

IEC CONTACTORS AND OVERLOAD RELAYS



All models shown smaller than actual size.



XTCE/XTOB



SNAP-ON

- Modular Design
- Compact Frame
- Easy to Install

XT Series includes non-reversing contactors, overload relays and a variety of related accessories. Because XT meets IEC, UL, CSA, CCC and CE standards, it is the perfect product solution for IEC applications all over the world. The compact, space saving, and easy to install XT line of IEC contactors and overload relays is the efficient and effective solution for customer applications up to 32 A.



XCTE SPECIFICATIONS

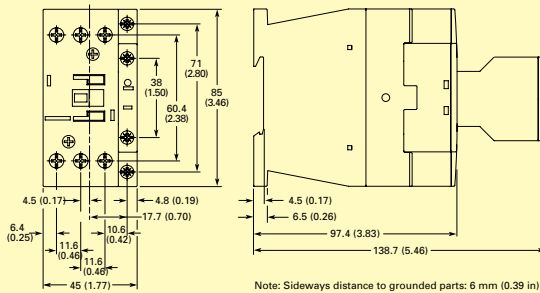
FULL VOLTAGE NON-REVERSING 3-POLE CONTACTORS, SCREW TERMINALS, FRAME B AND FRAME C															
MODEL NO.	I_e (A)		MAXIMUM KW RATINGS AC-3				MAXIMUM 3-PHASE MOTOR RATING, UL/CSA					AUX. CONTACTS			
	AC-3	AC-1 (60°C)	3-PHASE MOTORS 50 – 60 HZ				1-PHASE HP RATINGS			3-PHASE HP RATINGS					
FRAME B			220/230V	380/400V	415V	690V 660/	115V	200V	230V	200V	230V	460V	575V		
XTCE007B10	7	20	2.2	3	4	3.5	¼	¾	1	1.5	2	3	5	1 NO	
XTCE009B10	9	20	2.5	4	5.5	4.5	½	1	1.5	3	3	5	7.5	1 NO	
XTCE009B01	9	20	2.5	4	5.5	4.5	½	1	1.5	3	3	5	7.5	1 NC	
XTCE012B10	12	20	3.5	5.5	7	6.5	1	2	2	3	3	10	10	1 NO	
FRAME C															
XTCE018C10	18	35	5	7.5	10	11	2	2	3	5	5	10	15	1 NO	
XTCE025C10	25	40	7.5	11	14.5	14	2	3	5	7.5	7.5	15	20	1 NO	
XTCE032C10	32	40	10	15	18	17	3	5	5	10	10	20	25	1 NO	

Notes: 1. The Contactors have positively driven contacts between the integrated auxiliary contact and the auxiliary contact module as well as within the auxiliary contact modules. 2. DC operated contactors have a built-in suppressor circuit.

CONTRACTORS SPECIFICATIONS

MODELS	FRAME B			FRAME C		
	XTCE007B	XTCE009B	XTCE012B	XTCE020B	XTCE018C	XTCE025C
Standards	IEC/EN 60947, VDE 0660, UL, CSA, CCC, RoHS					
Weights in kg (lb)						
AC Operated	0.23 (0.51)			0.42 (0.93)		
DC Operated	0.28 (0.62)			0.48 (1.06)		
Mechanical Life	10,000,000					
Mechanical Operating Frequency (ops/hr) AC or DC Operated	9000			5000		
Electrical Operating Frequency (ops/hr)						
AC-1: 400V I_e	800			800		
AC-3: 400V I_e	1000			800		
AC-4: 400V I_e	300			300		
Climatic Proofing	Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30					
Insulation Voltage (U_i) Vac	690					
Impulse Withstand Voltage (U_{imp}) Vac	8000					
Operational Voltage (U_o) Vac	690					
Safe Isolation to VDE 0106 Part 101 and Part 101/A1						
Between Coil and Contacts (Vac)	400			440		
Between Contacts (Vac)	400			238		440
Making Capacity Up to 690V (Amps)	112	112	144	440		
Breaking Capacity (Amps)						
220/230V	70	90	120	170	250	320
380/400V	70	90	120	170	250	320
500V	50	70	100	170	250	320
660/690V	40	50	70	120	150	80
Short-Circuit Protection Rating Maximum Fuse						
Type 2 Coordination						
400V: gG/gL 500V	20			25	35	63
690V: gG/gL 690V	16		20	25	35	35
Type 1 Coordination						
400V: gG/gL 500V	35			63	100	125
690V: gG/gL 690V	20			50	50	63
Degree of Protection	IP20					
Protection Against Direct Contact when Actuated from Front (IEC 536)	Finger- and back-of-hand proof					
Terminal Capacity Main Cable—Screw Terminals Solid (mm²)	1 x (0.75 to 4), 2 x (0.75 to 2.5)			1 x (0.75 to 16), 2 x (0.75 to 10)		
Flexible with Ferrule (mm²)	1 x (0.75 to 2.5), 1 x (0.75 to 2.5)			1 x (0.75 to 16), 2 x (0.75 to 10)		
Solid or Stranded (AWG)	18 to 14			18 to 6		
Terminal Capacity Control Circuit Cable—Screw Terminals Solid (mm²)	1 x (0.75 to 4), 2 x (0.75 to 2.5)			1 x (0.75 to 4), 2 x (0.75 to 4)		
Flexible with Ferrule (mm²)	1 x (0.75 to 2.5), 2 x (0.75 to 2.5)					
Solid or Stranded (AWG)	18 to 14					
Main Cable & Control Circuit Cable Connection Screw/Bolt	M3.5			M5		
Tightening Torque Nm Lb-in	1.2 (10.6)			3 (26.6)		
Tools						
Main & Control Circuit Cable (Screw Terminals)	Size 2					
Pozidriv Screwdriver	0.8 x 5.5					
Standard Screwdriver	1 x 6					
Ambient Temperature						
Open	-25 to 60°C (-13 to 140°F)					
Enclosed	-25 to 40°C (-13 to 104°F)					
Ambient Storage Temperature	-40 to 80°C (-40 to 176°F)					

XTCE018C
to
XTCE032C



Dimensions: mm (inch)

Note: Sideways distance to grounded parts: 6 mm (0.39 in)

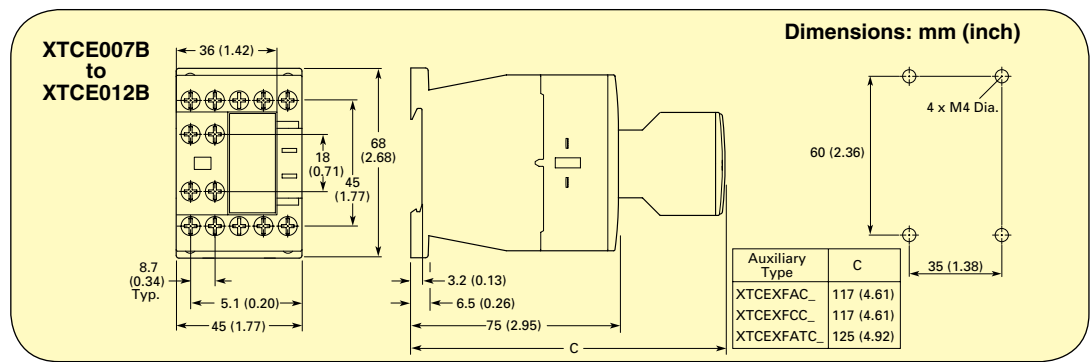
AUXILIARY CONTACTS TECHNICAL DATA AND SPECIFICATIONS

MODEL	XTCE007B TO XTCE032C	XTCEXFAC
Interlocked Opposing Contacts with An Auxiliary Contact Module (to IEC 60947-5 -1 Annex L)	—	Yes
Break Contact (Not Late-Break Contact) Suitable as a Mirror Contact (to IEC/EN 60947-4 -1 Annex F)	XTCE007B to XTCE032C	XTCE007B to XTCE032C
Rated Impulse Withstand Voltage, (U_{imp}) Vac	6000	—
Overtoltage Category/Pollution Degree	III/3	—
Rated Insulation Voltage, (U_i) Vac	690	—
Rated Operational Voltage, (U_o) Vac		
Safe isolation to VDE 0106 Part 101 and Part 101(A) in Vac		
Between Coil and Auxiliary Contacts	400	400
Between the Auxiliary Contacts	400	400
Rated Operational Current, I_o	—	—
AC-15	—	—
230V	6 A	6 A
380/415V	4 A	3 A
500V	1.5 A	—
DC-3 L/R 5 mS 24V	10 A	10 A
60V	6 A	6 A
110V	3 A	3 A
220V	1 A	1 A
Conventional Thermal Current, I_{th}	16 A	16 A
Control Circuit Reliability (at $U_o = 24$ Vdc, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)	$<10^{-8}$, < one failure at 100 million operations	
Component Lifespan, Operations x 106 at $U_e = 230$ V, AC-15, 3 A	1.3	1.3
Short-Circuit Rating Without Welding Maximum Fuse, gG/gL	10 A	10 A

MINI OVERLOAD SPECIFICATIONS

MODEL NO.	OVERLOAD RELEASE I	TRIP CLASS	CONTACT CONFIG.	SHORT CIRCUIT PROTECTION (A)			
				TYPE 1 COORDINATION, GG/GL	TYPE 2 COORDINATION, GG/GL	CIRCUIT BREAKER	CEC/NEC FUSE
XTOB001BC1	0.6-1 A	10 A	1 NO-1 NC	25	4	25	3
XTOB1P6BC1	1-1.6 A			25	6	25	6
XTOB2P4BC1	1.6-2.4 A			25	10	25	6
XTOB004BC1	2.4-4 A			25	16	25	15
XTOB006BC1	4-6 A			25	20	25	20
XTOB010BC1	6-10 A			50	25	25	35
XTOB012BC1	9-12 A			50	25	25	45
XTOB016CC1	10-16 A			63	35	30	25
XTOB024CC1	16-24 A			100	35	30	25
XTOB032CC1	24-32 A			125	63	30	25

Note 1: Short-circuit protection: Observe the maximum permissible fuse of the contactor with direct device mounting.



To Order

IEC OPEN TYPE CONTACTORS 3P FVNR

MODEL NO.	DESCRIPTION
XTCE007B10A	Contactors 3P FVNR 7 A Frame B 1NO 110/50 120/60 AC Coil
XTCE007B10T	Contactors 3P FVNR 7 A Frame B 1NO 24/50 24/60 AC Coil
XTCE007B10TD	Contactors 3P FVNR 7 A Frame B 1NO 24 Vdc Coil
XTCE009B10A	Contactors 3P FVNR 9 A Frame B 1NO 110/50 120/60 AC Coil
XTCE009B10T	Contactors 3P FVNR 9 A Frame B 1NO 24/50 24/60 AC Coil
XTCE009B10TD	Contactors 3P FVNR 9 A Frame B 1NO 24 Vdc Coil
XTCE012B10A	Contactors 3P FVNR 12 A Frame B 1NO 110/50 120/60 AC Coil
XTCE012B10T	Contactors 3P FVNR 12 A Frame B 1NO 24/50 24/60 AC Coil
XTCE012B10TD	Contactors 3P FVNR 12 A Frame B 1NO 24 Vdc Coil
XTCE018C10A	Contactors 3P FVNR 18 A Frame C 1NO 110/50 120/60 AC Coil
XTCE018C10T	Contactors 3P FVNR 18 A Frame C 1NO 24/50 24/60 AC Coil
XTCE018C10TD	Contactors 3P FVNR 18 A Frame C 1NO 24-27 Vdc Coil
XTCE025C10A	Contactors 3P FVNR 25 A Frame C 1NO 110/50 120/60 AC Coil
XTCE025C10T	Contactors 3P FVNR 25 A Frame C 1NO 24/50 24/60 AC Coil
XTCE025C10TD	Contactors 3P FVNR 25 A Frame C 1NO 24-27 Vdc Coil
XTCE032C10A	Contactors 3P FVNR 32 A Frame C 1NO 110/50 120/60 AC Coil
XTCE032C10T	Contactors 3P FVNR 32 A Frame C 1NO 24/50 24/60 AC Coil
XTCE032C10TD	Contactors 3P FVNR 32 A Frame C 1NO 24-27 Vdc Coil

ACCESSORIES

AUXILIARY CONTACTS

MODEL NO.	DESCRIPTION
XTCEXFAC02	Front mounted snap-on auxiliary contact Seq A Frame B-C 2NC
XTCEXFAC11	Front mounted snap-on auxiliary contact Seq A Frame B-C 1NO 1NC
XTCEXFAC20	Front mounted snap-on auxiliary contact Seq A Frame B-C 2NO
XTCEXMLB	Contactors accessory mechanical interlock Frame B
XTCEXMLC	Contactors accessory mechanical interlock Frame C

IEC OVERLOAD RELAYS

MODEL NO.	DESCRIPTION
XTOB001BC1	IEC OVL R Frame B, Class 10 0.6-1 A
XTOB1P6BC1	IEC OVL R Frame B, Class 10 1-1.6 A
XTOB2P4BC1	IEC OVL R Frame B, Class 10 1.6-2.4 A
XTOB004BC1	IEC OVL R Frame B, Class 10 2.4-4 A
XTOB006BC1	IEC OVL R Frame B, Class 10 4-6 A
XTOB010BC1	IEC OVL R Frame B, Class 10 6-10 A
XTOB012BC1	IEC OVL R Frame B, Class 10 9-12 A
XTOB016CC1	IEC OVL R Frame C, Class 10 10-16 A
XTOB024CC1	IEC OVL R Frame C, Class 10 16-24 A
XTOB032CC1	IEC OVL R Frame C, Class 10 24-32 A

Comes with complete operator's manuals.

Ordering Example: **XTCE007B10A**, contactor, **XTCEXFAC11**, auxiliary contact, **XTOB010BC1**, overload relay, 2.4 to 4 A.