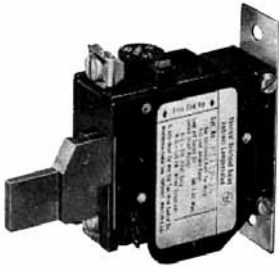


### Type FT Fast Trip, Class 10 Overload Relay



*Single-Pole Fast Trip, Panel Mounted*



*Three-Pole Fast Trip, Panel Mounted*

#### Application Description

The Type FT overload relay is designed to protect special purpose motors having restricted thermal and locked rotor capabilities. Using modern block-type, bimetallic design, this relay will provide Class 10 operation in single-phase or three-phase applications.

#### Features

- Class 10—600V design
- Inverse time delay trip
- Color-coded reset rod—green
- Alarm contact factory available
- Field selectable manual/auto reset
- Adjustable trip rating  $\pm 20\%$
- Ambient compensation included

#### Operation

The Type FT overload relay is a bimetallic actuated device. The bimetal elements are operated directly from line current, thus separate calibrating heater elements are not used. The overload relay may be wired directly in the motor circuit, or through current transformers on applications larger than 150A.

As the bimetals are heated by motor current flow, a deflection is produced. Upon a sustained level of abnormal current flow, the deflection becomes great enough to open the snap action output contact.

#### Overload Relay Selection Table

For replacement in existing applications only.

Motor Full Load Amperes	Panel Mounted Catalog Number		Starter Mounted Catalog Number <sup>①</sup>	
	Single-Pole <sup>①</sup>	Three-Pole <sup>②</sup>	NEMA Size	Single-Pole
<b>Single-Pole (One NC Contact); Three-Phase (Three NC Contacts in Series)</b>				
0.76–1.1	FT11P-1.1	FT13P-1.1	—	FT11A-1.1
1.1–1.6	FT11P-1.6	FT13P-1.6	—	FT11A-1.6
1.6–2.4	FT11P-2.4	FT13P-2.4	0, 1	FT11A-2.4
2.4–3.6	FT11P-3.6	FT13P-3.6	0, 1	FT11A-3.6
3.6–5.4	FT11P-5.4	FT13P-5.4	0, 1	FT11A-5.4
5.4–8.0	FT11P-8	FT13P-8	0, 1	FT11A-8
8.0–12	FT11P-12	FT13P-12	0, 1	FT11A-12
12–18	FT11P-18	FT13P-18	1	FT11A-18
16–24	FT11P-24	FT13P-24	1	FT11A-24
22–32	FT11P-32	FT13P-32	0, 1	FT11A-32
24–36	FT21P-36	FT23P-36	2	FT21A-36
36–54	FT21P-54	FT23P-54	2	FT21A-54
22–32	FT31P-32	FT33P-32	3	FT31A-32
32–48	FT31P-48	FT33P-48	3	FT31A-48
48–72	FT31P-72	FT33P-72	3	FT31A-72
72–110	FT41P-110	FT43P-110	4	FT41A-110
100–150	FT41P-150	FT43P-150	4	FT41A-150

#### Notes

<sup>①</sup> Single-pole (one NO–NC contact): Add suffix B.

<sup>②</sup> Three-pole (three NO–NC contacts): Add suffix B. Example: **FT13PB-12**.

Alarm contact available only as factory modification on FT relay.

## IEC Sizes L, M and N

Description		IEC Size L Part Number	IEC Size M Part Number	IEC Size N Part Number
<b>Contact Kits</b>				
Two-pole		6-43-3	6-43	6-43-5
Three-pole		6-43-4	6-43-2	6-43-6
Four-pole		—	—	—
Five-pole		—	—	—
<b>Magnet Coils</b>	<b>Coil Suffix</b>			
120V, 60 Hz or 110V, 50 Hz	A	9-2756-1	9-2756-1	9-2756-1
240V, 60 Hz or 220V, 50 Hz	B	9-2756-2	9-2756-2	9-2756-2
480V, 60 Hz or 440V, 50 Hz	C	9-2756-3	9-2756-3	9-2756-3
600V, 60 Hz or 550V, 50 Hz	D	9-2756-4	9-2756-4	9-2756-4
208V, 60 Hz	E	9-2756-5	9-2756-5	9-2756-5
277V, 60 Hz	H	9-2756-9	9-2756-9	9-2756-9
240V, 50 Hz	K	9-2756-13	9-2756-13	9-2756-13
380–415V, 50 Hz	L	—	—	—
380V, 50 Hz	L	9-2756-12	9-2756-12	9-2756-12
415V, 50 Hz	M	9-2756-8	9-2756-8	9-2756-8
550V, 50 Hz	N	9-2756-14	9-2756-14	9-2756-14
24V, 60 Hz–24V, 50 Hz	T	—	—	—
24V, 60 Hz	T	9-2756-6	9-2756-6	9-2756-6
24V, 50 Hz	U	9-2756-11	9-2756-11	9-2756-11
32V, 50 Hz	V	9-2756-10	9-2756-10	9-2756-10
48V, 60 Hz	W	9-2756-15	9-2756-15	9-2756-15
48V, 50 Hz	Y	9-2756-7	9-2756-7	9-2756-7
<b>Overload Relays</b>				
For replacement on existing starters three-pole—ambient compensated bimetallic		10-6530	10-6530-2	10-6530-3
<b>Current Transformer</b>				
Transformer		—	—	—
<b>Magnet Frame Armature</b>				
Lower magnet frame		17-8955-2	17-8955-2	17-8955-2
Upper magnet frame		48-1902	48-1902	48-1902