

Frame D—Maximum UL/CSA Ratings

Three-Phase hp Ratings				Max. Changeover Time (sec)	Component Description	Catalog Number ①
200V	230V	460V	575V			
20	25	50	60	<20	K1M main contactor	XTCE040D00_
					K5M delta contactor	XTCE040D00_
					K3M star contactor	XTCE040D00_
					Mechanical interlock	XTCEXMLD
					K1T timing relay	XTTR6A60S51B
					Overload relay	XTOB...DC1
					(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
					(1) auxiliary contact (K5M)	XTCEXFBG31
					Star-delta link kit	XTCEXSOLD
25	30	60	75	<20	K1M main contactor	XTCE050D00_
					K5M delta contactor	XTCE050D00_
					K3M star contactor	XTCE040D00_
					Mechanical interlock	XTCEXMLD
					K1T timing relay	XTTR6A60S51B
					Overload relay	XTOB...DC1
					(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
					(1) auxiliary contact (K5M)	XTCEXFBG31
					Star-delta link kit	XTCEXSOLD
40	50	100	125	<20	K1M main contactor	XTCE065D00_
					K5M delta contactor	XTCE065D00_
					K3M star contactor	XTCE040D00_
					Mechanical interlock	XTCEXMLD
					K1T timing relay	XTTR6A60S51B
					Overload relay	XTOB...DC1
					(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
					(1) auxiliary contact (K5M)	XTCEXFBG31
					Star-delta link kit	XTCEXSOLD

Frame D—Maximum IEC Ratings





AC-3 I _e (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
70	18.5	37	37	45	37	—	<20	K1M main contactor	XTCE040D00_
								K5M delta contactor	XTCE040D00_
								K3M star contactor	XTCE040D00_
								Mechanical interlock	XTCEXMLD
								K1T timing relay	XTTR6A60S51B
								Overload relay	XTOB...DC1
								(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
								(1) auxiliary contact (K5M)	XTCEXFBG31
								Star-delta link kit	XTCEXSOLD
90	22	45	45	55	45	—	<20	K1M main contactor	XTCE050D00_
								K5M delta contactor	XTCE050D00_
								K3M star contactor	XTCE040D00_
								Mechanical interlock	XTCEXMLD
								K1T timing relay	XTTR6A60S51B
								Overload relay	XTOB...DC1
								(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
								(1) auxiliary contact (K5M)	XTCEXFBG31
								Star-delta link kit	XTCEXSOLD
115	30	55	55	75	55	—	<20	K1M main contactor	XTCE065D00_
								K5M delta contactor	XTCE065D00_
								K3M star contactor	XTCE040D00_
								Mechanical interlock	XTCEXMLD
								K1T timing relay	XTTR6A60S51B
								Overload relay	XTOB...DC1
								(2) auxiliary contacts (K1M, K3M)	XTCEXFBG11
								(1) auxiliary contact (K5M)	XTCEXFBG31
								Star-delta link kit	XTCEXSOLD

Note



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

Additional Accessories

Mechanical Interlock ^①

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

Reversing Link Kits


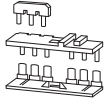
	For Use with...	Pkg. Qty. ^②	Catalog Number
	XTCE007B–XTCE015B	1	XTCEXRLB ^④
	XTCE018C–XTCE032C	1	XTCEXRLC
	XTCE040D–XTCE065D	1	XTCEXRLD
	XTCE080F–XTCE150G	1	XTCEXRLG

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

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 2.5×10^6 operations and the distance between contactors is 0 mm. For Frames L–N, mechanical lifespan is 5×10^6 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.

Star-Delta (Wye-Delta) Link Kits

	For Use with...	Pkg. Qty. ^②	Catalog Number
	XTCE007B–XTCE015B	1	XTCEXSDLB ^③
	XTCE018C–XTCE032C	1	XTCEXSDLC
	XTCE040D–XTCE072D	1	XTCEXSDLD
	XTCE080F–XTCE095F	1	XTCEXSDLF
	XTCE115G–XTCE150G	1	XTCEXSDLG



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. ^②	Catalog Number
	XTCE007B–XTCE015B	20	XTCEXPBB
	XTCE018C–XTCE032C	20	XTCEXPBC

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

Reversing Bridge

	For Use with...	Pkg. Qty. ^②	Catalog Number
	XTCE007B–XTCE015B	20	XTCEXRBB
	XTCE018C–XTCE032C	20	XTCEXRBC
	XTCE040D–XTCE065D	10	XTCEXRBD

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