

#### Frame C—Maximum UL/CSA Ratings

Three-Phase hp Ratings				Max. Changeover Time (sec)	Component Description	Catalog Number ①
200V	230V	460V	575V			
7-1/2	7-1/2	15	20	<20	K1M main contactor	XTCE018C10_
					K5M delta contactor	XTCE018C01_
					K3M star contactor	XTCE018C01_
					Mechanical interlock	XTCEXMLC
					K1T timing relay	XTTR6A60S51B
					Overload relay	XTOB...CC1
					(3) auxiliary contacts	XTCEXFAC20
					Star-delta link kit	XTCEXSDLC
10	15	30	40		<20	K1M main contactor
				K5M delta contactor		XTCE025C01_
				K3M star contactor		XTCE025C01_
				Mechanical interlock		XTCEXMLC
				K1T timing relay		XTTR6A60S51B
				Overload relay		XTOB...CC1
				(3) auxiliary contacts		XTCEXFAC20
				Star-delta link kit		XTCEXSDLC
15	20	40	50	<20		K1M main contactor
					K5M delta contactor	XTCE032C01_
					K3M star contactor	XTCE032C01_
					Mechanical interlock	XTCEXMLC
					K1T timing relay	XTTR6A60S51B
					Overload relay	XTOB...CC1
					(3) auxiliary contacts	XTCEXFAC20
					Star-delta link kit	XTCEXSDLC

#### Frame C—Maximum IEC Ratings





AC-3 I <sub>e</sub> (A)	Three-Phase Motors 50–60 Hz						Max. Changeover Time (sec)	Component Description	Catalog Number ①
	220/230V	380/400V	415V	500V	660/690V	1000V			
30	7.5	15	19	18.5	18.5	—	<20	K1M main contactor	XTCE018C10_
								K5M delta contactor	XTCE018C01_
								K3M star contactor	XTCE018C01_
								Mechanical interlock	XTCEXMLC
								K1T timing relay	XTTR6A60S51B
								Overload relay	XTOB...CC1
								(3) auxiliary contacts	XTCEXFAC20
								Star-delta link kit	XTCEXSDLC
45	11	22	30	30	22	—		<20	K1M main contactor
							K5M delta contactor		XTCE025C01_
							K3M star contactor		XTCE025C01_
							Mechanical interlock		XTCEXMLC
							K1T timing relay		XTTR6A60S51B
							Overload relay		XTOB...CC1
							(3) auxiliary contacts		XTCEXFAC20
							Star-delta link kit		XTCEXSDLC
55	15	30	39	37	30	—	<20		K1M main contactor
								K5M delta contactor	XTCE032C01_
								K3M star contactor	XTCE032C01_
								Mechanical interlock	XTCEXMLC
								K1T timing relay	XTTR6A60S51B
								Overload relay	XTOB...CC1
								(3) auxiliary contacts	XTCEXFAC20
								Star-delta link kit	XTCEXSDLC

**Note**



① Underscore (\_) indicates magnet coil suffix required. See Page V5-T1-62.

## Additional Accessories

Mechanical Interlock <sup>①</sup>


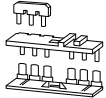
	For Use with...	Pkg. Qty. <sup>②</sup>	Catalog Number
<b>XTCEXMLB</b>	XTCE007B–XTCE015B, XTCF020B	5	<b>XTCEXMLB</b>
			
<b>XTCEXML_</b>	XTCE018C–XTCE032C, XTCF032C–XTCF045C	1	<b>XTCEXMLC</b>
			
	XTCE040D–XTCE072D, XTCF063D–XTCF080D	1	<b>XTCEXMLD</b>
	XTCE080F–XTCE170G, XTCF125G–XTCF200G	1	<b>XTCEXMLG</b> <sup>③</sup>
<b>XTCEXMLM</b>	XTCE185H–XTCE570M	1	<b>XTCEXMLM</b>
			
<b>XTCEXMLN</b>	XTCE580N–XTCEC10N	1	<b>XTCEXMLN</b> <sup>③</sup>
			

## Reversing Link Kits

	For Use with...	Pkg. Qty. <sup>②</sup>	Catalog Number
<b>XTCEXRLB</b>	XTCE007B–XTCE015B	1	<b>XTCEXRLB</b> <sup>④</sup>
			
<b>XTCEXRL_</b>	XTCE018C–XTCE032C	1	<b>XTCEXRLC</b>
			
	XTCE040D–XTCE065D	1	<b>XTCEXRLD</b>
	XTCE080F–XTCE150G	1	<b>XTCEXRLG</b>



Main current wiring for reversing combinations. Includes paralleling bridge and reversing bridge. Does not include mechanical interlock, see table on this page.

## Star-Delta (Wye-Delta) Link Kits

	For Use with...	Pkg. Qty. <sup>②</sup>	Catalog Number
<b>XTCEXSDLB</b>	XTCE007B–XTCE015B	1	<b>XTCEXSDLB</b> <sup>③</sup>
			
<b>XTCEXSDL_</b>	XTCE018C–XTCE032C	1	<b>XTCEXSDLC</b>
			
	XTCE040D–XTCE072D	1	<b>XTCEXSDLD</b>
	XTCE080F–XTCE095F	1	<b>XTCEXSDLF</b>
	XTCE115G–XTCE150G	1	<b>XTCEXSDLG</b>



Main current wiring for star-delta (wye-delta) combinations. Includes paralleling bridge, reversing bridge and star-delta bridge. Does not include mechanical interlock, see table on this page.

## Paralleling Bridge

	For Use with...	Pkg. Qty. <sup>②</sup>	Catalog Number
<b>XTCEXPBB</b>	XTCE007B–XTCE015B	20	<b>XTCEXPBB</b>
			
<b>XTCEXPBC</b>	XTCE018C–XTCE032C	20	<b>XTCEXPBC</b>
			

Component part of reversing link kit (XTCEXRL\_). Parallels the phases on the line-side of two contactors.

## Reversing Bridge

	For Use with...	Pkg. Qty. <sup>②</sup>	Catalog Number
<b>XTCEXRBB</b>	XTCE007B–XTCE015B	20	<b>XTCEXRBB</b>
			
<b>XTCEXRBC</b>	XTCE018C–XTCE032C	20	<b>XTCEXRBC</b>
			
	XTCE040D–XTCE065D	10	<b>XTCEXRBD</b>

Component part of reversing link kit (XTCEXRL\_). Reverses the phases on the load-side of two contactors.



## Notes

- ① For two contactors with AC or DC operated magnet system which are horizontally or vertically mounted. For Frames B–G, mechanical lifespan is  $2.5 \times 10^6$  operations and the distance between contactors is 0 mm. For Frames L–N, mechanical lifespan is  $5 \times 10^6$  operations and no auxiliary contact can be mounted between the mechanical interlock and the contactor—the distance between contactors is 15 mm.
- ② Orders must be placed in multiples of package quantity listed.
- ③ XTCEXMLG and XTCEXMLN consist of an interlock element and mounting plate.
- ④ Also includes interlocking bridge (XTCEXLB). The following control cables are integrated for electrical interlock: K1M: A1–K2M: 21; K1M: 21–K2M: A1; K1M: A2–K2M: A2.

#### Electrical Interlocking Bridge


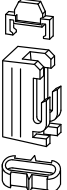
For Use with...	Pkg. Qty. ①	Catalog Number
XTCE007B–XTCE015B	20	<b>XTCEXLBB</b>

#### Star-Delta (Wye-Delta) Bridge



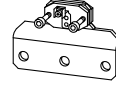
For Use with...	Pkg. Qty. ①	Catalog Number
<b>XTCEXSDB</b>		
XTCE007B–XTCE015B	20	<b>XTCEXSDBB</b> ②
		
<b>XTCEXSDB_</b>		
XTCE080F–XTCE170G	1	<b>XTCEXSDBG</b>
XTCE185L–XTCE400M	1	<b>XTCEXSDB400</b>
XTCE500M	1	<b>XTCEXSDB500</b>
		

Component part of star-delta link kit (XTCEXSDL\_). Commons the three phases on the line side of shorting contactor.

#### Connector


For Use with...	Pkg. Qty. ①	Catalog Number
<b>XTCEXCNC</b>		
XTCE007B–XTCE032C	50	<b>XTCEXCNC</b>
		
<b>XTCEXCNG</b>		
XTCE040D–XTCE170G	10	<b>XTCEXCNG</b>
		

#### Parallel Link ④⑤⑥

For Use with...	Pkg. Qty. ①	Catalog Number
<b>XTCEXPLKB</b>		
XTCE007B–XTCE015B	5	<b>XTCEXPLKB</b>
		
<b>XTCEXPLK_</b>		
XTCE018C–XTCE032C	5	<b>XTCEXPLKC</b>
XTCE040D–XTCE072D	1	<b>XTCEXPLKD</b>
XTCE080F–XTCE170G	1	<b>XTCEXPLKG</b>
		
<b>XTCEXPLKL185</b>		
XTCE185L	1	<b>XTCEXPLKL185</b>
		

For using one contactor per phase. Each package comes with two links for line: load.

#### Contactor Labels

For Use with...	Pkg. Qty.	Catalog Number
<b>XGKE-GE</b>		
XTC...	25	<b>XGKE-GE</b> ⑦
		

#### Notes

- ① Orders must be placed in multiples of package quantity listed.
- ② Frame B is toolless connection type.
- ③ For mechanically arranging contactors in combinations. Distance between contactors is 0 mm.
- ④ Fourth pole can be broken off: four-pole: I<sub>th</sub> = 60A; three-pole: I<sub>th</sub> = 50A.
- ⑤ AC-1 current carrying capacity of the contactor increases by a factor of 2.5. For XTCEXPLKL185, one shroud is included for protection against accidental contact.
- ⑥ Protected against accidental contact in accordance with IEC 536.
- ⑦ Quantity 1 equals one sheet. One sheet contains 240 labels.