

Product Selection

Full Voltage Non-Reversing Miniature Contactors

XTMC_



Maximum UL Ratings—Single-Phase and Three-Phase

Horsepower Ratings

Single-Phase			Three-Phase				Number of Power Poles	Auxiliary Contacts	Screw Terminal Catalog Number ^①
115V	200V	230V	200V	230V	460V	575V			
1/4	3/4	1	1-1/2	2	3	3	3	1NO	XTMC6A10_
1/4	3/4	1	1-1/2	2	3	3	3	1NC	XTMC6A01_
1/2	1	1-1/2	2	3	5	5	3	1NO	XTMC9A10
1/2	1	1-1/2	2	3	5	5	3	1NC	XTMC9A01_
1/2	1	1-1/2	2	3	5	5	4	—	XTMF9A00_

Maximum IEC Ratings AC-3

Operational Current AC-3 Amp Rating 380/400V	Conventional Free Air Thermal Current AC-1 at 50°C	Three-Phase Motors 50–60 Hz				Number of Power Poles	Auxiliary Contacts	Screw Terminal Catalog Number ^①
		220–240V	380–400V	550V	660/690V			
6.6	20	1.5	3	3	3	3	1NO	XTMC6A10_
6.6	20	1.5	3	3	3	3	1NC	XTMC6A01_
8.8	20	2.2	4	4	4	3	1NO	XTMC9A10
8.8	20	2.2	4	4	4	3	1NC	XTMC9A01_
8.8	20	2.2	4	4	4	4	—	XTMF9A00_

Magnet Coil Suffix

Coil Voltage	Suffix Code	Coil Voltage	Suffix Code	Coil Voltage	Suffix Code	Coil Voltage	Suffix Code
110V 50 Hz, 120V 60 Hz	A	415V 50 Hz, 480V 60 Hz	C	380V 60 Hz	P	120 Vdc	AD
220V 50 Hz, 240V 60 Hz	B	550V 50 Hz, 600V 60 Hz	D ^③	12V 50/60 Hz	R ^③	220 Vdc	BD
230V 50 Hz	F	208V 60 Hz	E	42V 50 Hz, 48V 60 Hz	W	12 Vdc	RD
24V 50/60 Hz	T	190V 50 Hz, 220V 60 Hz	G	48V 50 Hz	Y	48 Vdc	WD
24 Vdc	TD ^②	240V 50 Hz, 277V 60 Hz	H	—	—	—	—
—	—	380V 50 Hz, 440V 60 Hz	L	—	—	—	—

Notes

IEC Utilization Categories, see **Page V5-T1-244**.

AC-1: Non-inductive or slightly inductive loads.

AC-3: Squirrel cage motors—starting, switching of motors during running.

AC-4: Squirrel cage motors—starting, plugging, inching.

^① Underscore (_) indicates magnetic coil suffix required.

^② With DC operation: Integrated diode resistor combination, coil rating 2.6W.

^③ XTMF four-pole contactor not available with “D” or “R” coil voltage suffix.

Star-Delta (Wye-Delta) Miniature Contactors

XTMC_



Maximum Current UL Ratings—Single-Phase and Three-Phase ①

Horsepower Ratings							Maximum Changeover Time (sec.)	Spare Auxiliary Contacts K1M	Component Description	Catalog Number ②
Single-Phase			Three-Phase							
115V	200V	230V	200V	230V	460V	575V				
1/2	1	1-1/2	2	3	5	7-1/2	30	$\begin{matrix} 21 31 53 \\ -7-1- \\ 22 32 54 \end{matrix}$	K1M main contactor	XTMC9A10
									K1M auxiliary contact	XTMCXFC22
									K5M delta contactor	XTMC9A01_
									K3M star contactor	XTMC9A10
									K3M auxiliary contact	XTMCXFC02
									K1T timing relay	XTTR6A60S51B

Maximum IEC Ratings AC-3 ①

Horsepower Ratings Three-Phase Motors 50–60 Hz			Maximum Changeover Time (sec.)	Spare Auxiliary Contacts K1M	Component Description	Catalog Number ②
220/230/240V	380/400/440V	500V				
4	5.5	5.5	30	$\begin{matrix} 21 31 53 \\ -7-1- \\ 22 32 54 \end{matrix}$	K1M main contactor	XTMC9A10
					K1M auxiliary contact	XTMCXFC22
					K5M delta contactor	XTMC9A01_
					K3M star contactor	XTMC9A10
					K3M auxiliary contact	XTMCXFC02
					K1T timing relay	XTTR6A60S51B

Mini Overload Relay Settings (A)

Setting	Starting
A: $I_N \times 0.58$ Motor protection in the Y and delta configurations.	≤ 15 sec
B: $I_N \times 1$ Only partial motor protection in star position	15–40 sec
C: $I_N \times 0.58$ Motor not protected in star position.	> 40 sec
Timing relay set to approximately 10 sec.	

Notes

Depending on the coordination type required (that is, Type 1 or Type 2) it must be established whether the fuse protection and the input wiring for the main and delta contactors are to be common or separate.

① Operating frequency: 30 starts/hour. See Magnet Coil Suffix table on following page.

② Underscore () indicates magnet coil suffix required.