

Electrical Sector Solutions  
**D Line Series**

# Start easily, protect precisely



**EATON**

*Powering Business Worldwide*

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## Control relays XTRD



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## Control relays XTRD

1

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## Contactors XTCD

2

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## Thermal overload relays XTOD

3

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## Contactors XTCD



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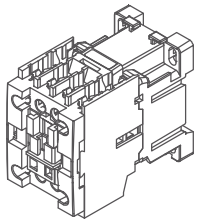
## Thermal overload relays XTOD





The D Line is the newest addition to Eaton's portfolio line of control components. With global ratings and a capacity of up to 85A, D Line is perfect for everyday power control applications. The D Line offers control relays, contactors, starters and thermal overload relays to match any need. Simple, but efficient control for applications including pumps, fans, compressors and more, D Line delivers reliable operation in a compact package.

**Control relays XTRD**



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**Control relays XTRD**

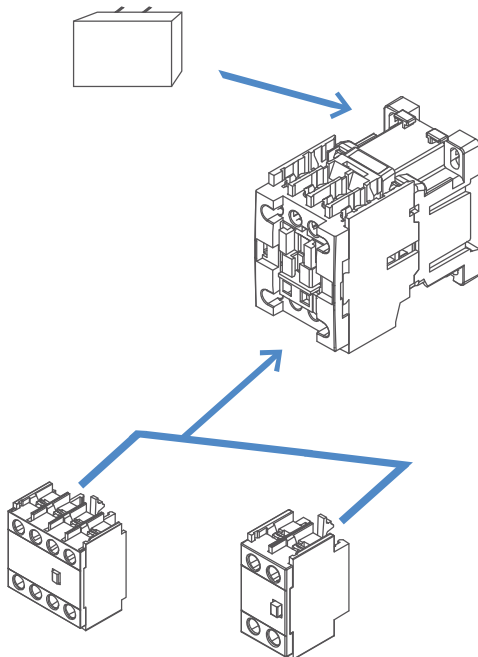
**Product Description**

- Varied 4-pole contact configurations
- Conventional thermal current (Ith) of 10A
- DIN-rail or panel mount

**Standards and Certifications**

- GB 14048
- IEC/EN 60947
- CCC
- CE
- UL/CSA  
(pending for availability)

**System overview**



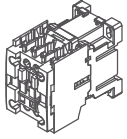
# 1.2

## Control relays XTRD

Basic devices

1

XTRD

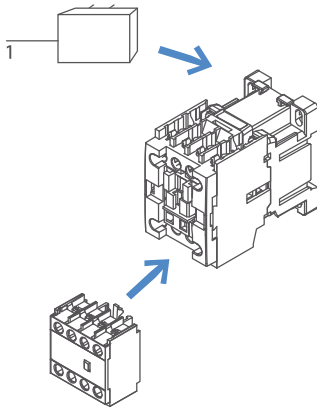


### Control relays

Connection type	Contact		Rated operational current AC-15 /e (A)		Conventional thermal current, open, 55°C /th (A)	Circuit symbol	Can be combined with auxiliary contact module	AC operation	Standard package
	N/O=Normally open	N/C=Normally closed	220V	380 V				Part no.	
								Article no.	
								Actuating voltage	
								220V 50/60HZ	
Screw terminals	4 N/O	-	3	1.9	10		XTCDXSAG11 XTCDXFAG..	<b>XTRD10B40AO</b> 152304	1 piece
Screw terminals	3 N/O	1 N/C	3	1.9	10		XTCDXSAG11 XTCDXFAG..	<b>XTRD10B31AO</b> 152297	1 piece
Screw terminals	2 N/O	2 N/C	3	1.9	10		XTCDXSAG11 XTCDXFAG..	<b>XTRD10B22AO</b> 152290	1 piece
Screw terminals	1 N/O	3 N/C	3	1.9	10		XTCDXSAG11 XTCDXFAG..	<b>XTRD10B13AO</b> 152283	1 piece
Screw terminals	-	4 N/C	3	1.9	10		XTCDXSAG11 XTCDXFAG..	<b>XTRD10B04AO</b> 152736	1 piece

### Notes

With screw terminals














### Accessories

- 1 Suppressor
- 2 Auxiliary contact module
- Actuating voltages

### Page

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- ⇒ 1/4

### Auxiliary contact modules

Connection type	Conventional thermal current open, 55°C	$I_{th} = I_e \text{ AC-1 A}$	Contact		Circuit symbol	Can be combined with control relay	Part no. Article no.	Standard package	
			N/O=Normally open	N/C=Normal closed					
<b>Auxiliary contact, top mounting</b> 	Screw terminals	2 pole	10	2 N/O	-		XTRD10B..	<b>XTCDXFAG20</b> 152430	1 piece
	Screw terminals	2 pole	10	1 N/O	1 N/C		XTRD10B..	<b>XTCDXFAG11</b> 152431	1 piece
	Screw terminals	2 pole	10	-	2 N/C		XTRD10B..	<b>XTCDXFAG02</b> 152432	1 piece
	Screw terminals	4 pole	10	4 N/O	-		XTRD10B..	<b>XTCDXFAG40</b> 152433	1 piece
	Screw terminals	4 pole	10	3 N/O	1 N/C		XTRD10B..	<b>XTCDXFAG31</b> 152434	1 piece
	Screw terminals	4 pole	10	2 N/O	2 N/C		XTRD10B..	<b>XTCDXFAG22</b> 152435	1 piece
	Screw terminals	4 pole	10	1 N/O	3 N/C		XTRD10B..	<b>XTCDXFAG13</b> 152436	1 piece
<b>Auxiliary contact, side mounting</b> 	Screw terminals	4 pole	10	-	4 N/C		XTRD10B..	<b>XTCDXFAG04</b> 152437	1 piece
	Screw terminals	2 pole	10	1 N/O	1 N/C		XTRD10B..	<b>XTCDXSAG11</b> 152438	1 piece

### Actuating voltages AC

Standard coil 50/60Hz	Coil Suffix	XTRD10B40.. Article no. <sup>1)</sup>	XTRD10B31.. Article no. <sup>1)</sup>	XTRD10B22.. Article no. <sup>1)</sup>	XTRD10B13.. Article no. <sup>1)</sup>	XTRD10B04.. Article no. <sup>1)</sup>
24V	<b>B2</b>	152306	152299	152292	152285	151738
48V	<b>C2</b>	152307	152300	152293	152286	151739
110V	<b>E2</b>	152309	152302	152295	152288	152281
220V	<b>A0</b>	152304	152297	152290	152283	151736
240V	<b>H2</b>	152310	152303	152296	152289	152282
380V	<b>AR</b>	152305	152298	152291	152291	151737
440V	<b>D0</b>	152308	152301	152294	152287	152280

<sup>1)</sup>The full part no. consists of basic type and coil suffix.

# 1.4

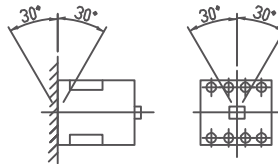
## Control relays XTRD

Technical data

1

### General

			XTRD	XTCDXFAG	XTCDXSAG
Standards	IEC/EN 60947, GB 14048				
<b>Mechanical lifespan</b>					
AC operated	Operations	x 10 <sup>6</sup>	5	5	5
<b>Maximum operating frequency</b>					
Maximum operating frequency	Operations/h		1200	1200	1200
Climatic proofing					
Damp heat, constant, to IEC 60068-2-78					
Damp heat, cyclic, to IEC 60068-2-30					
<b>Ambient temperature</b>					
Operation		°C	-20~55	-20~55	-20~55
Storage		°C	-40~80	-40~80	-40~80
Mounting position					
Have the angle of ±30° with normal vertical installation plane					



Protection type			IP20	IP20	IP20
Weight Approximate weight		kg	0.3	0.3	0.3
<b>Terminal capacity</b>					
Solid		mm <sup>2</sup>	1 x (1-6) 2 x (1-6)	1 x (1-6) 2 x (1-6)	1 x (1-6) 2 x (1-6)
Flexible with ferrule		mm <sup>2</sup>	1 x (1-4) 2 x (1-4)	1 x (1-4) 2 x (1-4)	1 x (1-4) 2 x (1-4)
Solid or stranded		AWG			
Terminal screw			M3,5	M3,5	M3,5
Max tightening torque		Nm	0.8	0.8	0.8

### Contacts

Rated impulse withstand voltage	$U_{imp}$	VAC	6000	6000	6000
Overvoltage category/degree of pollution					
			III/3	III/3	III/3
Rated insulation voltage AC	$U_i$	VAC	1000	690	690
Rated operational voltage	$U_e$	VAC	690	600	600
Rated operational current					
<b>AC-15</b>					
120V	$I_e$	A	6	6	6
220/240V	$I_e$	A	3	3	3
380V	$I_e$	A	1.9	1.9	1.9
480V	$I_e$	A	1.5	1.5	1.5
500V	$I_e$	A	1.4	1.4	1.4
600V	$I_e$	A	1.2	1.2	1.2
<b>DC-13</b>					
125V	$I_e$	A	0.55	0.55	0.55
250V	$I_e$	A	0.27	0.27	0.27
Conventional thermal current	$I_{th}$	A	10	10	10
<b>Electrical lifespan</b>					
at $U_e=230V$ , AC-15, 3A	Operations	x 10 <sup>6</sup>	1	1	1

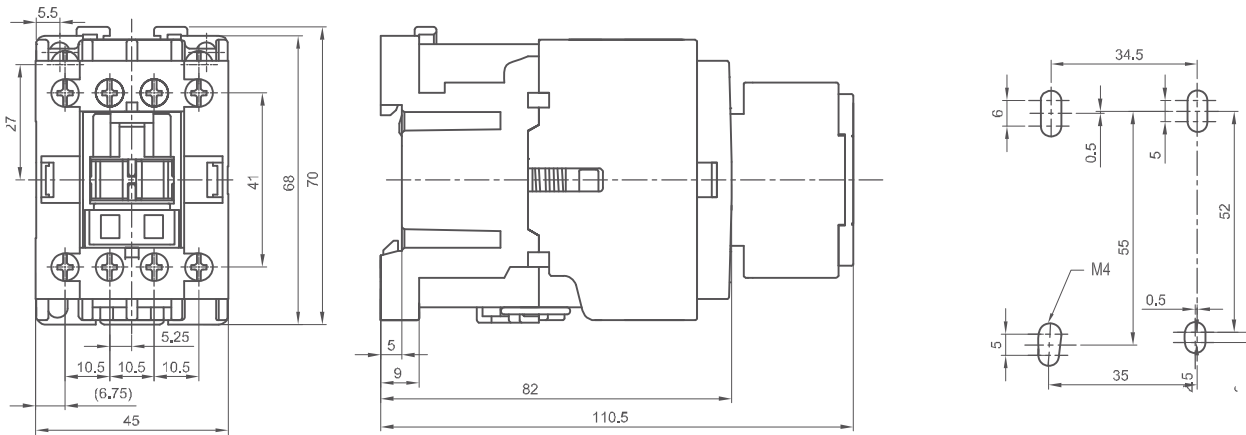
**Magnet system**

			XTRD	XTCDXFAG	XTCDXSAG
Voltage tolerance					
AC operated	Pick-up	$x U_c$	0.75-1.1	0.75-1.1	0.75-1.1
<b>Power consumption</b>	Pick-up	VA	70	70	70
	Sealing	VA	12	12	12
	Sealing	W	3.5	3.5	3.5
Duty factor		% DF	40	40	40

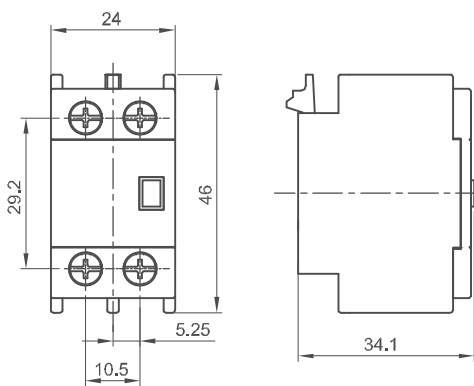
**Dimensions**

Control relay (with XTCDXFAG)

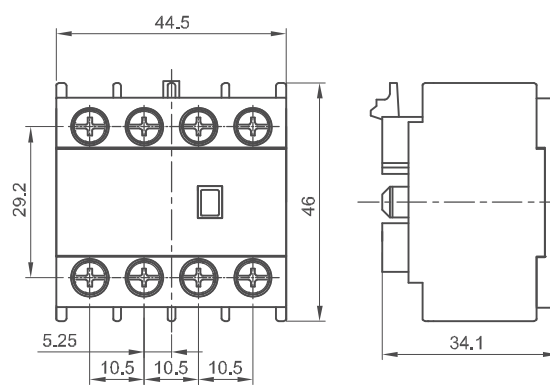
**XTRD10B**



Auxiliary contact module, top mousing  
**XTCDXFAG(2P)**

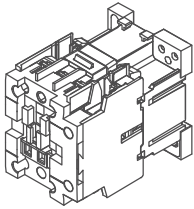


Auxiliary contact module, top mousing  
**XTCDXFAG(4P)**





## Contactors XTCD



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## Contactors XTCD

### Product Description

- 6 frame sizes with current ranges from 7-85A@ AC-3,400V
- Built-in auxiliary contacts on all frames
- Add-on auxiliary contacts for all frames
- Wide range of control voltages from 24-440V in dual frequency 50/60Hz
- Wide selection of accessories for all frames

### Standards and Certifications

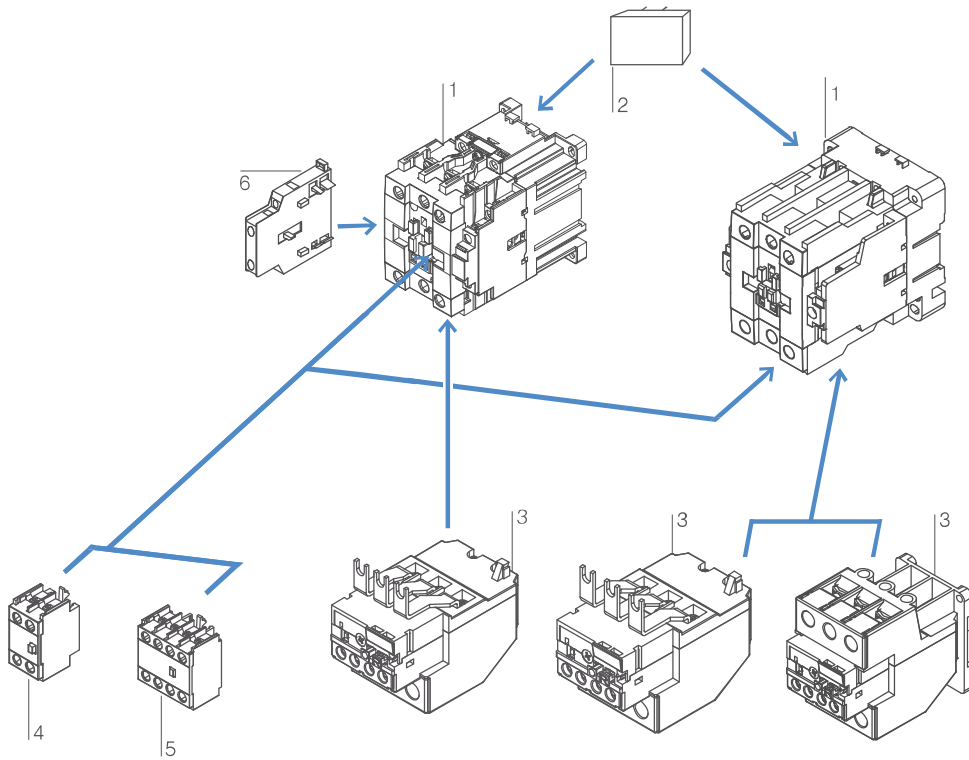
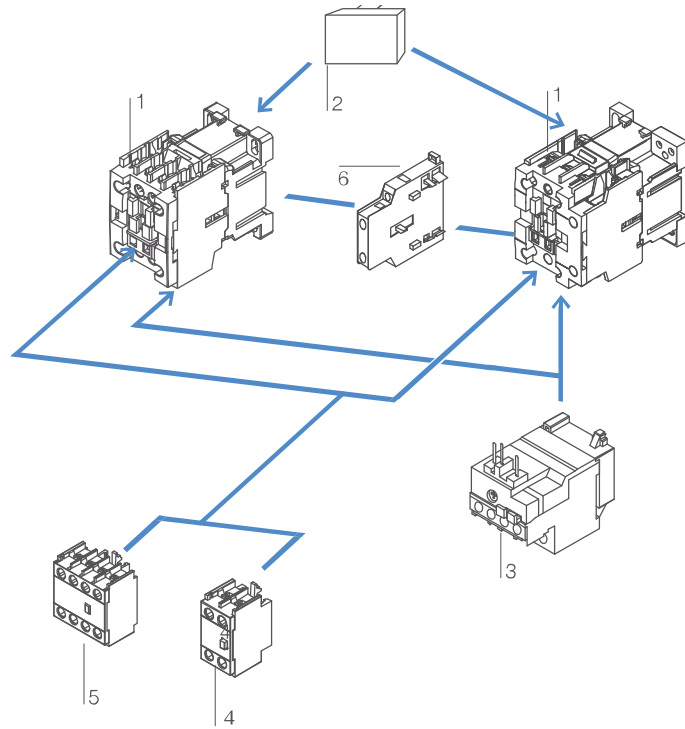
- GB 14048
- IEC/EN 60947
- CCC
- CE
- UL/CSA  
(pending for availability)

# 2.1

## Contactor XTCD System overview

### System overview

2



**System overview**

<b>Contactor, to 45kW (AC-3/400V)</b>	1	<b>Thermal overload relay</b>	3	<b>Auxiliary contact module</b>	5
Magnet system :		Direct mounting		4 pole, top mounting	
AC: 24V, 48V, 110V, 220V, 240V, 380V, 440V		Separate mounting			
		→ 3/1		→ 2/6	
→ 2/4					
<b>Surge suppressor</b>	2	<b>Auxiliary contact module</b>	4	<b>Auxiliary contact module</b>	6
RC suppressor		2 pole, top mounting		2 pole, side mounting	
Variastor suppressor					
		→ 2/6		→ 2/6	
→ 2/8					

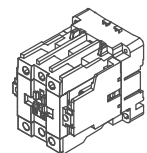
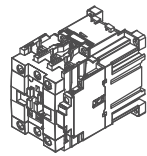
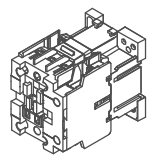
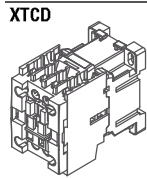
# 2.2

## Contactors XTCD

Basic devices

2

### 3-pole contactors

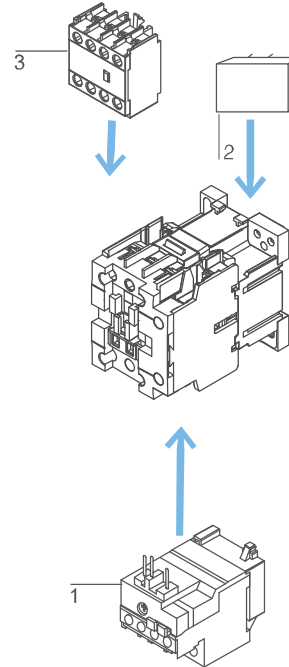


Can be combined with auxiliary contact module	Connection type	Rated operational current AC-3 $I_e$ (A)		Max motor rating for 3-phase motors, 50-60Hz AC-3 P kW			Conventional thermal current, open, 55 °C $I_{th} = I_e$ AC-1(A)	Contact		Circuit symbol	AC operation Part no. Article no. Actuating voltage 220V 50/60Hz
		380V	400V	220V 230V	380V 400V	660V 690V		N/O=Normally open	N/C=Normal closed		
XTCDXFAG20	Screw terminals	7		2.2	3	3.5	25	1 N/O	-		<b>XTCD007B10AO</b> 152318
XTCDXFAG11	Screw terminals	7		2.2	3	3.5	25		1 N/C		<b>XTCD007B01AO</b> 152311
XTCDXFAG02	Screw terminals	9		2.5	4	4.5	25	1 N/O	-		<b>XTCD009B10AO</b> 152332
XTCDXFAG40	Screw terminals	9		2.5	4	4.5	25		1 N/C		<b>XTCD009B01AO</b> 152325
XTCDXFAG31	Screw terminals	12		3	5.5	5.5	25	1 N/O	-		<b>XTCD012B10AO</b> 152346
XTCDXFAG22	Screw terminals	12		3	5.5	5.5	25		1 N/C		<b>XTCD012B01AO</b> 152339
XTCDXFAG13	Screw terminals	16		4	7.5	7.5	25	1 N/O	-		<b>XTCD016B10AO</b> 152360
XTCDXFAG04	Screw terminals	16		4	7.5	7.5	25		1 N/C		<b>XTCD016B01AO</b> 152353
XTCDXSAG11	Screw terminals	22		5.5	11	11	32	1 N/O	1 N/C		<b>XTCD022C11AO</b> 152367
	Screw terminals	26		7.5	11	11	35	1 N/O	1 N/C		<b>XTCD026C11AO</b> 152374
	Screw terminals	32		7.5	15	18.5	50	1 N/O	1 N/C		<b>XTCD032D11AO</b> 152381
	Screw terminals	38		11	18.5	22	60	1 N/O	1 N/C		<b>XTCD038E11AO</b> 152388
	Screw terminals	40		11	20	22	60	1 N/O	1 N/C		<b>XTCD040F11AO</b> 152395
	Screw terminals	55		15	25	30	70	2 N/O	2 N/C		<b>XTCD055G22AO</b> 152402
	Screw terminals	64		18.5	30	37	80	2 N/O	2 N/C		<b>XTCD065G22AO</b> 152409
	Screw terminals	72		22	37	45	100	2 N/O	2 N/C		<b>XTCD072G22AO</b> 152416
	Screw terminals	85		25	45	45	135	2 N/O	2 N/C		<b>XTCD085G22AO</b> 152423

Standard package: 1 piece

Can be combined with auxiliary contact module	AC operation Part no. Article no. Actuating voltage 220V 50/60Hz	Standard package
XTCDXFAG20	<b>XTCD007B10A0</b> 152318	1
XTCDXFAG11	<b>XTCD007B01A0</b> 152311	1
XTCDXFAG02	<b>XTCD009B10A0</b> 152332	1
XTCDXFAG40	<b>XTCD009B01A0</b> 152325	1
XTCDXFAG31	<b>XTCD012B10A0</b> 152346	1
XTCDXFAG22	<b>XTCD012B01A0</b> 152339	1
XTCDXFAG13	<b>XTCD016B10A0</b> 152360	1
XTCDXFAG04	<b>XTCD016B01A0</b> 152353	1
XTCDXSAG11	<b>XTCD022C11A0</b> 152367	1
	<b>XTCD026C11A0</b> 152374	1
	<b>XTCD032D11A0</b> 152381	1
	<b>XTCD038E11A0</b> 152388	1
	<b>XTCD040F11A0</b> 152395	1
	<b>XTCD055G22A0</b> 152402	1
	<b>XTCD065G22A0</b> 152409	1
	<b>XTCD072G22A0</b> 152416	1
	<b>XTCD085G22A0</b> 152423	1

Notes



Accessories

- 1 Overload relay → 3/2
- 2 Suppressor → 2/1
- 3 Auxiliary contact module → 2/6
- Actuating voltages → 2/9
- Other accessories → 2/8

# 2.2

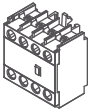
## Contactors XTCD

Basic devices

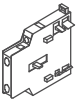
2

### Auxiliary contact modules

Auxiliary contact, top mounting

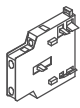


Auxiliary contact, side mounting

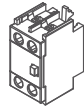


Can be combined with control relay	Connection type		Conventional thermal current, open, 55 °C $I_{th} = I_e \text{ AC-1(A)}$	Contact N/O=Normally open N/C=Normal closed	Circuit symbol	Part no. Article no.	Standard package	
XTCD007 XTCD009	Screw terminals	2 pole	10	2 N/O	-		<b>XTCDXFAG20</b> 152430	1 piece
XTCD012 XTCD016	Screw terminals	2 pole	10	1 N/O	1 N/C		<b>XTCDXFAG11</b> 152431	1 piece
XTCD022 XTCD026	Screw terminals	2 pole	10	-	2 N/C		<b>XTCDXFAG02</b> 152432	1 piece
XTCD032 XTCD038	Screw terminals	4 pole	10	4 N/O	-		<b>XTCDXFAG40</b> 152433	1 piece
XTCD040 XTCD055	Screw terminals	4 pole	10	3 N/O	1 N/C		<b>XTCDXFAG31</b> 152434	1 piece
XTCD065 XTCD072	Screw terminals	4 pole	10	2 N/O	2 N/C		<b>XTCDXFAG22</b> 152435	1 piece
XTCD085	Screw terminals	4 pole	10	1 N/O	3 N/C		<b>XTCDXFAG13</b> 152436	1 piece
	Screw terminals	4 pole	10	-	4 N/C		<b>XTCDXFAG04</b> 152437	1 piece
XTCD007 XTCD009	Screw terminals	2 pole	10	1 N/O	1 N/C		<b>XTCDXSAG11</b> 152438	1 piece
XTCD012 XTCD016								
XTCD022 XTCD026								
XTCD032 XTCD038								
XTCD040								

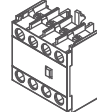
**Auxiliary contact modules**



XTCDXSAG11



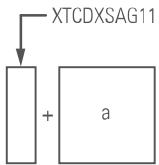
XTCDXFAG20  
XTCDXFAG11  
XTCDXFAG02



XTCDXFAG40  
XTCDXFAG31  
XTCDXFAG22  
XTCDXFAG13  
XTCDXFAG04

XTCD007	1x	-	-
XTCD009	-	1x	-
XTCD012	-	-	-
XTCD016	-	-	1x
XTCD022	-	-	-
XTCD026	-	-	-
XTCD032	-	-	-
XTCD038	-	-	-
XTCD040	-	-	-
XTCD055	-	1x	-
XTCD065	-	-	1x
XTCD072	-	-	-
XTCD085	-	-	-

**Auxiliary contact, side mounting**



a XTCD007 - XTCD040

# 2.3

## Contactors XTCD Accessories

2

### Surge suppressors

#### RC suppressors

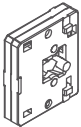
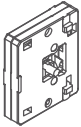


For use with	Voltage V	Circuit symbol	Part no. Article no.	Standard package	Note
XTCD007 XTCD009 XTCD012	24		<b>XTCDXRSGB2</b> 152441	1 piece	Note release delay
XTCD016 XTCD022 XTCD026 XTCD032 XTCD038	48		<b>XTCDXRSGC2</b> 152442	1 piece	Note release delay
XTCD040 XTCD055 XTCD065 XTCD072 XTCD085	110		<b>XTCDXRSGE2</b> 152443	1 piece	Note release delay
	220-240		<b>XTCDXRSGH2</b> 152444	1 piece	Note release delay
	440		<b>XTCDXRSGDQ</b> 152445	1 piece	Note release delay
XTCD007 XTCD009 XTCD012	24		<b>XTCDXVSGB2</b> 152446	1 piece	Note release delay
XTCD016 XTCD022 XTCD026 XTCD032 XTCD038	48		<b>XTCDXVSGC2</b> 152447	1 piece	Note release delay
XTCD040 XTCD055 XTCD065 XTCD072 XTCD085	110		<b>XTCDXVSGE2</b> 152448	1 piece	Note release delay
	220-240		<b>XTCDXVSGH2</b> 152449	1 piece	Note release delay
	440		<b>XTCDXVSGDQ</b> 152450	1 piece	Note release delay

#### Varistor suppressors



### Mechanical interlocks



For use with	Part no. Article no.	Standard package
XTCD007 XTCD009 XTCD012 XTCD016 XTCD022 XTCD026 XTCD032	<b>XTCDXMLD</b> 152439	1 piece
XTCD038 XTCD040 XTCD055 XTCD065 XTCD072 XTCD085	<b>XTCDXMLG</b> 152440	1 piece

### Spare coils

For use with	Part no. Article no.	Standard package
XTCD007 XTCD009 XTCD012 XTCD016 XTCD022 XTCD026 XTCD032	<b>XTCDRENCOILDAO</b> 152451	1 piece
XTCD038	<b>XTCDRENCOILEAO</b> 152458	1 piece
XTCD040	<b>XTCDRENCOILFAO</b> 152465	1 piece
XTCD055 XTCD065 XTCD072 XTCD085	<b>XTCDRENCOILGAO</b> 152472	1 piece



Actuating voltages AC

Standard coil 50/60Hz	Coil Suffix	XTCD007B10.. Article no. <sup>1)</sup>	XTCD007B01.. Article no. <sup>1)</sup>	XTCD009B10.. Article no. <sup>1)</sup>	XTCD009B01.. Article no. <sup>1)</sup>	XTCD012B10.. Article no. <sup>1)</sup>	XTCD012B01.. Article no. <sup>1)</sup>	XTCD016B10.. Article no. <sup>1)</sup>
24V	<b>B2</b>	152320	152313	152334	152327	152348	152341	152362
48V	<b>C2</b>	152321	152314	152335	152328	152349	152342	152363
110V	<b>E2</b>	152323	152316	152337	152330	152351	152344	152365
220V	<b>AO</b>	152318	152311	152332	152325	152346	152339	152360
240V	<b>H2</b>	152324	152317	152338	152331	152352	152345	152366
380V	<b>AR</b>	152319	152312	152333	152326	152347	152340	152361
440V	<b>DQ</b>	152322	152315	152336	152329	152350	152343	152364

Standard coil 50/60Hz	Coil Suffix	XTCD016B01.. Article no. <sup>1)</sup>	XTCD022C11.. Article no. <sup>1)</sup>	XTCD026C11.. Article no. <sup>1)</sup>	XTCD032D11.. Article no. <sup>1)</sup>	XTCD038E11.. Article no. <sup>1)</sup>	XTCD040F11.. Article no. <sup>1)</sup>	XTCD052G22.. Article no. <sup>1)</sup>
24V	<b>B2</b>	152355	152369	152376	152383	152390	152397	152404
48V	<b>C2</b>	152356	152370	152377	152384	152391	152398	152405
110V	<b>E2</b>	152358	152372	152379	152386	152393	152400	152407
220V	<b>AO</b>	152353	152367	152374	152381	152388	152395	152402
240V	<b>H2</b>	152359	152373	152380	152387	152394	152401	152408
380V	<b>AR</b>	152354	152368	152375	152382	152389	152396	152403
440V	<b>DQ</b>	152357	152371	152378	152385	152392	152399	152406

Standard coil 50/60Hz	Coil Suffix	XTCD065G22.. Article no. <sup>1)</sup>	XTCD072G22.. Article no. <sup>1)</sup>	XTCD085G22.. Article no. <sup>1)</sup>
24V	<b>B2</b>	152411	152418	152425
48V	<b>C2</b>	152412	152419	152426
110V	<b>E2</b>	152414	152421	152428
220V	<b>AO</b>	152409	152416	152423
240V	<b>H2</b>	152415	152422	152429
380V	<b>AR</b>	152410	152417	152424
440V	<b>DQ</b>	152413	152420	152427

<sup>1)</sup> The full part no. consists of basic type and coil suffix.

# 2.4

## Contactors XTCD Spare coils

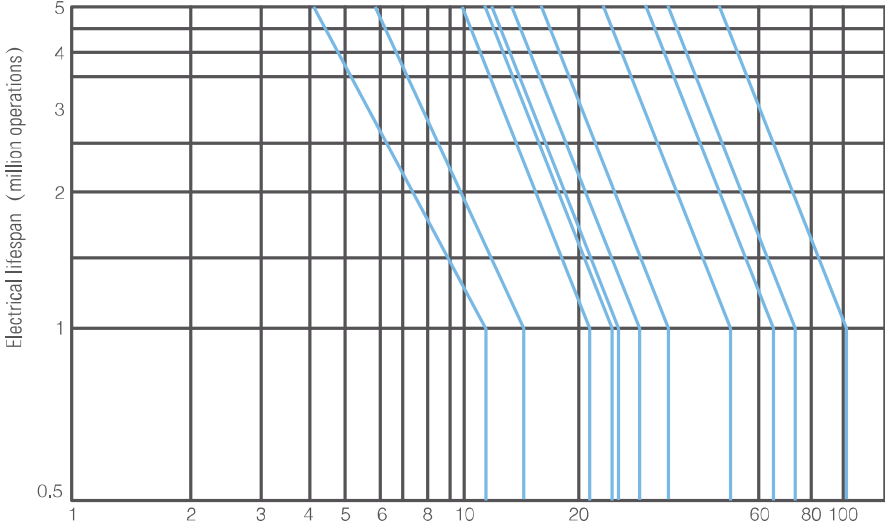
### Spare coils AC

2

Standard coil 50/60Hz	Coil Suffix	<b>XTCDRENCOILD..</b> Article no. <sup>1)</sup>	<b>XTCDRENCOILE..</b> Article no. <sup>1)</sup>	<b>XTCDRENCOILF..</b> Article no. <sup>1)</sup>	<b>XTCDRENCOILG..</b> Article no. <sup>1)</sup>
24V	<b>B2</b>	152453	152460	152467	152474
48V	<b>C2</b>	152454	152461	152468	152475
110V	<b>E2</b>	152456	152463	152470	152477
220V	<b>A0</b>	152451	152458	152465	152472
240V	<b>H2</b>	152457	152464	152471	152478
380V	<b>AR</b>	152452	152459	152466	152473
440V	<b>D0</b>	152455	152462	152469	152476

<sup>1)</sup>The full part no. consists of basic type and coil suffix.

Normal switching duty



Full-load current of motor

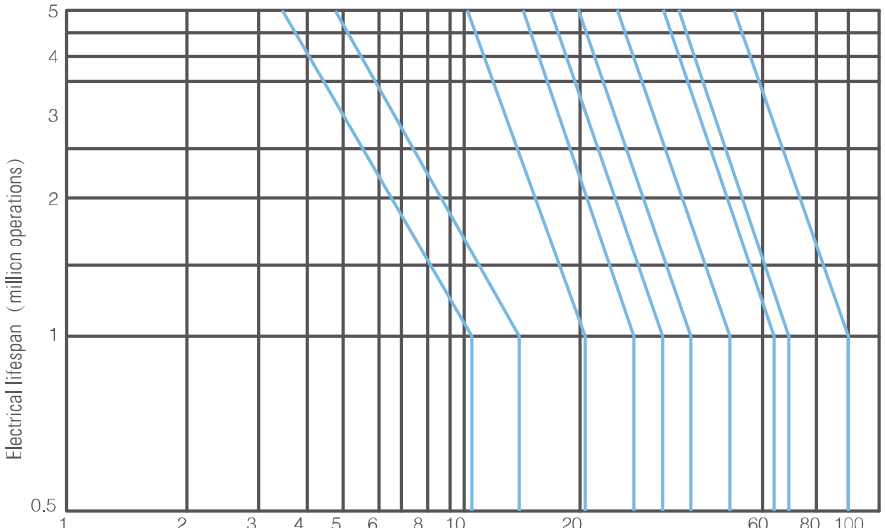
**AC 3 / 220V**

Electrical characteristics

Make: Up to 6X rated current of motor

Break: 1X rated current of motor

- 7.5
  - 10.1
  - 12
  - 16
  - 23
  - 30
  - 32
  - 39
  - 44
  - 55
  - 65
  - 75
  - 105
- XTCD007*  
*XTCD009*  
*XTCD012*  
*XTCD016*  
*XTCD022*  
*XTCD026*  
*XTCD032*  
*XTCD038*  
*XTCD040*  
*XTCD055*  
*XTCD065*  
*XTCD072*  
*XTCD085*



Full-load current of motor

**AC 3 / 220V**

Electrical characteristics

Make: Up to 6X rated current of motor

Break: 1X rated current of motor

- 6
  - 8
  - 11
  - 15
  - 21
  - 32
  - 38
  - 40
  - 52
  - 64
  - 70
  - 100
- XTCD007*  
*XTCD009*  
*XTCD012*  
*XTCD016*  
*XTCD022*  
*XTCD026*  
*XTCD032*  
*XTCD038*  
*XTCD040*  
*XTCD055*  
*XTCD065*  
*XTCD072*  
*XTCD085*

# 2.6

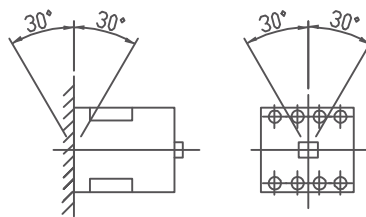
## Contactors XTCD

Technical data

### General

2

XT Basic device			CD007	CD009	CD012	CD016	CD022
Standards			IEC/EN 60947, GB 14048				
<b>Lifespan, mechanical</b>							
AC operated	Operations	$\times 10^6$	5	5	5	5	5
<b>Operating frequency, mechanical</b>							
AC operated	Operations/h		1200	1200	1200	1200	1200
Climatic Proofing			Damp heat, constant, to IEC60068-2-78 Damp heat, cyclic, to IEC60068-2-30				
<b>Ambient temperature</b>							
Operation		°C	-20-55	-20-55	-20-55	-20-55	-20-55
Storage		°C	-40-80	-40-80	-40-80	-40-80	-40-80
Mounting position			Have the angle of $\pm 30^\circ$ with normal vertical installation plane				

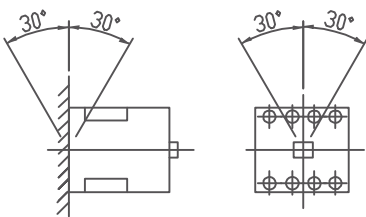


Protection type			IP20	IP20	IP20	IP20	IP20
Weight	kg		0.3	0.3	0.3	0.3	0.4
<b>Terminal capacity of main cable</b>							
Solid	mm <sup>2</sup>		1 x (1,5-6) 2 x (1,5-6)	1 x (1,5-6) 2 x (1,5-6)	1 x (1,5-6) 2 x (1,5-6)	1 x (1,5-6) 2 x (1,5-6)	1 x (2,5-10) 2 x (2,5-10)
Flexible with ferrule	mm <sup>2</sup>		1 x (1,5-4) 2 x (1,5-4)	1 x (1,5-4) 2 x (1,5-4)	1 x (1,5-4) 2 x (1,5-4)	1 x (1,5-4) 2 x (1,5-4)	1 x (2,5-6) 2 x (2,5-6)
Solid/stranded	AWG						
Terminal capacity of control circuit cable	mm <sup>2</sup>		1	1	1	1	1
Main cable connection screws / bolts			M3.5	M3.5	M3.5	M3.5	M4
Tightening torque	Nm		0.8	0.8	0.8	0.8	1.2
Control circuit cable connection screws / bolts			M3.5	M3.5	M3.5	M3.5	M3.5
Tightening torque	Nm		0.8	0.8	0.8	0.8	0.8

### Main contacts

Rated impulse withstand voltage	$U_{imp}$	V AC	6000	6000	6000	6000	6000
Overvoltage category / pollution degree			I/3	III/3	III/3	III/3	III/3
Rated insulation voltage	$U_i$		1000	1000	1000	1000	1000
Rated operational voltage	$U_e$		690	690	690	690	690
Making capacity ( $\cos\phi$ to IEC/EN60947)	A	to 690 V	60	60	60	60	140
<b>Breaking capacity</b> ( $\cos\phi$ to IEC/EN60947)	220V/230V	A	92	92	96	128	184
	380V/400V	A	88	88	96	128	176
	500V	A	64	64	72	104	152
	660V/690V	A	48	48	56	80	112
<b>Electrical lifespan</b>							
	$I_e$ AC-3 400V	$\times 10^6$ Op.	1	1	1	1	1
<b>Maximum operating frequency</b>							
	$I_e$ AC-3 400V	Op./h	1200	1200	1200	1200	1200

CD026	CD032	CD038	CD040	CD055	CD065	CD072	CD085
IEC/EN 60947, GB 14048							
5	5	5	5	5	5	5	5
1200	1200	1200	1200	1200	1200	1200	1200
Damp heat, constant, to IEC60068-2-78 Damp heat, cyclic, to IEC60068-2-30							
-20-55	-20-55	-20-55	-20-55	-20-55	-20-55	-20-55	-20-55
-40-80	-40-80	-40-80	-40-80	-40-80	-40-80	-40-80	-40-80



IP20	IP20	IP20	IP20	IP20	IP20	IP00	IP00
0.4	0.7	0.7	0.9	1.3	1.3	1.3	1.3
1 x (2,5-10) 2 x (2,5-10)	1 x (2,5-16) 2 x (2,5-16)	1 x (2,5-16) 2 x (2,5-16)	1 x (4-16) 2 x (4-16)	1 x (10-50) 2 x (10-50)	1 x (10-50) 2 x (10-50)	1 x (10-50) 2 x (10-50)	1 x (10-50) 2 x (10-50)
1 x (2,5-6) 2 x (2,5-6)	1 x (2,5-10) 2 x (2,5-10)	1 x (2,5-10) 2 x (2,5-10)	1 x (2,5-10) 2 x (2,5-10)	1 x (6-35) 2 x (6-35)	1 x (6-35) 2 x (6-35)	1 x (6-35) 2 x (6-35)	1 x (6-35) 2 x (6-35)
1	1	1	1	1	1	1	1
M4	M5	M5	M5	M6	M6	M6	M6
1.2	2.0	2.0	2.0	3.0	3.0	3.0	3.0
M3.5	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

6000	6000	6000	6000	6000	6000	6000	6000
III/3	III/3	I/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000	1000
690	690	690	690	690	690	690	690
140	220	242	260	350	450	600	650
216	280	312	352	440	520	600	680
208	256	304	320	440	512	576	680
152	140	264	280	360	440	520	640
112	176	176	208	280	360	480	520
1	1	1	1	1	1	1	1
1200	1200	1200	1200	1200	1200	1200	1200

# 2.6

## Contactors XTCD

Technical data

### AC voltage

2

XT Basic device				CD007	CD009	CD012	CD016	CD022
<b>AC-1 operation</b>								
Conventional thermal current, open, 50-60 Hz, 3 pole	at 40 °C	$I_{th}$	A	25	25	25	25	35
	at 50 °C	$I_{th}$	A	25	25	25	25	32
	at 55 °C	$I_{th}$	<b>A</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>32</b>
<b>AC-3 operation</b>								
Rated operational current, open, 50-60 Hz, 3 pole	220/230V	$I_e$	A	7	9	12	16	23
	<b>380/400V</b>	$I_e$	<b>A</b>	<b>7</b>	<b>9</b>	<b>12</b>	<b>16</b>	<b>22</b>
	415V	$I_e$	A	7	9	11	15	21
	440V	$I_e$	A	7	9	11	15	21
	500V	$I_e$	A	7	8	9	13	19
	660/690V	$I_e$	A	4	5	7	10	14
Rated operational power	220/230V	$P$	kW	2.2	2.5	3	4	5.5
	<b>380/400V</b>	<b>P</b>	<b>kW</b>	<b>3</b>	<b>4</b>	<b>5.5</b>	<b>7.5</b>	<b>11</b>
	415V	$P$	kW	3	4	5.5	7.5	11
	440V	$P$	kW	3	4	5.5	7.5	11
	500V	$P$	kW	3	4	5.5	7.5	11
	660/690V	$P$	kW	3.5	4.5	5.5	7.5	11

### Magnet systems

#### Voltage tolerance

AC operated	Pick-up	$x U_c$	0.7-1.1	0.7-1.1	0.7-1.1	0.7-1.1	0.7-1.1
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#### Power consumption of coil in a cold state and $1.0 x U_c$

	Pick-up	VA	70	70	70	70	70
	Sealing	VA	13	12	12	12	12
	Sealing	W	3.5	3.5	3.5	3.5	3.5
Duty factor		%DF	40	40	40	40	40

CD026	CD032	CD038	CD03840	CD055	CD065	CD072	CD085
40	60	60	60	70	80	100	135
35	50	60	60	70	80	100	135
<b>35</b>	<b>50</b>	<b>60</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>100</b>	<b>135</b>
27	32	39	42	55	65	75	85
<b>26</b>	<b>32</b>	<b>38</b>	<b>40</b>	<b>55</b>	<b>64</b>	<b>72</b>	<b>85</b>
21	32	38	40	52	64	72	85
21	32	38	40	52	64	70	85
19	30	33	35	45	55	65	80
14	22	24	26	35	45	60	65
7.5	7.5	11	11	15	18.5	22	25
<b>11</b>	<b>15</b>	<b>18.5</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>37</b>	<b>45</b>
11	15	22	22	25	33	40	45
11	15	22	22	30	37	40	51
11	18.5	22	22	30	37	45	55
11	18.5	22	22	30	37	45	55

0.7-1.1	0.7-1.1	0.75-1.1	0.75-1.1	0.75-1.1	0.75-1.1	0.75-1.1	0.75-1.1
70	70	215	215	280	280	280	280
12	12	27	27	32	32	32	32
3.5	3.5	6	6	6	6	6	6
40	40	40	40	40	40	40	40

# 2.6

## Contactors XTCD

Technical data of auxiliary contact modules

### Auxiliary contact

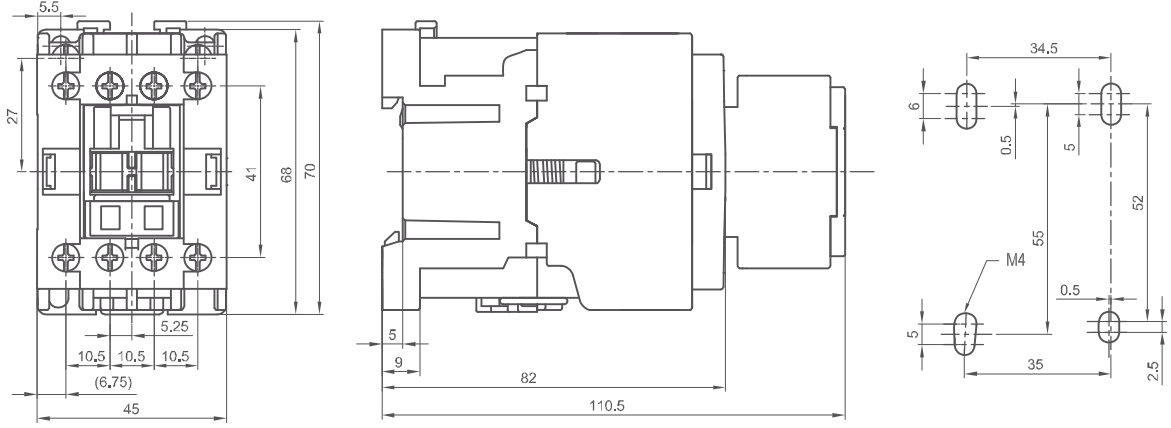
2

			XTCDXFAG	XTCDXSAG
Rated impulse withstand voltage	$U_{imp}$	VAC	6000	6000
Overvoltage category/degree of pollution			III/3	III/3
Rated insulation voltage	$U_i$	VAC	690	690
Rated operational voltage	$U_e$	VAC	600	600
Rated operational current				
<b>AC-15</b>				
120V	$I_e$	A	6	6
220/240V	$I_e$	A	3	3
380V	$I_e$	A	1.9	1.9
480V	$I_e$	A	1.5	1.5
500V	$I_e$	A	1.4	1.4
600V	$I_e$	A	1.2	1.2
<b>DC-13</b>				
125V	$I_e$	A	0.55	0.55
250V	$I_e$	A	0.27	0.27
Conventional thermal current	$I_{th}$	A	10	10
<b>Electrical lifespan</b>				
at $U_e=230V$ , AC-15, 3A	Operations	$\times 10^6$	1	1

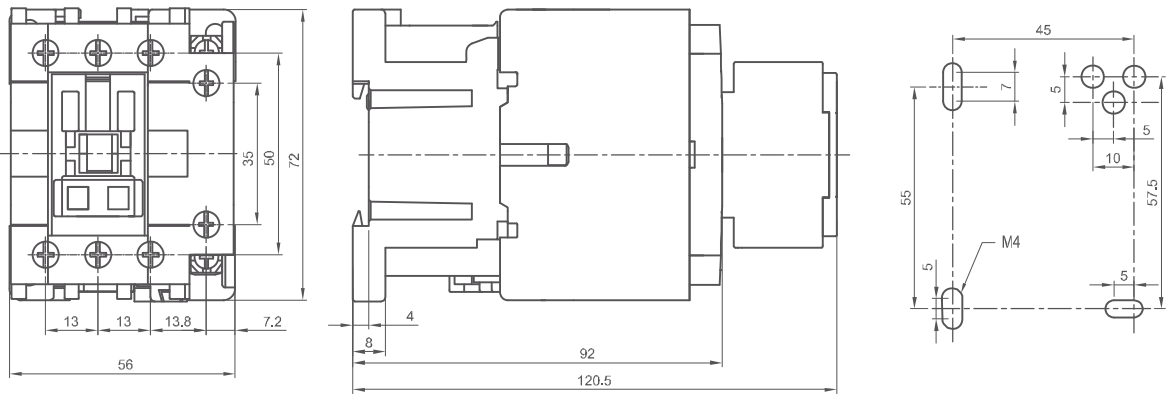


Dimensions

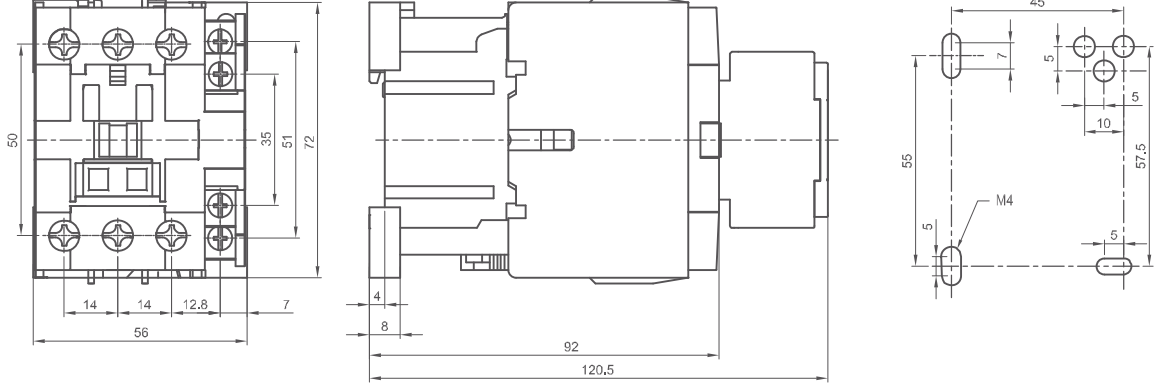
Contactor ( with XTCDXFAG )  
XTCD007B  
XTCD009B  
XTCD012B  
XTCD016B



XTCD022C  
XTCD026C



XTCD032D

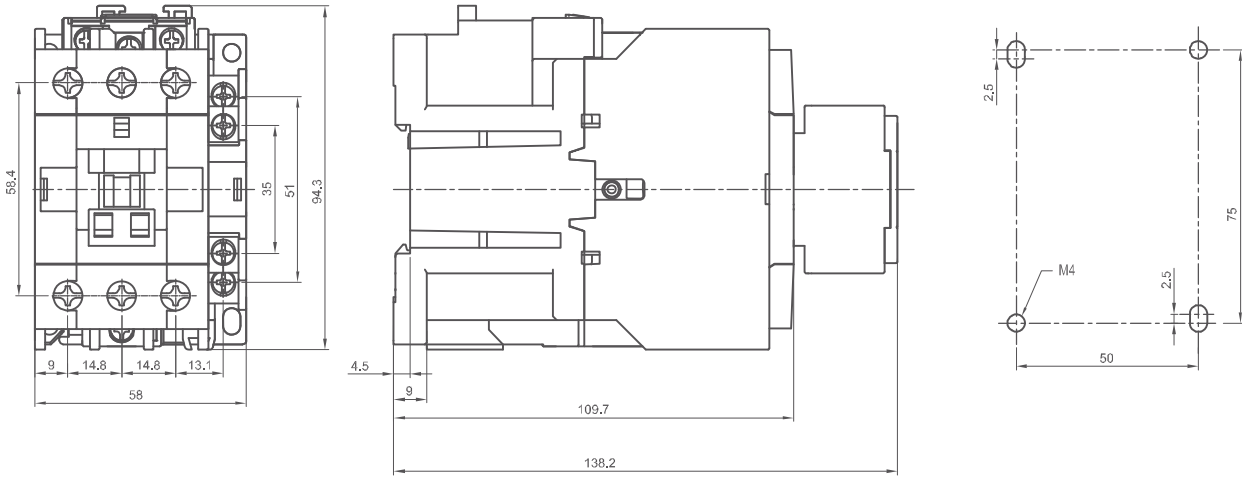


# 2.7 Contactors XTCD

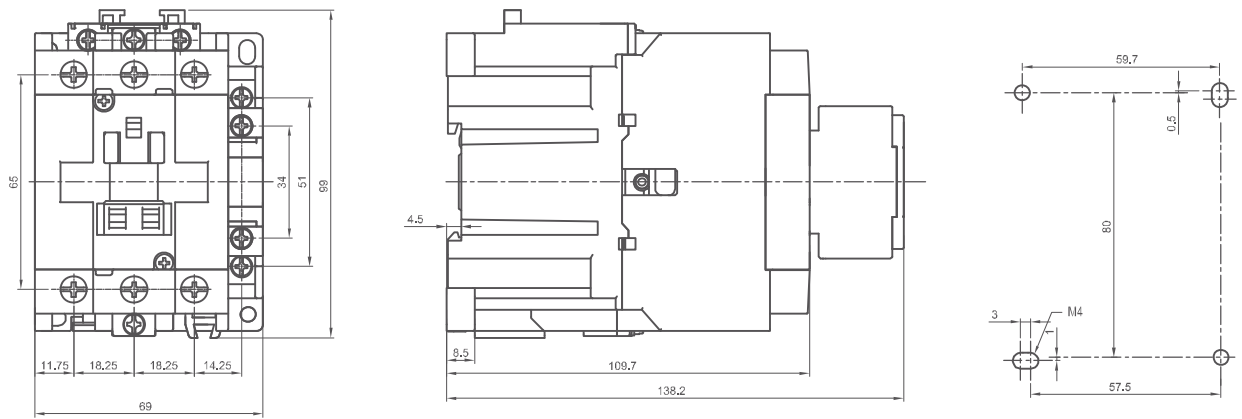
## Dimensions

### Dimensions

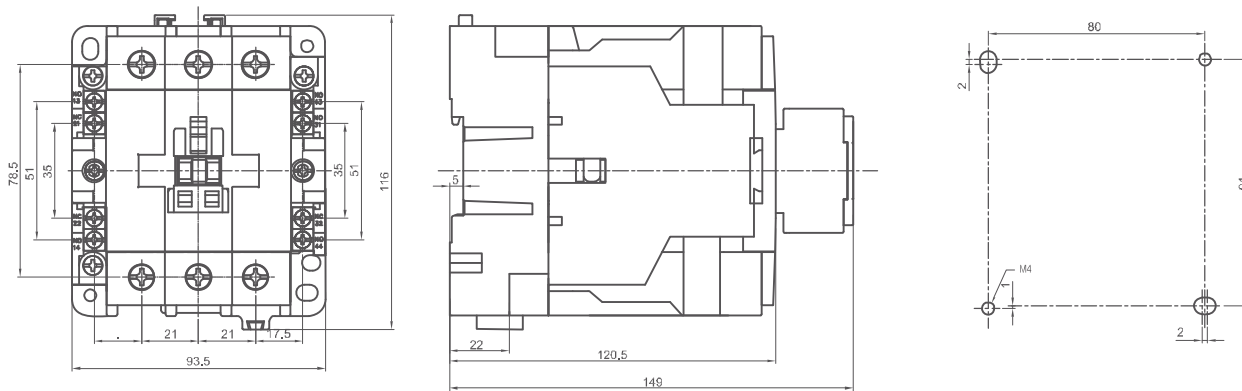
XTCD038E



XTCD040F



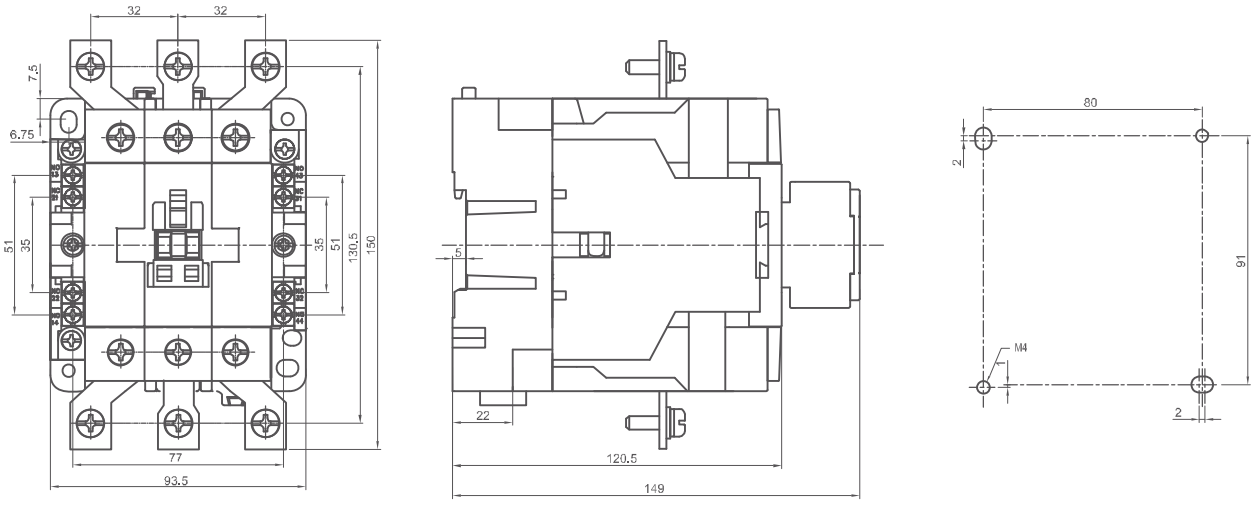
XTCD055G  
XTCD055G



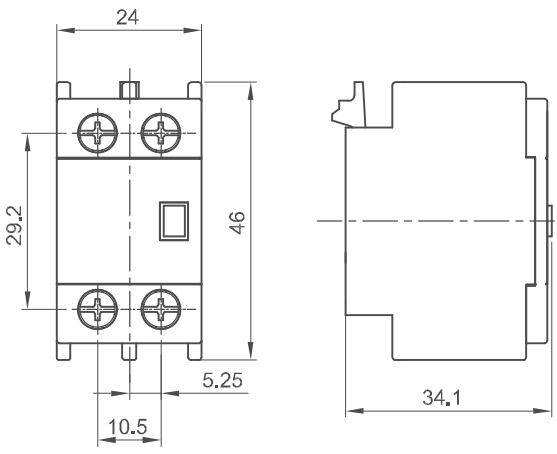
Dimensions

XTCD072G  
XTCD085G

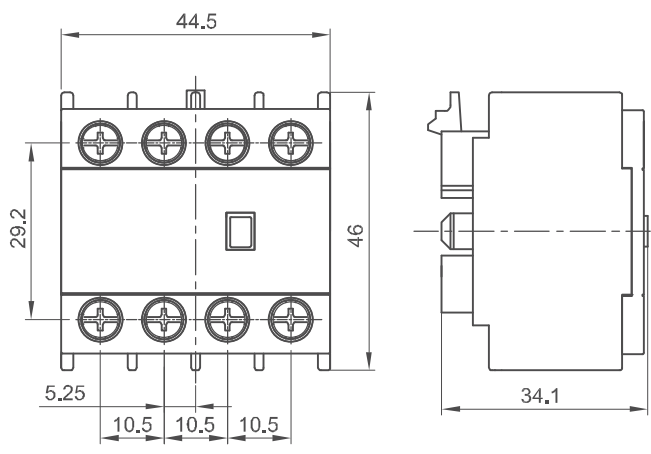
2



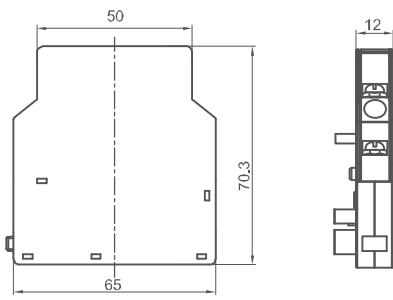
Auxiliary contact module , top mounting  
XTCDXFAG(2P)



Auxiliary contact module , top mounting  
XTCDXFAG(4P)



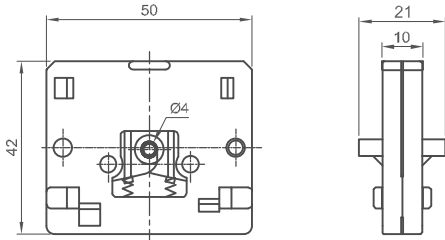
Auxiliary contact module, side mounting  
XTCDXSAG



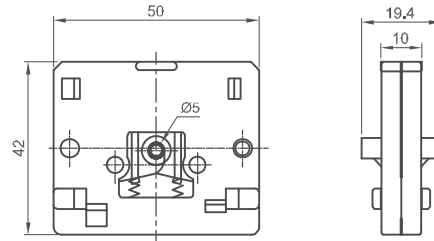
# 2.7 •XTCD Dimension

## Mechanical interlock XTCDXMLD

2



## Mechanical interlock XTCDXMLG



## Suppressor XTCDXVSG XTCDXVRG

