Electrical sector solutions E Line family

Industry leading design in a compact package









There's a certain energy at Eaton. It's the power of uniting some of the world's most respected names to build a brand you can trust to meet every power management need. The energy created supports our commitment to powering business worldwide.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges. **Eaton.com/Electrical.**

Control relays XTRG



Control relays XTRG		

Contactors XTCG

Thermal overload relays XTOD

imensional Data 4

Contactors XTCG



General overview

Eaton's new E Line contactor is powerful, yet compact and is a marvel of innovation incorporating Eaton's vast experience in motor controls. In 1900, Eaton developed the world's first automatic motor starter and over the years, Eaton continued this heritage of innovation launching many industry firsts including the first motor circuit protector and the first microprocessor based contactor. E Line is the world's smallest and most efficient IEC contactor, allowing OEMs and designers to reduce panel size and reduce the impact on the environment.

Bold new design

When Eaton developed the new E Line contactor family, we wanted to make a bold statement. The E Line is not just another contactor, it's a completely new design incorporating the latest principals of arc-science and technology. By starting fresh, our engineering team was able to focus on the things that matter to our customers while challenging design conventions.

Quenching the arc

Extinguishing switching arcs during the operation of a contactor or circuit breaker will extend it's life. Through years of research and advanced simulation techniques, Eaton has mastered this science and uses this knowledge to design reliable and innovative products. The E Line's arc-chamber structure is designed to reduce the impact of switching arcs on the power contacts, yielding a more reliable design.

Thermal overload relays XTOD



E Line motor controls

System overview

Designing reliable contactors

To design a reliable contactor, you not only need to study switching arcs, but you need to study contact behavior.

Controlling the arc at the time of contact closure and ensuring that it doesn't restrike are all important design considerations. Eaton found that the most reliable contactors have limited contact bounce during actuation and high contact force during operation.

Controlled actuation

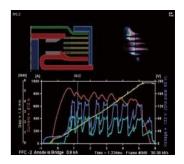
Contact bounce and high mechanical forces are exhibited when a contactor closes. During operation, the contacts crash together and reopen for a fraction of a second. Eaton's engineers have studied this critical point, because it has the most impact on a contactor's life. By reducing contact bounce and reducing the mechanical impact, a designer can extend the life of a contactor without adding additional material or increasing the size. When designing the E Line contactor, our designers focused on limiting contact bounce making it one of the most reliable contactors in the world.

Innovation reduces time to market

The development team for the E Line family used advanced simulation techniques before a regimen of extensive testing to reduce the time to market. While this helped reduced the engineering time required for this project, the simulation techniques helped Eaton deliver a more robust design with a solid foundation. Our engineers identified problems in the lab rather than the field, so you can be assured of trouble free operation.



High speed video of contact bounce



Arc simulation example

The ultimate contactor design

A contactor combining high contact force, with low contact bounce is the ultimate design for reliability and efficiency. The first two frames of the E Line contactor line, available today, are the first in a series aimed at doing just that, an optimized balance that combines advanced science, performance and efficiency in a compact package. Discover how E Line can help improve the reliability and efficiency of your machines today.



Control relays XTRG



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	Auxiliary contact modules
1.3	Technical data
	Control relays XTRG

Control relays XTRG

Product description

Part of the E Line family of controls, the XTRG control relay offers space savings, enhanced reliability and more efficient use of materials. Rated to operate thermal currents up to 10A, AC voltages up to 660V or DC voltages up to 250V, the XTRG contactor relay offers optimum performance in a compact package.

Features

- 10A Control relay
- 690V Insulation rating
- 660VAC or 250VDC Operational voltage
- Up to 5 sets of normally open or normally closed contacts with add-on blocks
- All common AC control voltages
- DIN rail or panel mount options
- Unique 27mm design

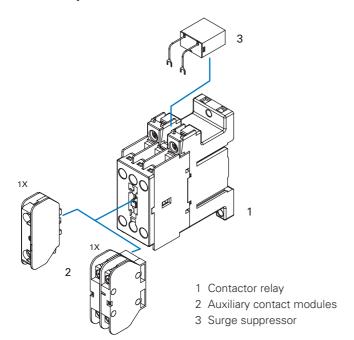
System overview

Control relays are used to remotely switch small loads or in complex control schemes. The XTRG relay can be integrated with contactors from the E Line ramily of motor controls to create compact, efficient control panels for a multitude of applications.

Standards and certifications

- GB 14048
- IEC/EN 60947
- CCC
- CE

Accessory overview



XTRG



Control relays

Connection type	Contact N/O=Normally open		Rated operational current AC-15 _e (A)		Conventional Circuit thermal symbol current,	Circuit Can be symbol combined with auxiliary contact	AC operation Part no. Article no.	Standard package	
	N/C=Nor	mally closed	220V 230V 240V	380 V 400 V 415 V	open, 40°C I _{th} (A)		module	Actuating voltage 220V 50HZ	
Screw terminals	3 N/O	-	4	1.9	10	A1 13 23 33 A2 14 24 34	XTCGXFAC10 XTCGXFAC	XTRG10B30DT 168044	1 piece
Screw terminals	2 N/O	1 N/C	4	1.9	10	A1 13 21 33 A2 14 22 34	XTCGXFAC10 XTCGXFAC	XTRG10B21DT 167927	1 piece
Screw terminals	1 N/0	2 N/C	4	1.9	10	A1 L11 L23 L31 A2 L12 L24 L32	XTCGXFAC10 XTCGXFAC	XTRG10B12DT 167968	1 piece
Screw terminals	-	3 N/C	4	1.9	10	A1 11 21 31 A2 12 22 32	XTCGXFAC10 XTCGXFAC	XTRG10B03DT 167978	1 piece

Alternate actuating voltages

Coil Voltage	3NO	2NO/1NC	1NO/2NC	3NC
24VAC 50Hz	XTRG10B30B5	XTRG10B21B5	XTRG10B12B5	XTRG10B03B5
	168040	167923	167933	167974
36VAC 50Hz	XTRG10B30DS	XTRG10B21DS	XTRG10B12DS	XTRG10B03DS
	168041	167924	167934	167975
48VAC 50Hz	XTRG10B30C5 168042	XTRG10B21C5 167925	XTRG10B12C5 167966	XTRG10B03C5 167976
110VAC 50Hz	XTRG10B30E5 168043	XTRG10B21E5 167926	XTRG10B12E5 167967	XTRG10B03E5 167977
220VAC 50Hz	XTRG10B30DT 168044	XTRG10B21DT 167927	XTRG10B12DT 167968	XTRG10B03DT 167978
380VAC 50Hz	XTRG10B30DU 168047	XTRG10B21DU 167930	XTRG10B12DU 167971	XTRG10B03DU 167936

Auxiliary contact, top mounting





Auxiliary contact modules

Connection type	1	Conventional thermal current open, 40°C I _{th} = I _e AC-1 A	Contact N/O=Norn N/C=Norn		Circuit symbol	Can be combined with control relay	Part no. Article no.	Standard package
Screw terminals	1 pole	10	1 N/0	-	13	XTRG10B	XTCGXFAC10 167939	1 piece
Screw terminals	1 pole	10	-	1 N/C	- 1	XTRG10B	XTCGXFAC01 167940	1 piece
Screw terminals	2 pole	10	2 N/0	-	1 ⁵³ 1 ⁶³ 1 ₅₄ 1 ₆₄	XTRG10B	XTCGXFAC20 167941	1 piece
Screw terminals	2 pole	10	1 N/0	1 N/C	-1-1 53 -2 54	XTRG10B	XTCGXFAC11 168042	1 piece
Screw terminals	2 pole	10	-	2 N/C	51 61 52 62	XTRG10B	XTCGXFAC02 167943	1 piece

Coil surge supressor

Coil voltage	RC	Varistor
24-48V	XTCGXRSCN2	XTCGXVSCN2
	167946	167949
110-220V	XTCGXRSCDV	XTCGXVSCDV
	167947	167950
380-440V	XTCGXRSCCM	XTCGXVSCCM
	167948	167951

General			XTRG10B	XTCGXFAC
Standards			IEC/EN 60947, GB 1	4048
Mechanical lifespan				
AC operated	Operations	x 10 ⁶	10	10
Maximum operating frequency				
Maximum operating frequency	Operations/h		600	600
Climatic proofing			Damp heat, constar Damp heat, cyclic, 1	nt, to IEC 60068-2-78 to IEC 60068-2-30
Ambient temperature				
Operation		°C	-5~40	-5~40
Storage		°C	-25~55	-25~55
Protection type			IP20	IP20
Weight approximate weight		kg	0.17	0.02
Contacts			XTRG10B	XTCGXFAC
Rated impulse withstand voltage	U_{imp}	VAC	6000	6000
Overvoltage category/degree of pollution			III/3	III/3
Rated insulation voltage	Ui	VAC	690	690
Rated operational voltage	U _e	VAC	660	660
Rated operational current				
AC-15				
120V	le	Α	6	6
240V	le	А	4	4
380V	le	А	1.9	1.9
480V	le	А	1.5	
500V	l _e	А	1.4	
600V	l _e	А	1.2	
DC-13				
125V	le	Α	0.55	0.55
250V	le	А	0.27	0.27
Conventional thermal current	I _{th}	А	10	10
Electrical lifespan				
at U _e =230V, AC-15, 3A	Operations	x 10 ⁶	1	1

Ma	an	et	SV	STA	m

Magnet system			XTRG10B
Voltage tolerance			
AC operated	Pick-up	x U _C	0.85-1.1
Power consumption	Pick-up	VA	30
	Sealing	VA	6
	Sealing	W	2
Duty factor		% DF	40

Terminals





XTCGXFAC..

A1 / A2 / Aux

mm ²	Nm
0.75-2.5	0.8

Contactors XTCG



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Contactors XTCG

Product description

The XTCG is the flagship of the E Line family of motor controls. The XTCG contactor offers space savings, enhanced reliability and more efficient use of materials. Boasting AC-3 ratings up to 32A @ 400V and with a maximum operating voltage of 660V, XTCG offers tremendous performance in a small package.

Features

- Technologically advanced contact design
- 690V insulation rating
- Operating voltage up to 660VAC
- Up to (3) add on auxiliary contact modules
- All common AC control voltagesDIN rail or panel mount
- optionsUnique space saving design

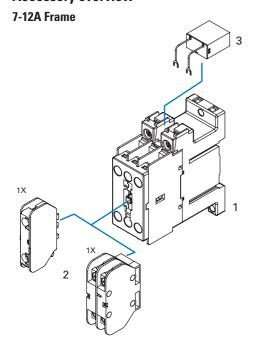
System overview

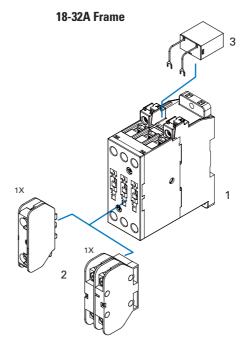
3 phase contactors are used to start motors or control industrial loads. The E Line family of contactors allows the starting of motors up to 15kW, and when combined with an XTOD overload relay or PKZC motor protective circuit breaker offers a complete package of protection and control for long life and reliable operation.

Standards and certifications

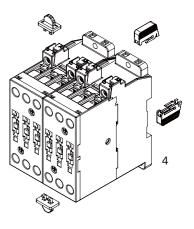
- GB 14048
- IEC/EN 60947
- CCC
- CE

Accessory overview





18-32A Frame with mechanical interlock



- 1 Contactor relay
- 2 Auxiliary contact modules
- 3 Surge suppressor
- 4 Interlocking kit

XTCG



3-pole contactors

Connection type	Rated operational current	Max motor rating for 3-phase motors, 50-60Hz AC-3 P kW		Conventional thermal current, open, 40 °C	Circuit symbol	AC operation Part no. Article no.		
	AC-3 I _e (A) 380V	220V	380V	660V	$I_{th} = I_e AC-1(A)$		Actuating voltage 220V 50Hz	
Screw terminals	7	2.2	3	3.5	20	A1 1 3 5 A2 2 4 6	XTCG007B00DT 167984	
Screw terminals	9	2.5	4	4.5	20	A1 1 3 5 A2 2 4 6	XTCG009B00DT 167994	
Screw terminals	12	3.5	5.5	5.5	20	A1 1 3 5 A2 2 4 6	XTCG012B00DT 168004	
Screw terminals	18	5	7.5	7.5	25	A1 1 3 5 A2 2 4 6	XTCG018C00DT 168014	
Screw terminals	25	7.5	11	11	35	A1 1 3 5 A2 2 4 6	XTCG025C00DT 168024	
Screw terminals	32	10	15	15	40	A1 1 3 5 A2 2 4 6	XTCG032C00DT 168034	

Standard package: 1piece

Alternate actuating voltages

Coil voltage	7A	9A	12A	18A	25A	32A
24VAC 50Hz	XTCG007B00B5 167980	XTCG009B00B5 167990	XTCG012B00B5 168000	XTCG018B00B5 168010	XTCG025B00B5 168020	XTCG032B00B5 168030
36VAC 50Hz	XTCG007B00DS 167981	XTCG009B00DS 167991	XTCG012B00DS 168001	XTCG018B00DS 168011	XTCG025B00DS 168021	XTCG032B00DS 168031
48VAC 50Hz	XTCG007B00C5 167982	XTCG009B00C6 167992	XTCG012B00C7 168002	XTCG018B00C8 168012	XTCG025B00C9 168022	XTCG032B00C10 168032
110VAC 50Hz	XTCG007B00E5 167983	XTCG009B00E6 167993	XTCG012B00E7 168003	XTCG018B00E8 168013	XTCG025B00E9 168023	XTCG032B00E10 168033
220VAC 50Hz	XTCG007B00DT 167984	XTCG009B00DT 167994	XTCG012B00DT 168004	XTCG018B00DT 168014	XTCG025B00DT 168024	XTCG032B00DT 168034
380VAC 50Hz	XTCG007B00DU 167987	XTCG009B00DU 167997	XTCG012B00DU 168007	XTCG018B00DU 168017	XTCG025B00DU 168027	XTCG032B00DU 168037

Auxiliary contact, top mounting





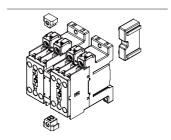
Auxiliary contact modules

Connection type		Conventional thermal current open, 40°C I _{th} = I _e AC-1	Contact N/O=Norn N/C=Norm		Circuit symbol	Can be combined with control relay	Part no. Article no.	Standard package
		A						
Screw terminals	1 pole	10	1 N/0	-	1	XTCG10B	XTCGXFAC10 167939	1 piece
Screw terminals	1 pole	10	-	1 N/C	- 	XTCG10B	XTCGXFAC01 167940	1 piece
Screw terminals	2 pole	10	2 N/0	-	1 ⁵³ 1 ⁶³ 1 ₅₄ 1 ₆₄	XTCG10B	XTCGXFAC20 167941	1 piece
Screw terminals	2 pole	10	1 N/0	1 N/C		XTCG10B	XTCGXFAC11 168042	1 piece
Screw terminals	2 pole	10	-	2 N/C	51 61 	XTCG10B	XTCGXFAC02 167943	1 piece

Coil surge supressor



Coil voltage	RC	Varistor
24-48V	XTCGXRSCN2	XTCGXVSCN2
	167946	167949
110-220V	XTCGXRSCDV	XTCGXVSCDV
	167947	167950
380-440V	XTCGXRSCCM	XTCGXVSCCM
	167948	167951



Mechanical interlock

7-12A	18-32A
XTCGXMLB 167944	XTCGXMLC 167945

General x	T Basic devi	ce		CG007	CG009	CG012	CG018	CG025	CG032
Standards			IEC/EN 60947,	GB 14048					
Lifespan, mechani	cal								
AC operated 0	perations		x 10 ⁶	10	10	10	10	10	10
Operating frequen									
AC operated 0	perations/h			600	600	600	600	600	600
Climatic Proofing				Damp heat,cor Damp heat,cyc	nstant,to IEC60068-2 clic,to IEC60068-2-30	?-78)			
Ambient temperat	ure								
Operation			°C	-5~40	-5~40	-5~40	-5~40	-5~40	-5~40
Storage			°C	-25~55	-25~55	-25~55	-25~55	-25~55	-25~55
Protection type				IP20	IP20	IP20	IP20	IP20	IP20
Weight			kg	0.17	0.17	0.17	0.35	0.35	0.35
Terminal capacity	of main ca	able							
Solid/stranded			AWG						
Terminal capacity of control	circuit cable		mm²	0.75-2.5	0.75-2.5	0.75-2.5	0.75-2.5	0.75-2.5	0.75-2.5
Main cable connection screws	/ bolts			M3.5	M3.5	M3.5	M5	M5	M5
Tightening torque			Nm	0.8	0.8	0.8	2	2	2
Control circuit cable connection	screws / bolts			M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
Tightening torque N			Nm	0.8	0.8	0.8	0.8	0.8	0.8
Main contacts									
Rated impulse withstand	l voltage	U_{imp}	V AC	6000	6000	6000	6000	6000	6000
Overvoltage category / p		•		III/3	III/3	III/3	III/3	III/3	III/3
Rated insulation voltage		Ui	V AC	690	690	690	690	690	690
Rated operational voltag	е	Ue	V AC	660	660	660	660	660	660
Making capacity (cos φ to IEC/EN60947)	380V		А	70	90	120	180	250	320
Breaking capacity (cos φ to IEC/EN60947)	380V		А	56	72	96	144	200	256
Electrical lifespan			, ,		, _		111	200	200
AC-3			Op.	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
AC-4			Ор.	100,000	100,000	100,000	100,000	100,000	100,000
Magnet systems			· · · · · · · · · · · · · · · · · · ·		<u> </u>	<u> </u>	-		<u> </u>
Voltage tolerance AC operated	Pick-up		x U _c	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1
Power consumption	Pick-up		VA	30	30	30	80	80	80
of coil in a cold state and 1.0 xUc	Sealing		VA	6	6	6	8.1	8.1	8.1
State and 1.0 AUC	Sealing		W	2	2	2	2.4	2.4	2.4

Auxiliary contact			XTCGXFAC
Rated impulse withstand voltage	U_{imp}	VAC	6000
Overvoltage category/degree of pollu	ition		III/3
Rated insulation voltage	Ui	VAC	690
Rated operational voltage	Ue	VAC	660
Rated operational current			
AC-15			
120V	l _e	Α	6
240V	l _e	Α	4
380V	le	Α	1.9
DC-13			
125V	le	А	0.55
250V	l _e	Α	0.27
Conventional thermal current	I _{th}	А	10
Electrical lifespan			
at U _e =230V, AC-15, 3A Ope	erations	x 10 ⁶	1

Terminals 7-12A			Nm	Aux Contact mm²	Nm
	0.75-2.5	0.75-2.5	0.8	0.75-2.5	0.8
	0.75-2.5	0.75-2.5			
18-32A					
	mm²	mm²	Nm	Aux Contact mm²	Nm
	1 - 6 (1 - 10)*	1 - 6 (1 - 10)*	2	0.75-2.5	0.8
	1 - 4 (1 - 10)*	1 - 4 (1 - 10)*			

Thermal overload relays XTOD



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Thermal overload relays XTOD

Product description

XTOD thermal overload relays offer precision motor protection with phase loss protection and ambient temperature compensation. The seperate mount design allows for flexibility and the units can be mounted on DIN rail or directly on the panel adjacent the motor contactor.

Features

3.1

• Precision motor protection up to 32A

System overview

- Integral 1NO/1NC contact for contactor control and alarm signal
- Phase loss protection
- Ambient temperature compensation
- DIN rail or panel mount options

System overview

Thermal overload relays provide protective features for 1 or 3 phase motors. The relay monitors the operating current of the motor and switched the contactor off in the event of an overload situation. It also protects the motor from damage during phase loss.

Standards and certifications

- GB 14048
- IEC/EN 60947
- CCC
- CE

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Thermal overload relays

For use with		Setting range of overload releases _r (A)	Circuit symbol	Auxiliary contact		Part no. Article no.	Standard package	
				N/O =Norm N/C =Norm				
XTCG007 XTCG009	Seperate mounting	0.3~0.45	97 95 	1 N/0	1 N/C	XTODP45CC1S 167952	1 piece	
XTCG009 XTCG012	Seperate mounting	0.45 ~0.67	97 95 1 1 7 7 7 7 7 7 7 7	1 N/0	1 N/C	XTODP67CC1S 167953	1 piece	
XTCG018 XTCG025	Seperate mounting	0.67~1.0	97 95 	1 N/0	1 N/C	XTOD001CC1S 167954	1 piece	
XTCG032	Seperate mounting	1.0 ~1.5	97 95 12 14 1 98 96	1 N/0	1 N/C	XTOD1P5CC1S 167955	1 piece	
	Seperate mounting Seperate mounting	1.4 ~2.1	97 95 CICICI-Y-7 2 4 6 98 96	1 N/0	1 N/C	XTOD2P2CC1S 167956	1 piece	
		1.8~2.7	97 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 N/0	1 N/C	XTOD2P7CC1S 167957	1 piece	
	Seperate mounting	2.4~3.6	97 95 1 4 6 98 96	1 N/0	1 N/C	XTOD3P6CC1S 167958	1 piece	
	Seperate mounting	3.5~5.0	97 95 	1 N/0	1 N/C	XTOD005CC1S 167959	1 piece	
	Seperate mounting	4.0~6.0	97 95 1 4 6 98 96	1 N/0	1 N/C	XTOD006CC1S 167960	1 piece	
	Seperate mounting	5.5~8.5	97 95 1 1 1 1 1 1 1 1 1 1	1 N/0	1 N/C	XTOD8P5CC1S 167961	1 piece	
	Seperate mounting	8.5~12.5	97 95 	1 N/0	1 N/C	XTOD013CC1S 167962	1 piece	
	Seperate mounting	12.5~18	97 95 CICICI-1-7 2 4 6 98 96	1 N/0	1 N/C	XTOD018CC1S 167963	1 piece	
	Seperate mounting	17~24	97 95 CICICI-1-7 2 4 6 98 96	1 N/0	1 N/C	XTOD024CC1S 167964	1 piece	
	Seperate mounting	22~30	97 95 1111 - 7 2 4 6 98 96	1 N/0	1 N/C	XTOD030CC1S 167965	1 piece	

XTOD..CC1S

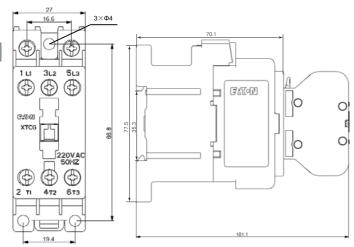
General		XTODCC1S
Standards		IEC/EN 60947, GB 14048
Climatic Proofing		Damp heat, constant, to IEC60068-2-78 Damp heat, cyclic, to IEC60068-2-30
Ambient temperature		
Open	°C	-25~55
Enclosed	°C	-25~40
Temperature compensation	°C	-5~40
Weight	kg	0.15
Protection type		IP20

Main contacts			XTODCC1S	
Rated impulse withstand voltage	U_{imp}	VAC	6000	
Overvoltage category/pollution degree			III/3	
Rated insulation voltage				
AC	U_{i}	VAC	690	
Rated operational voltage	U _e	VAC	600	
Overload release setting range		А	0.3-30	
Terminal capacity				
Solid		mm ²	1 x (1-6)	
			2 x (1-6)	
Flexible with ferrule		mm²	1 x (1-6)	
			2 x (1-6)	
Solid/stranded		AWG		
Terminal screw			M4	
Tightening torque		Nm	1.2	

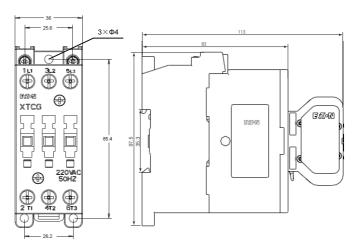
		XTODCC1S	
U_{imp}	V	6000	
		III/3	
	mm ²	1 x (1-6)	
		2 x (1-6)	
	mm ²	1 x (1-6)	
		2 x (1-6)	
	AWG		
		M3.5	
	Nm	0.8	
Ui	VAC	690	
U _e	VAC	600	
I _{th}	Α	10	
l _e	Α	6	
l _e	А	3	
l _e	А	1.9	
l _e	А	1.5	
l _e	А	1.4	
l _e	А	1.2	
l _e	А	0.55	
l _e	А	0.27	
	Ui Ue Ith	Uimp V	U _{imp} V 6000 III/3 mm² 1 x (1-6) 2 x (1-6) mm² 1 x (1-6) 2 x (1-6) AWG M3.5 Nm 0.8 Ui VAC 690 Ue VAC 600 Ith A 10 Ie A 3 Ie A 3 Ie A 1.9 Ie A 1.5 Ie A 1.4 Ie A 1.2 Ie A 0.55

Contactors

7-12A Frame

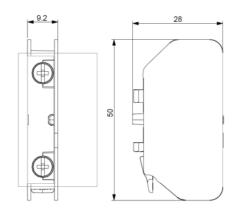


18-32A Frame

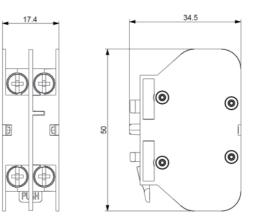


Auxiliary contact module

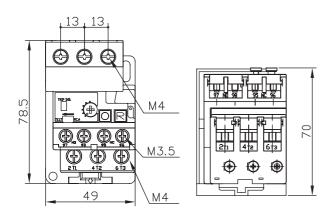
1 Pole

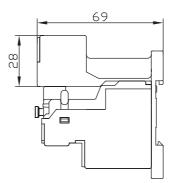


2 Pole

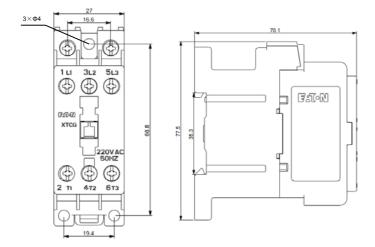


Thermal overload relay + mounting adapter XTOD..CC1S

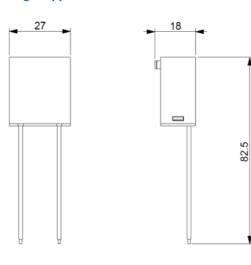




Control Relay

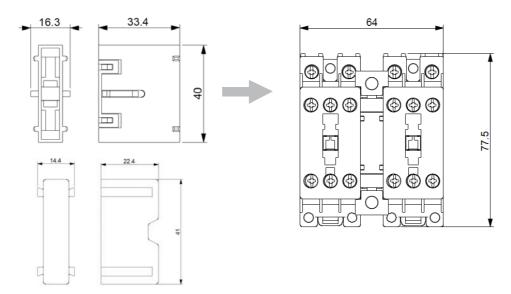


Surge suppressor

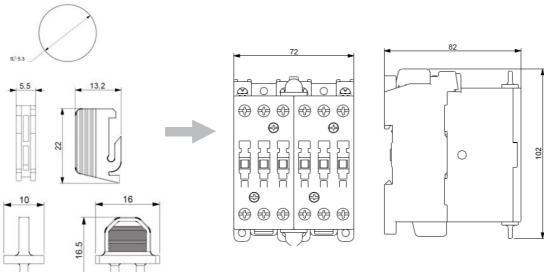


Mechanical interlock

7-12A Frame







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