 529, EN60529						
III/2						
IEC 664-1, DIN VDE 0110.1						
green LED / yellow LED						
2.5 mm² fixed screw ty⁰e						
UL94V-0 plastic material						
210 g (7.41 oz) 326 g (11.51 oz) 770 g (27.18 oz)						
vertical on rail adjacent without gap						
UL94V-0 plastic material 210 g (7.41 oz) 326 g (11.51 oz) 770 g (27.18 oz)						



16 relay module

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32
Replacement relay (1)

Screw type jumper red white blue

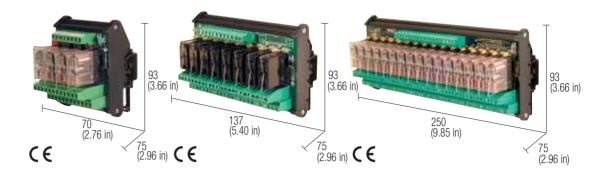
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001

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24 Vdc DPDT relay modules negative common

- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail.
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

BLOCK DIAGRAM							
	k2	4 K4 41 44 81 84					

4 relay module

VERSIONS	Cat. No. XR042E24	Cat. No. XR082E24	Cat. No. XR162E24
4 relay module	R42E24		
8 relay module		R82E24	
16 relay module			R162E24
INPUT TECHNICAL DATA			
Rated voltage		24 Vdc ± 10%	
Data dammant (d. alaman)		00 4 400/	

 Rated voltage
 24 Vdc ± 10%

 Rated current (1 channel)
 22 mA ± 10%

 Turn ON time
 15 ms

 Turn OFF time
 10 ms

 Protection circuit
 damping & polarity protection diode

K1 -	', → K] 	K2	# <u> </u>)
11 6	14 0 94	12	021 01 101	24 0 0 104	10



<u>*</u>

OUTPUT TECHNICAL DATAType and number of contacts

Nominal load (resistive)
Current breaking power
Current of the fuse max.

DPDT AgNi	
8 A / 250 Vac	
8 A	
_	

GENERAL TECHNICAL DATAOperating temperature range

Coil/contact isolation Isolation between output terminals Protection degree

Overvoltage category / Pollution degree

Reference Standard
Status display
Connection terminal
Housing material

Approx. weight

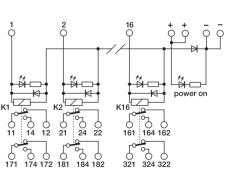
Mounting information

-10...+50°C 2.5 KVac / 60 s 1 KVac / 60 s (between open contact) IP 00 IEC 529, EN60529 III / 2 IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm² fixed screw ty²e UL94V-0 plastic material 225 g (7.94 oz) | 419 g (14.78 oz) | 811 g (28.60 oz) vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper red
white

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904002 — —

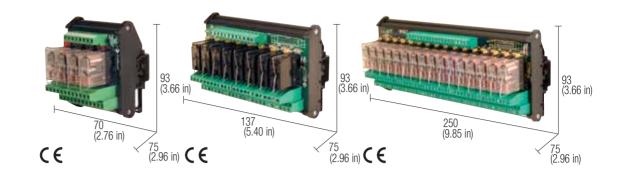


16 relay module



24 Vdc DPDT relay modules positive common

- DC control voltage
- · Positive control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail.

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

Article available until sell-out XR042E24P will be replaced by XR042EAD XR082E24P will be replaced by XR082EAD XR162E24P will be replaced by XR162EAD

BLUCK DIAGRAM	
BLUGK DIAGRAM 1 2 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
51 54 52 61 64 62 81 84 82	

4 relay module

VERSIONS	Cat. No. XR042E24P	Cat. No. XR082E24P	Cat. No. XR162E24P
		Udl. NU. ANUOZEZ4F	Udl. NU. AN IUZEZ4F
4 relay module	R42E24P		
8 relay module		R82E24P	
16 relay module			R162E24P
INPUT TECHNICAL DATA			
Rated voltage		24 Vdc ± 10%	
Rated current (1 channel)		22 mA ± 10%	
Turn ON time		15 ms	
Turn OFF time		5 ms	
Protection circuit	damp	oing & polarity protection	diode
OUTPUT TECHNICAL DATA			
Type and number of contacts		DPDT AgNi	

1 2 O O	\$ + + \$ + +
- 	power on
0 0 0 0 0 0 11 14 12 21 24 22	0 0 81 84 82
91 94 92 101 104 102	161 164 162

8 relay module

GENERAL TECHNICAL DATA

Nominal load (resistive)

Current breaking power

Current of the fuse max

Approx. weight

Mounting information

Operating temperature range
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category / Pollution degree
Reference Standard
Status display
Connection terminal
Housing material

-10...+50°C
2.5 KVac / 60 s
1 KVac / 60 s (between open contact)
IP 00 IEC 529, EN60529
III / 2
IEC 664-1, DIN VDE 0110.1
green LED / yellow LED
2.5 mm² fixed screw ty²e
UL.94V-0 plastic material
225 g (7.94 oz) | 419 g (14.78 oz) | 811 g (28.60 oz)
vertical on rail adjacent without gap

8 A / 250 Vac 8 A

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper red

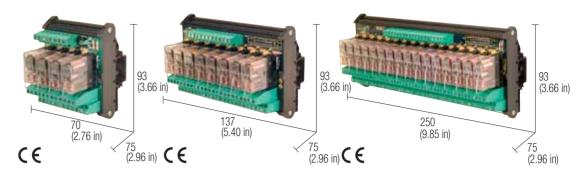
red white blue PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904002

117

24 Vac/dc DPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay

Protection circuit



NOTES

The height dimension includes 35 mm DIN rail.
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.
(2) Version available upon request.

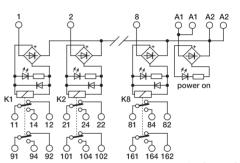
POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

4 relay module

VERSIONS	Cat. No. XR042EAD	Cat. No. XR082EAD	Cat. No. XR162EAD
4 relay module	R42EAD		
8 relay module		R82EAD	
16 relay module			R162EAD
INPUT TECHNICAL DATA			
Rated voltage		24 Vac/dc ± 10%	
Rated current (1 channel)		22 mA ± 10%	
Turn ON time		15 ms	
Turn OFF time		5 ms	

OUTPUT TECHNICAL DATA	
Type and number of contacts	DPDT AgNi
Nominal load (resistive)	8 A / 250 Vac
Current breaking power	A 8
Current of the fuse max.	_



8 relay module

GENERAL TECHNICAL DATA

Operating temperature range
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category / Pollution degree
Reference Standard
Status display
Connection terminal
Housing material
Approx. weight
Mounting information

-10+50°C				
2.5 KVac / 60 s				
1 KVac / 60 s (between open contact)				
IP 00 IEC 529, EN60529				
III / 2				
IEC 664-1, DIN VDE 0110.1				
green LED / yellow LED				
2.5 mm ² fixed screw ty ^o e				
UL94V-0 plastic material				
227 g (8.01 oz) 427 g (15.07 oz) 835 g (29.48 oz)				
vertical on rail adjacent without gap				

bridge rectifier

16 relay module

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/ TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1)

Screw type jumper r

red white blue PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

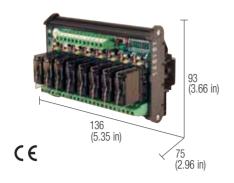
PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904002

118



24 Vac/dc relay modules universal control voltage with test push button

- DC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay
- Test with push button and micro switch



NOTES

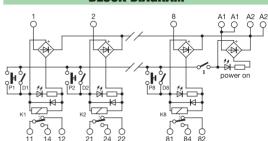
The height dimension includes 35 mm DIN rail. (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

(2) They replace XRP08124 and XRD08124 models

POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
Δ1 = ~	A2 = ~	AC nower supply

BLOCK DIAGRAM



VERSIONS

Con pulsante e dip switch

Cat. No. XRMP081CM (2) RMP081CM

INPUT TECHNICAL DATA

Rated voltage Rated current (1 channel) Turn ON time Turn OFF time Protection circuit

24 Vac/dc ± 10%

 $22 \text{ mA} \pm 10\%$ 15 ms 5 ms bridge rectifier

Type and number of contacts Nominal load (resistive) Current breaking power Current of the fuse max

SPDT AgSnO₂ per 8 relé 12 A / 250 Vac 12 A

OUTPUT TECHNICAL DATA

Operating temperature range Coil/contact isolation Isolation between output terminals Protection degree Overvoltage category / Pollution degree Reference Standard Status display Connection terminal Housing material Approx. weight Mounting information

GENERAL TECHNICAL DATA

-10...+50°C 2.5 KVac / 60 s

KVac / 60 s (between open contact) IP 00 IEC 529, EN60529

III/2IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm2 fixed screw type

UL94V-0 plastic material 350 g (12.36 oz) vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1) Screw type jumper

red white blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001

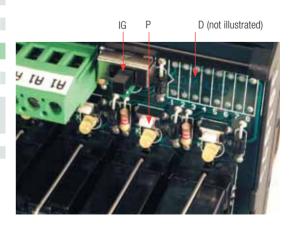
test button dip-switch

master switch (disable the push button and dip-switch)

This series of products allows piloting with alternating and direct current, in which case only positive control is possible. We also recommend cutting JP jumpers if piloting takes place via low-current devices (e.g. proximity sensors)

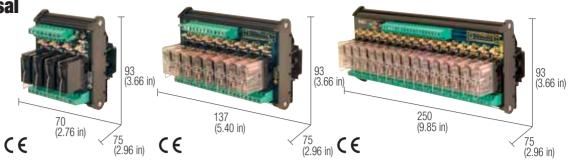
On both versions it is possible the temporary turn on of the relay by pushing the

On model RD08124 it is possible to switch on the relays permanently with a Dip-Switch.



110...120 Vac/dc SPDT relay modules universal control voltage

- DC and AC control voltage
- Positive or negative control voltage
- Status LED display
- Pluggable relay



NOTES

The height dimension includes 35 mm DIN rail. (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

Article available until sell-out

With 110 Vdc rated voltage:

- replace XR041E11A with no.4 XCM1C110 and no.1 XCMB16B
- replace XR081E11A with no.8 XCM1C110 and no.1 XCMB16B
- replace XR161E11A with no.16 XCM1C110 and no.2 XCMB16B With 120 Vac rated voltage:
- replace XR041E11A with no.4 XCM1A120 and no.1 XCMB16B
- replace XR081E11A with no.8 XCM1A120 and no.1 XCMB16B
- replace XR161E11A with no.16 XCM1A120 and no.2 XCMB16B

1 2	4 A1 A1 A2 A2 O O O O
K1 K2 K2	power on
	[° 6]
0 0 0 0 0 0 11 14 12 21 24 22)

BLOCK DIAGRAM

4 relay module

VERSIONS	Cat. No. XR041E1A	Cat. No. XR081E1A	Cat. No. XR161E1A
4 relay module	R41E11A		
8 relay module		R81E11A	
16 relay module			R161E11A
INPUT TECHNICAL DATA			
Rated voltage	110 Vdc / 120 Vac ± 10%		
Rated current (1 channel)	11 mA ± 10%		
Turn ON time		7 ms	
Turn OFF time		3 ms	
Protection circuit		bridge rectifier	

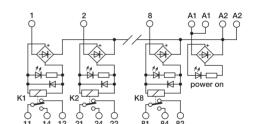
OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive) Current breaking power

110 Vdc / 1	20 Vac ± 10%
11 m/	A ± 10%
7	ms
3	ms
bridge	rectifier

SPDT AgNi 12 A / 250 Vac

Current of the fuse max



8 relay module

GENERAL TECHNICAL DATA

Operating temperature range Coil/contact isolation

Isolation between output terminals

Protection degree

Overvoltage category / Pollution degree

Reference Standard Status display

Connection terminal

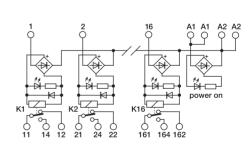
Housing material

Approx. weight

Mounting information

-10...+50°C 2.5 KVac / 60 s KVac / 60 s (between open contact) IP 00 IEC 529, EN60529 III/2IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm2 fixed screw type UL94V-0 plastic material 192 g (6.76 oz) 688 g (24.29 oz) 345 g (12.18 oz) vertical on rail adjacent without gap

12 A



16 relay module

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1)

Screw type jumper

red white blue

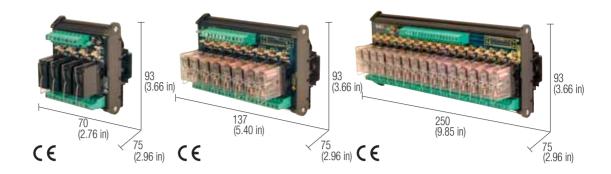
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904047

POWER SUPPLY

A1 = +	A2 = -	negative common
A1 = -	A2 = +	positive common
A1 = ~	A2 = ~	AC power supply

230 Vac SPDT relay modules

- AC control voltage
- Status LED display
- Pluggable relay

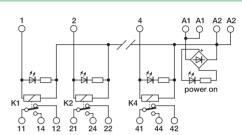


NOTES

The height dimension includes 35 mm DIN rail.
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

Article available until sell-out replace XR041E22A with no.4 XCM1A230 and no.1 XCMB16B replace XR081E22A with no.8 XCM1A230 and no.1 XCMB16B replace XR161E22A with no.16 XCM1A230 and no.2 XCMB16B

BLOCK DIAGRAM



4 relay module

VERSIONS	Cat. No. XR041E2A	Cat. No. XR081E2A	Cat. No. XR161E2A
4 relay module	R41E22A		
8 relay module		R81E22A	
16 relay module			R161E22A
INPUT TECHNICAL DATA			
Rated voltage		230 Vac ± 10%	
Rated current (1 channel)		10 mA ± 10%	
Turn ON time		7 ms	
Turn OFF time		2 ms	
Protection circuit		_	
OUTPUT TECHNICAL DATA			
Type and number of contacts		SPDT AgSnO ₂	

0	2 	8	A1 A1 A2 A2
- 11	74		
K1 57	K2	K8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power on

8 relay module

GENERAL TECHNICAL DATA

Nominal load (resistive)

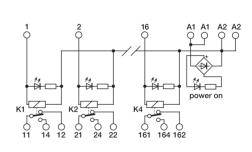
Current breaking power

Current of the fuse max

Operating temperature range
Coil/contact isolation
Isolation between output terminals
Protection degree
Overvoltage category / Pollution degree
Reference Standard
Status display
Connection terminal
Housing material
Approx. weight
Mounting information

-10+50°C				
2.5 KVac / 60 s				
1 KVac / 60 s (between open contact)				
IP 00 IEC 529, EN60529				
III/2				
IEC 664-1, DIN VDE 0110.1				
green LED / yellow LED				
2.5 mm ² fixed screw ty ^o e				
UL94V-0 plastic material				
192 g (6.76 oz) 345 g (12.18 oz) 688 g (24.29 oz)				
vertical on rail adjacent without gap				

12 A / 250 Vac 12 A



16 relay module

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35
Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper red

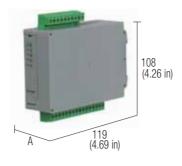
red white blue PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904050

121



Super compact 24 Vac/dc relay modules universal control voltage

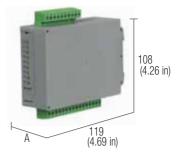
- 3 kV I/O isolation
- 1 kV isolation between output contact
- Fast connection whit pluggable terminals
- DC and AC control voltage
- Positive or negative control voltage



A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

Cat. No. XCR4

 $C \in$



A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

NOTES

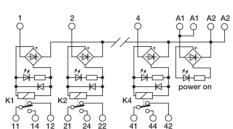
 $C \in$

The height dimension includes 35 mm DIN rail. (1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

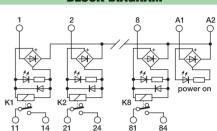
CR4-1 and CRE4-1: relay module with SPDT, inputs and outputs with pluggable terminals.

CR8-1 and CR8E-1: 8 relay module with SPST (NO), inputs and outputs with pluggable terminals.

BLOCK DIAGRAM



BLOCK DIAGRAM



Pluggable relay	
Fixed relay	

INPUT TECHNICAL DATA

VERSIONS

Rated voltage Rated current (1 channel) Turn ON time Turn OFF time Protection circuit

CRE4-1	
	CR4-1

Cat. No. XCRE41

SPDT AgNiO per 4 relé

8 A / 250 Vac

2000 VA

Cat. No. XCRE81	Cat. No. XCR81
CRE8-1	
	CR8-1

24 Vac/dc ± 10%

 $16 \text{ mA} \pm 10\%$

7 ms

3 ms

bridge rectifier

OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive) Current breaking power Current of the fuse max

24 Vac/dc ± 10%	
$16 \text{ mA} \pm 10\%$	
7 ms	
3 ms	
bridge rectifier	

SPST(NO) per 8 relay 8 A / 250 Vac 2000 VA

GENERAL TECHNICAL DATA

Operating temperature range Coil/contact isolation Isolation between output terminals Protection degree Overvoltage category / Pollution degree Reference Standard Status display Connection terminal Housing material Approx. weight Mounting information

-10...+50°C 2.5 KVac / 60 s KVac / 60 s (between open contact) IP 20 IEC 529, EN60529 III/2 IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm² fixed screw type UL94V-0 plastic material 143 g (5.05 oz) (180 g [6.35 oz] pluggable version)

-10...+50°C 3 KVac / 60 s 1 KVac / 60 s (between open contact) IP 20 IEC 529, EN60529 III/2IEC 664-1, DIN VDE 0110.1 green LED / yellow LED 2.5 mm² fixed screw type UL94V-0 plastic material 199 g (7.02 oz) (250 g [8.83 oz] pluggable version) vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1) Screw type jumper

red white blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904042

vertical on rail adjacent without gap

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904042



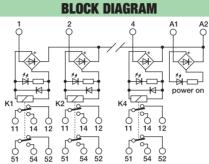
Super compact 24 Vac/dc relay modules universal control voltage

- 3 kV I/O isolation
- 1 kV isolation between output contact
- Fast connection whit pluggable terminals
- DC and AC control voltage
- Positive or negative control voltage



A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.



VERSIONS

Pluggable relay Fixed relay

INPUT TECHNICAL DATA

Rated voltage

Turn OFF time

Rated current (1 channel) Turn ON time

Protection circuit

 $25 \text{ mA} \pm 10\%$

bridge rectifier

OUTPUT TECHNICAL DATA

Current of the fuse max

GENERAL TECHNICAL DATA

Operating temperature range

Coil/contact isolation

Isolation between output terminals

Protection degree

Overvoltage category / Pollution degree

Reference Standard

Status display Connection terminal

Housing material

Approx. weight

Mounting information

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1)

Screw type jumper

red white blue

-10...+50°C 2.5 KVac / 60 s

KVac / 60 s (between open contact)

IP 20 IEC 529, EN60529

III/2

IEC 664-1, DIN VDE 0110.1

green LED / yellow LED

2.5 mm² fixed screw type

UL94V-0 plastic material

137 g (180 g pluggable version) vertical on rail adjacent without gap

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904052

NOTES

The height dimension includes 35 mm DIN rail.

 ϵ

Cat. No. XCR42SC Cat. No. XCRE42SC

CRE4-2SC

CR4-2SC

24 Vac/dc ± 10%

7 ms

2 ms

Type and number of contacts

Nominal load (resistive) Current breaking power

DPDT AgNi per 4 relé



PLG Interface modules quick selection table These tables allow you to quickly select only the items, then check if all product's technical data meet your application requirements.

Input modules

Number of channels	Connection type	Notes	Туре	Cat. No.	Page
8 without isolation	12 Vdc	(1) (4)	IF16S7	XIF16S7	125
8 without isolation	12 Vdc	(1) (3)	IF16LS7	XIF16LS7	125
32 without isolation	12 Vdc	(1) (4)	IF416S7	XIF416S7	125
32 without isolation	12 Vdc	(1) (3)	IF416LS7	XIF416LS7	125

Output modules

Number of	lunut valtaga	Out	put	Notes	Tuno	Cat. No.	Dogo
channels	Input voltage	type / no. of contacts	rated current	Notes	Туре	Gat. No.	Page
8	24 Vdc	SPST(NO)	8 A	(1) (3) (5)	CR8-3	XCR83	126
8	24 Vdc	SPST(NO)	8 A	(1) (3) (5)	CRE8-3	XCRE83	126
8	24 Vdc	SPDT	10 A	(1) (3) (5)	RFE8124	XRFE8124	126
8	24 Vdc	DPDT	5 A	(1) (3) (5)	RFE8224	XRFE8224	127
16	24 Vdc	SPDT	10 A	(2) (3) (5)	RFE16124	XRFE16124	128
16	24 Vdc	DPDT	5 A	(2) (3) (5)	RFE16224	XRFE16224	128

Notes

- (1) suitable for PLC Siemens S7 series
- (2) suitable for PLC Telemecanique
- (3) with LED to display the status

- (4) without LED to display the status
- (5) version with pluggable relay



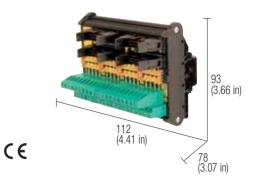
PLC S7 300 & S7 400 Interface modules

- I/O modules
- With or without status LED display
- Fast connection

Item available till sell-out

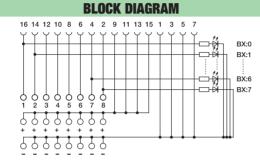
 ϵ





NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.



	BLOCK DIAGRA	AM
XM-0	B0:0 B1:1 B1:1 B1:1 B1:1 B1:1 B1:1 B1:1	B3:1

VERSIONS

With LED to display the status Without LED to display the status

_	
IF16S7	

Cat. No. XIF16S7

Cat. No. XIF416S7
IF416S7

24 Vdc ± 10%

5 mA ± 10% (only with "Status LED" version)

INPUT TECHNICAL DATA

Rated voltage
Rated current (1 channel)
Turn ON time
Turn OFF time
Protection circuit

24 Vdc ± 10%
5 mA ± 10% (only with "Status LED" version)
_
_
_

8 channels without isolation

_
4 x 8 channels without isolation

OUTPUT TECHNICAL DATAType and number of contacts

Nominal load (resistive)
Current breaking power
Current of the fuse max.

GENERAL TECHNICAL DATA
Operating temperature
Coil/contact isolation
Indiation between autout townings

Isolation between output terminals
Protection degree
Overvoltage category / Pollution degree
Reference Standard
Status display
Connection terminals
Housing material
Approx. weight

Mounting information

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35

Mounting rail type according to IEC60715/G32

Mounting rail type according to IEC60715/G32
Replacement relay (1)
Screw type jumper red
white
blue

-10+50°C	
_	
_	
IP 00 IEC529, EN60529	
II / 2	
IEC 664-1	
LED (solo su IF16LS7)	
flat cable 16 poles male and 2.5 mm ² fixed screw ty ^o e	
polyamide UL94V-0	
_	
_	

polyamide UL94V-0
_
_
PR/3/AC, PR/3/AS
PR/DIN/AC - PR/DIN/AS - PR/DIN/AL
_
_

-10+50°C
_
_
IP 00 IEC529, EN60529
II / 2
IEC 664-1
LED (solo su IF416LS7)
flat cable 16 poles male and 2.5 mm ² fixed screw ty ^o e
polyamide UL94V-0
_
_

PR/3/AC, PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL — — —



PLC S7 300 & S7 400 **Interface modules**

- Very compact dimension in CR version
- Fast connection
- Pluggable relay
- Status LED display



A = 22.5 mm (0.88 in) CR version, 35 mm (1.38 in) CRE version

(3.66 in) 137 (5.40 in) 75 (2.96 in)

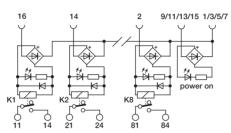
 ϵ Item available until sell-out will be replaced by XR081E24

NOTES

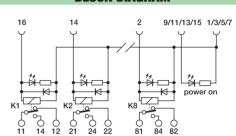
(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

(2) Version available upon request

BLOCK DIAGRAM



BLOCK DIAGRAM



	_	 -	_	
Pluggable rela	y			

Fixed relay

Rated voltage Rated current (1 channel) Turn ON time Turn OFF time

Cat. No. XCRE83 Cat. No. XCR83 CRE8-3 CR8-3

24 Vac/dc ± 10%

Cat. No. XRFE8124	
RFE8124	
	_

INPUT TECHNICAL DATA

VERSIONS

Protection circuit

 $16 \text{ mA} \pm 10\%$ 15 ms 5 ms bridge rectifier

24 Vac/dc \pm 10% $20 \text{ mA} \pm 10\%$ 15 ms 10 ms damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive) Current breaking power Current of the fuse max

SPST(NO) per 8 relay 10 A / 250 Vac 2000 VA

SPDT AgNiO per 8 relé 10 Å / 250 Vac 10 A

GENERAL TECHNICAL DATA

Operating temperature range Coil/contact isolation Isolation between output terminals Protection degree Overvoltage category / Pollution degree Reference Standard Status display Connection terminal Housing material Approx. weight Mounting information

-10...+50°C 3 KVac / 60 s KVac / 60 s (between open contact) IP 20 IEC 529, EN60529 III/2IEC 664-1, DIN VDE 0110.1 green LED / yellow LED flat cable 16 poles male UL94V-0 plastic material 199 g (7.02 oz)

-10...+50°C 2.5 KVac / 60 s 1 KVac / 60 s (between open contact) IP 00 IEC 529, EN60529 III/2 IEC 664-1, DIN VDE 0110.1 green LED / yellow LED flat cable 16 poles male and 2.5 mm² fixed screw ty^e UL94V-0 plastic material 342 g (12.07 oz) vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1) Screw type jumper

red white blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

vertical on rail adjacent without gap

Cat. No. 8904042

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001

PLC S7 300 & S7 400 **Interface modules**

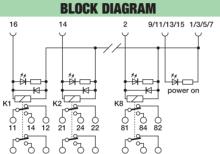
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay
- Fast connection



NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

(2) Version available upon request



VERSIONS

Pluggable relay Fixed relay

INPUT TECHNICAL DATA

Rated voltage Rated current (1 channel) Turn ON time

Turn OFF time Protection circuit

Cat. No. XRFE8224 RFE8224

24 Vdc ± 10% 20 mA ± 10%

15 ms 5 ms

damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive)

Current breaking power Current of the fuse max

DPDT AgNiO per 8 relé

5 A / 250 Vac

5 A

GENERAL TECHNICAL DATA

Operating temperature range

Coil/contact isolation

Isolation between output terminals

Protection degree

Overvoltage category / Pollution degree

Reference Standard

Status display

Connection terminal

Housing material

Approx. weight

Mounting information

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1)

Screw type jumper

red white blue

-10...+50°C 2.5 KVac / 60 s

KVac / 60 s (between open contact)

IP 00 IEC 529, EN60529

III/2

IEC 664-1, DIN VDE 0110.1

green LED / yellow LED

flat cable 16 poles male and 2.5 mm² fixed screw ty^pe

UL94V-0 plastic material

419 g (14.79 oz)

vertical on rail adjacent without gap

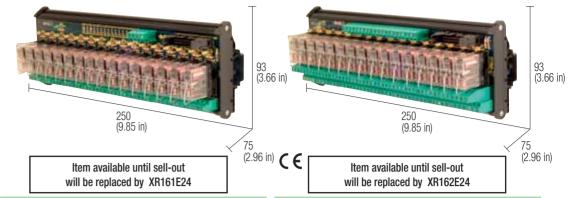
PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904002

127



Telemecanique PLC interface modules

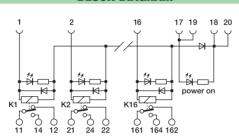
- DC control voltage
- Negative control voltage
- Status LED display
- Pluggable relay
- Fast connection



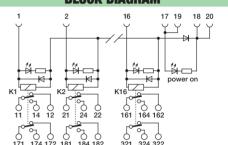
NOTES

(1) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

BLOCK DIAGRAM



BLOCK DIAGRAM



VERSIONS

Pluggable relay Fixed relay

INPUT TECHNICAL DATA

Rated voltage Rated current (1 channel) Turn ON time Turn OFF time Protection circuit

Cat. No. XRFE16124 RFE16124

24 Vdc ± 10% $20 \text{ mA} \pm 10\%$ 15 ms 5 ms

damping & polarity protection diode

Cat. No. XRFE16224 RFE16224

24 Vdc ± 10% $20 \text{ mA} \pm 10\%$ 15 ms

5 ms damping & polarity protection diode

OUTPUT TECHNICAL DATA

Type and number of contacts Nominal load (resistive) Current breaking power Current of the fuse max

SPDT AgNiO per 16 relé 10 A / 250 Vac

10 A

Operating temperature range Coil/contact isolation

-10...+50°C 2.5 KVac / 60 s KVac / 60 s (between open contact)

IEC 664-1, DIN VDE 0110.1

flat cable 16 poles male and 2.5 mm² fixed screw ty^pe

657 g (23.19 oz)

vertical on rail adjacent without gap

DPDT AgNiO per 16 relé 5 Å / 250 Vac

5 A

-10...+50°C

2.5 KVac / 60 s

1 KVac / 60 s (between open contact)

IP 00 IEC 529, EN60529

III/2

GENERAL TECHNICAL DATA

Isolation between output terminals Protection degree Overvoltage category / Pollution degree Reference Standard Status display Connection terminal Housing material Approx. weight Mounting information

IP 00 IEC 529, EN60529 III/2

green LED / yellow LED

UL94V-0 plastic material

IEC 664-1, DIN VDE 0110.1 green LED / yellow LED flat cable 16 poles male and 2.5 mm² fixed screw ty^e UL94V-0 plastic material 811 g (28.63 oz) vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35 Mounting rail type according to IEC60715/G32 Replacement relay (1) Screw type jumper

red white blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904001

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC - PR/DIN/AS - PR/DIN/AL Cat. No. 8904002