



IEC CONTACTORS AND OVERLOAD RELAYS

XTCE/XTOB Series Starts at \$72



XTCE018C10A, \$105

All models shown smaller than actual size.



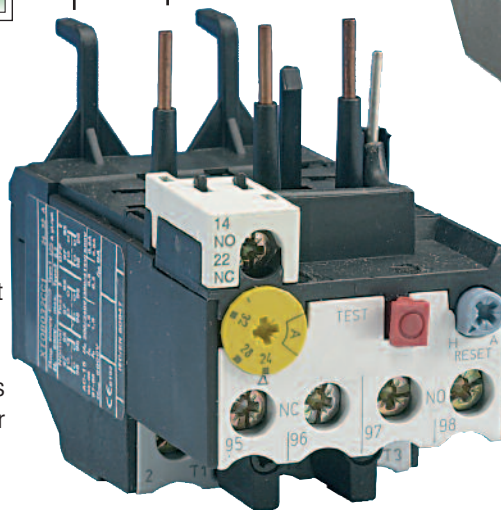
XTCEXFAC02-5PK, \$101

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.



XTOB024CC1, \$56

XCTE SPECIFICATIONS

| FULL VOLTAGE NON-REVERSING 3-POLE CONTACTORS, SCREW TERMINALS, FRAME B AND FRAME C | | | | | | | | | | | | | | |
|--|-----------|--------------------|---------------------------|----------|------|-----------|--------------------------------------|------|------|--------------------|------|------|---------------|------|
| | I_e (A) | $I_e = I_{th}$ (A) | MAXIMUM KW RATINGS AC-3 | | | | MAXIMUM 3-PHASE MOTOR RATING, UL/CSA | | | | | | | |
| MODEL NO. | AC-3 | AC-1 (60°C) | 3-PHASE MOTORS 50 – 60 HZ | | | | 1-PHASE HP RATINGS | | | 3-PHASE HP RATINGS | | | AUX. CONTACTS | |
| FRAME B | | | 220/230V | 380/400V | 415V | 690V/660V | 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 |

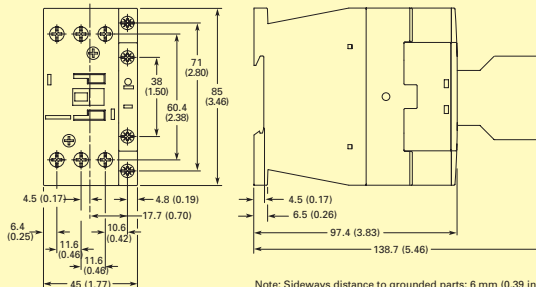
Notes: 1. The Contactors have positively driven contacts between the integrated auxiliary contact and the auxiliary contact module as well as within the auxiliary contact modules. 2. DC operated contactors have a built-in suppressor circuit.

CONTRACTORS SPECIFICATIONS

| MODELS | FRAME B | | | | FRAME C | | |
|--|--|----------|----------|----------|------------------------------------|----------|----------|
| | XTCE007B | XTCE009B | XTCE012B | XTCF020B | XTCE018C | XTCE025C | XTCE032C |
| 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 _e) 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 | | | | 63 | | |
| 690V: gG/gL 690V | 16 | | | 20 | 25 | 35 | 35 |
| Type 1 Coordination | | | | | | | |
| 400V: gG/gL 500V | 35 | | | | 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 (mm ²) | 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 (mm ²) | 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 (mm ²) | 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 (mm ²) | 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 (in)

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

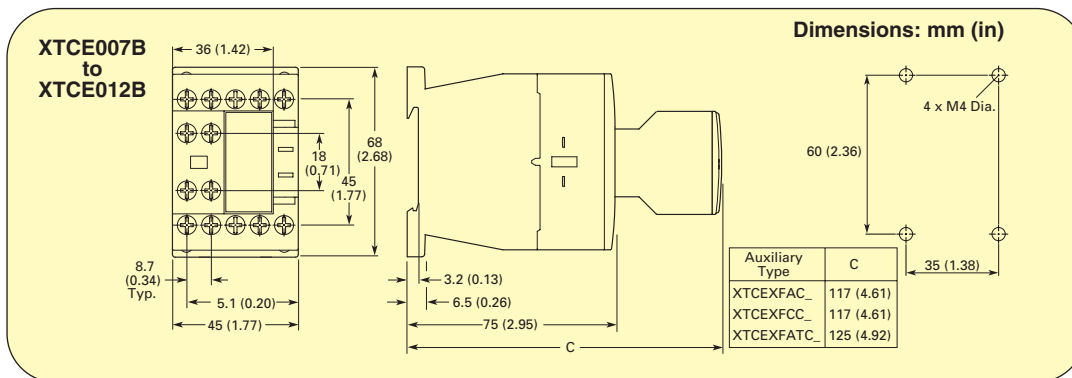
AUXILIARY CONTACTS TECHNICAL DATA AND SPECIFICATIONS

| 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_e) 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_e | — | — |
| 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 $U_e = 24$ 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_r | 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 (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

IEC OPEN TYPE CONTACTORS 3P FVNR

| MODEL NO. | PRICE | DESCRIPTION |
|--------------|-------|---|
| XTCE007B10A | \$72 | Contactors 3P FVNR 7 A Frame B 1NO 110/50 120/60 AC Coil |
| XTCE007B10T | 68 | Contactors 3P FVNR 7 A Frame B 1NO 24/50 24/60 AC Coil |
| XTCE007B10TD | 89 | Contactors 3P FVNR 7 A Frame B 1NO 24 Vdc Coil |
| XTCE009B10A | 74 | Contactors 3P FVNR 9 A Frame B 1NO 110/50 120/60 AC Coil |
| XTCE009B10T | 74 | Contactors 3P FVNR 9 A Frame B 1NO 24/50 24/60 AC Coil |
| XTCE009B10TD | 95 | Contactors 3P FVNR 9 A Frame B 1NO 24 Vdc Coil |
| XTCE012B10A | 91 | Contactors 3P FVNR 12 A Frame B 1NO 110/50 120/60 AC Coil |
| XTCE012B10T | 91 | Contactors 3P FVNR 12 A Frame B 1NO 24/50 24/60 AC Coil |
| XTCE012B10TD | 116 | Contactors 3P FVNR 12 A Frame B 1NO 24 Vdc Coil |
| XTCE018C10A | 105 | Contactors 3P FVNR 18 A Frame C 1NO 110/50 120/60 AC Coil |
| XTCE018C10T | 105 | Contactors 3P FVNR 18 A Frame C 1NO 24/50 24/60 AC Coil |
| XTCE018C10TD | 126 | Contactors 3P FVNR 18 A Frame C 1NO 24-27 Vdc Coil |
| XTCE025C10A | 126 | Contactors 3P FVNR 25 A Frame C 1NO 110/50 120/60 AC Coil |
| XTCE025C10T | 126 | Contactors 3P FVNR 25 A Frame C 1NO 24/50 24/60 AC Coil |
| XTCE025C10TD | 146 | Contactors 3P FVNR 25 A Frame C 1NO 24-27 Vdc Coil |
| XTCE032C10A | 157 | Contactors 3P FVNR 32 A Frame C 1NO 110/50 120/60 AC Coil |
| XTCE032C10T | 157 | Contactors 3P FVNR 32 A Frame C 1NO 24/50 24/60 AC Coil |
| XTCE032C10TD | 182 | Contactors 3P FVNR 32 A Frame C 1NO 24-27 Vdc Coil |

ACCESSORIES

AUXILIARY CONTACTS

| MODEL NO. | PRICE | DESCRIPTION |
|----------------|-------|--|
| XTCEXFAC02-5PK | \$101 | 5 pack of front mounted snap-on auxiliary contacts Seq A Frame B-C 2NC |
| XTCEXFAC11-5PK | 101 | 5 pack of front mounted snap-on auxiliary contacts Seq A Frame B-C 1NO 1NC |
| XTCEXFAC20-5PK | 101 | 5 pack of front mounted snap-on auxiliary contacts Seq A Frame B-C 2NO |
| XTCEXMLB | 15 | Contactors accessory mechanical interlock Frame B |
| XTCEXMLC | 15 | Contactors accessory mechanical interlock Frame C |

IEC OVERLOAD RELAYS

| MODEL NO. | PRICE | DESCRIPTION |
|------------|-------|--------------------------------------|
| XTOB001BC1 | \$53 | IEC OVLR Frame B, Class 10 0.6-1 A |
| XTOB1P6BC1 | 53 | IEC OVLR Frame B, Class 10 1-1.6 A |
| XTOB2P4BC1 | 53 | IEC OVLR Frame B, Class 10 1.6-2.4 A |
| XTOB004BC1 | 53 | IEC OVLR Frame B, Class 10 2.4-4 A |
| XTOB006BC1 | 53 | IEC OVLR Frame B, Class 10 4-6 A |
| XTOB010BC1 | 53 | IEC OVLR Frame B, Class 10 6-10 A |
| XTOB012BC1 | 53 | IEC OVLR Frame B, Class 10 9-12 A |
| XTOB016CC1 | 56 | IEC OVLR Frame C, Class 10 10-16 A |
| XTOB024CC1 | 56 | IEC OVLR Frame C, Class 10 16-24 A |
| XTOB032CC1 | 66 | IEC OVLR Frame C, Class 10 24-32 A |

Comes with complete operator's manuals.

Ordering Example: XTCE007B10A, Contactor, XTCEXFAC11-5PK, auxiliary contacts, XTOB010BC1, Overload Relay, 2.4 to 4 A, \$68 + 101 + 53 = \$222



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