

## XTMC Miniature Contactor



## Miniature Controls

## Product Description

Eaton's new line of **XT** miniature controls includes non-reversing and reversing mini contactors, mini overload relays and snap-on accessories. A wide range of applications is possible, including small electrical motors from fractional to 5 hp (460 Vac) or up to 4 kW (400 Vac).

## Application Description

Due to its compact size, the **XT** line of mini controls is best suited to be applied in light-duty loads, such as hoisting, packaging, material handling, heating, lighting and automation systems. **XT** mini contactors are a particularly compact, economic and environmentally friendly solution wherever control of small motors or loads is required.


## Features

**Mini Contactors—Types XTMC and XTMF, 6–9A**

- AC control from 12V to 550V 50 Hz, 600V 60 Hz
- DC control from 12V to 220V
- Reversing or non-reversing
- Three- and four-pole configurations
  - Three-pole XTMC
  - Four-pole XTMF
- Panel or DIN rail mounting
- IP20 finger and back-of-hand proof
- Low noise operation
- High degree of climatic proofing
- Large ambient temperature range –25° to 50°C [–13° to 122°F]

## Contents

**Description**

	<b>Page</b>
Relays and Timers .....	<b>V5-T1-3</b>
Miniature Controls	
Catalog Number Selection .....	<b>V5-T1-19</b>
Product Selection .....	<b>V5-T1-20</b>
Accessories .....	<b>V5-T1-24</b>
Technical Data and Specifications .....	<b>V5-T1-27</b>
Wiring Diagrams .....	<b>V5-T1-32</b>
Dimensions .....	<b>V5-T1-34</b>
 An Eaton Green Solution	
Contactors and Starters .....	<b>V5-T1-35</b>
Thermal Overload Relays .....	<b>V5-T1-128</b>
C440/ <b>XT</b> Electronic Overload Relay .....	<b>V5-T1-141</b>
Manual Motor Protectors .....	<b>V5-T1-157</b>
Combination Motor Controllers .....	<b>V5-T1-193</b>
<b>XT</b> Electronic Manual Motor Protector .....	<b>V5-T1-216</b>
EMS—Electronic Motor Starter .....	<b>V5-T1-229</b>
Reference Data .....	<b>V5-T1-231</b>

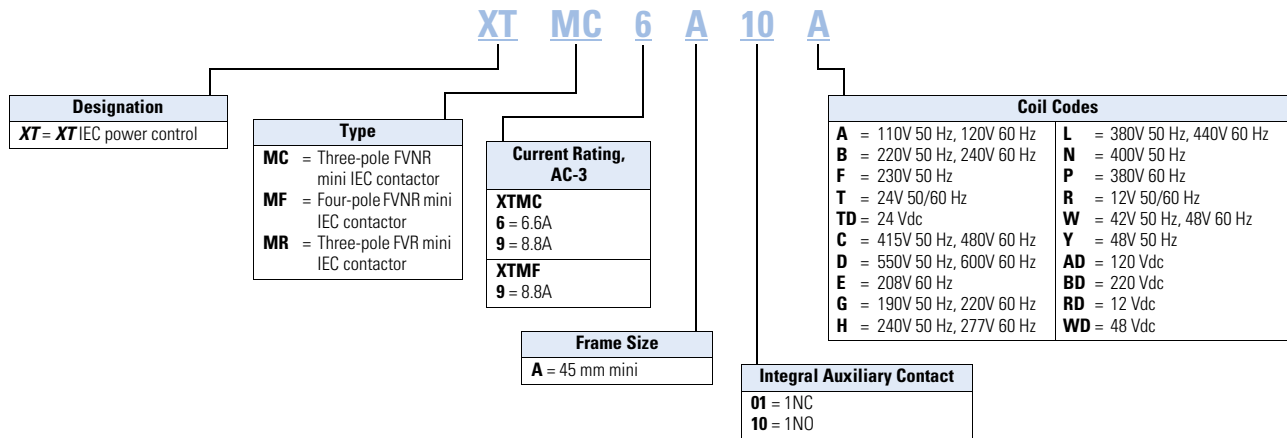
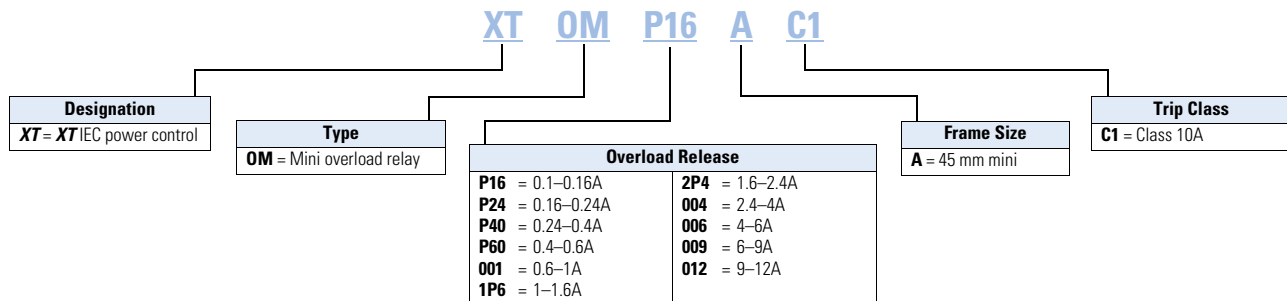
## Standards and Certifications

- IEC EN 60947
- CE approved
- UL
- CSA
- CCC
- ATEX



**Instructional Leaflets**

Pub51219	XTMC, XTMF Mini Contactors, XTRM Mini Control Relay and Accessories
Pub51243	XTOM Mini Overload Relays
Pub51206	Mini Reversing Link Kits
MN03402002E	XTOM Mini Overload Relays Installation and User Manual

**Catalog Number Selection****XT IEC Miniature Contactors****XT IEC Miniature Overload Relays**

### 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 <sup>①</sup>
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 <sup>①</sup>
		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	<b>A</b>	415V 50 Hz, 480V 60 Hz	<b>C</b>	380V 60 Hz	<b>P</b>	120 Vdc	<b>AD</b>
220V 50 Hz, 240V 60 Hz	<b>B</b>	550V 50 Hz, 600V 60 Hz	<b>D</b> <sup>③</sup>	12V 50/60 Hz	<b>R</b> <sup>③</sup>	220 Vdc	<b>BD</b>
230V 50 Hz	<b>F</b>	208V 60 Hz	<b>E</b>	42V 50 Hz, 48V 60 Hz	<b>W</b>	12 Vdc	<b>RD</b>
24V 50/60 Hz	<b>T</b>	190V 50 Hz, 220V 60 Hz	<b>G</b>	48V 50 Hz	<b>Y</b>	48 Vdc	<b>WD</b>
24 Vdc	<b>TD</b> <sup>②</sup>	240V 50 Hz, 277V 60 Hz	<b>H</b>	—	—	—	—
—	—	380V 50 Hz, 440V 60 Hz	<b>L</b>	—	—	—	—

#### 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.

## XTMC Miniature Contactor



## Miniature Controls

## Product Description

Eaton's new line of **XT** miniature controls includes non-reversing and reversing mini contactors, mini overload relays and snap-on accessories. A wide range of applications is possible, including small electrical motors from fractional to 5 hp (460 Vac) or up to 4 kW (400 Vac).

## Application Description

Due to its compact size, the **XT** line of mini controls is best suited to be applied in light-duty loads, such as hoisting, packaging, material handling, heating, lighting and automation systems. **XT** mini contactors are a particularly compact, economic and environmentally friendly solution wherever control of small motors or loads is required.


## Features

**Mini Contactors—Types XTMC and XTMF, 6–9A**

- AC control from 12V to 550V 50 Hz, 600V 60 Hz
- DC control from 12V to 220V
- Reversing or non-reversing
- Three- and four-pole configurations
  - Three-pole XTMC
  - Four-pole XTMF
- Panel or DIN rail mounting
- IP20 finger and back-of-hand proof
- Low noise operation
- High degree of climatic proofing
- Large ambient temperature range –25° to 50°C [–13° to 122°F]

## Contents

**Description**

	<b>Page</b>
Relays and Timers .....	<b>V5-T1-3</b>
Miniature Controls	
Catalog Number Selection .....	<b>V5-T1-19</b>
Product Selection .....	<b>V5-T1-20</b>
Accessories .....	<b>V5-T1-24</b>
Technical Data and Specifications .....	<b>V5-T1-27</b>
Wiring Diagrams .....	<b>V5-T1-32</b>
Dimensions .....	<b>V5-T1-34</b>
 An Eaton Green Solution	
Contactors and Starters .....	<b>V5-T1-35</b>
Thermal Overload Relays .....	<b>V5-T1-128</b>
C440/ <b>XT</b> Electronic Overload Relay .....	<b>V5-T1-141</b>
Manual Motor Protectors .....	<b>V5-T1-157</b>
Combination Motor Controllers .....	<b>V5-T1-193</b>
<b>XT</b> Electronic Manual Motor Protector .....	<b>V5-T1-216</b>
EMS—Electronic Motor Starter .....	<b>V5-T1-229</b>
Reference Data .....	<b>V5-T1-231</b>

**Mini Overload Relays—Bimetallic Type XTOM**

- Phase failure sensitivity
- Direct mount to XTMC and XTMF mini contactors
- Trip Class 10
- 11 settings to cover 0.1 to 12A
- Ambient temperature compensated –5° to 50°C [23° to 122°F]
- Manual and automatic reset by selector switch
- One make (NO) or one break (NC) auxiliary contact as standard
- Test/Off button
- Trip-free release

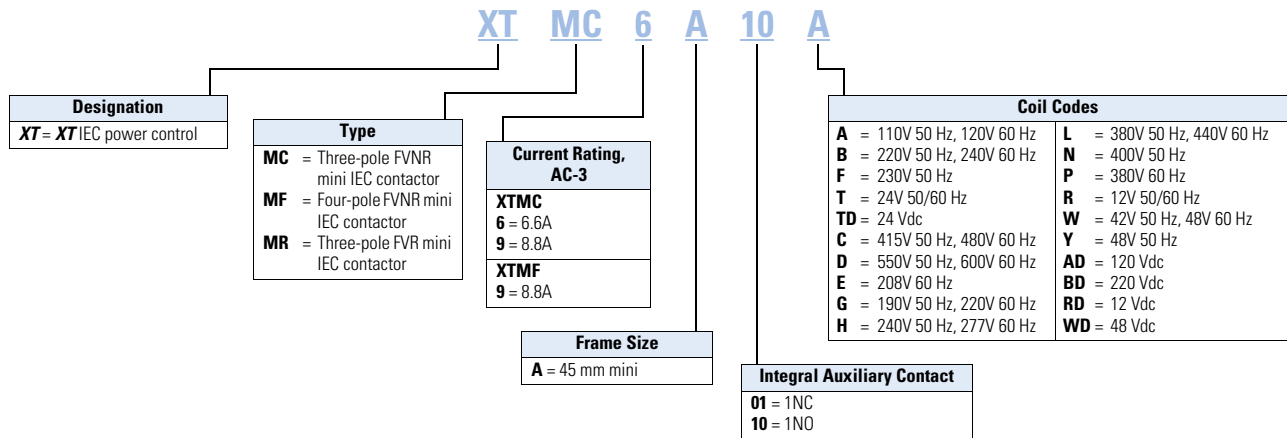
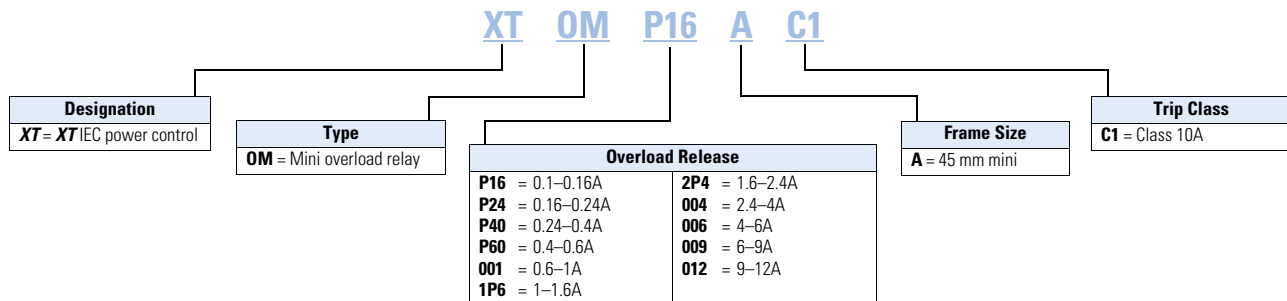
## Standards and Certifications

- IEC EN 60947
- CE approved
- UL
- CSA
- CCC
- ATEX



**Instructional Leaflets**

Pub51219	XTMC, XTMF Mini Contactors, XTRM Mini Control Relay and Accessories
Pub51243	XTOM Mini Overload Relays
Pub51206	Mini Reversing Link Kits
MN03402002E	XTOM Mini Overload Relays Installation and User Manual

**Catalog Number Selection****XT IEC Miniature Contactors****XT IEC Miniature Overload Relays**

### 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 <sup>①</sup>
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 <sup>①</sup>
		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	<b>A</b>	415V 50 Hz, 480V 60 Hz	<b>C</b>	380V 60 Hz	<b>P</b>	120 Vdc	<b>AD</b>
220V 50 Hz, 240V 60 Hz	<b>B</b>	550V 50 Hz, 600V 60 Hz	<b>D</b> <sup>③</sup>	12V 50/60 Hz	<b>R</b> <sup>③</sup>	220 Vdc	<b>BD</b>
230V 50 Hz	<b>F</b>	208V 60 Hz	<b>E</b>	42V 50 Hz, 48V 60 Hz	<b>W</b>	12 Vdc	<b>RD</b>
24V 50/60 Hz	<b>T</b>	190V 50 Hz, 220V 60 Hz	<b>G</b>	48V 50 Hz	<b>Y</b>	48 Vdc	<b>WD</b>
24 Vdc	<b>TD</b> <sup>②</sup>	240V 50 Hz, 277V 60 Hz	<b>H</b>	—	—	—	—
—	—	380V 50 Hz, 440V 60 Hz	<b>L</b>	—	—	—	—

#### 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.