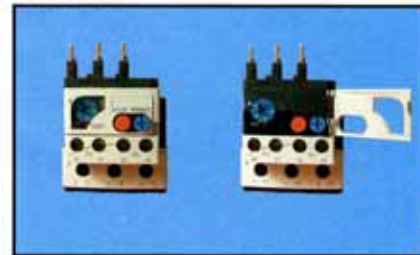


Type ECX Overload Relays

- Reliable Motor Protection
- Precise factory set and tested heaters
- Both N.O. (Alarm) and N.C. (trip) Contacts
- Plug on / bolt on to contactor design
- Tolerance short circuit 5KA RMS SYM.,600V Max
- Ambient compensated overloads from -4°f to + 122°f permitting no false tripping within temp range.
- Sealable setting overload for critical applications
- Nema Class 10 design for "T" frame motors
- Accepts Ring Terminals up to 36 Amps

Type ECX Plug on Mount to Contactor Amp Range is included in Overload Part

Part#	List Price	Plugs into Contactors
ECX - 4-.63A	\$ 30.00	ECX 18 + ECX 32
ECX -.63-1A	\$ 30.00	
ECX - 1-1.6A	\$ 30.00	
ECX - 1.25-2A	\$ 30.00	
ECX -1.6-2.5A	\$ 30.00	
ECX -2.5-4A	\$ 30.00	
ECX -4-6A	\$ 30.00	
ECX -5.5-8A	\$ 30.00	
ECX -7-10A	\$ 30.00	
ECX -9-13A	\$ 30.00	
ECX -12-18A	\$ 30.00	
ECX -17-25A	\$ 30.00	
ECX -23-32A	\$ 38.00	ECX 32
ECX -28-36A	\$ 38.00	
ECX95-23-32A	\$ 52.00	ECX 65 ECX 95
ECX -30-40A	\$ 52.00	
ECX -37-50A	\$ 52.00	
ECX -48-65A	\$ 52.00	
ECX -63-80A	\$ 52.00	
ECX -80-93A	\$ 52.00	



Closed **Sealable Overload**
ECX23 - 32A **Amp Setting**
 Window Open

Overload Relay Features

- 1) Trip indicator window (turns yellow when tripped)
- 2) Stop button opens N.C. contacts 95/96
- 3) Depressing the test button causes the yellow indicator to appear, and changes the contacts to their opposite state (N.O. closes + N.C. opens). The reset button then changes them back.
- 4) Reset button resets a tripped overload.

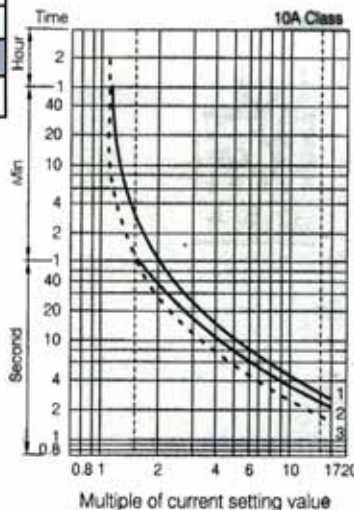
**For separate mounting (independent overload without contactor) up to 36 Amps , add "S" to part # :
Up to 36 Amps add \$10.00 list to part # Example:\$ 38.00 + \$ 10.00=\$48.00. ECX 28-36AS**

Separate Mount Accessories

Part #	For overload Range	List Price
ECX - AD 25A	0.4 Amp to ECX 17 -25 A	10.00
ECX - AD 36A	ECX 23 - 32 + ECX 28 -36 A	10.00
ECX - AD 93A	ECX 30-40 up to ECX 80 - 93A	20.00

Separate Mounted Overload Dimensions (mm)

Part #	Amp Range	Height	Width	Depth
ECX .4 - .63 AS- ECX 7 - 10 AS-	0.4 - 10A	83	45	75
ECX -9 - 13 AS ECX -17 - 25 AS	9 - 25A	72	45	100
ECX -23 - 32 AS ECX -28 - 36 AS	23 - 36A	90	55	100
ECX 95 - 23 - 32AS	23 - 32A	105	75	125
ECX 30 - 40 AS ECX 80 - 93 AS	30 - 93A	105	75	125



Protection Curve

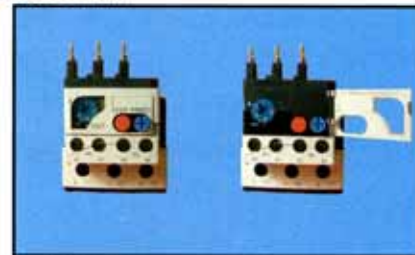
1. Balance operation, three phase, start from the cold status.
2. Balance operation, two phase, start from the cold status.
3. Balance operation, three phase, start from the heat status.

Type ECX Overload Relays

- Reliable Motor Protection
- Precise factory set and tested heaters
- Both N.O. (Alarm) and N.C. (trip) Contacts
- Plug on / bolt on to contactor design
- Tolerance short circuit 5KA RMS SYM.,600V Max
- Ambient compensated overloads from -4°F to + 122°F permitting no false tripping within temp range.
- Sealable setting overload for critical applications
- Nema Class 10 design for "T" frame motors
- Accepts Ring Terminals up to 36 Amps

Type ECX Plug on Mount to Contactor Amp Range is included in Overload Part

Part#	List Price	Plugs into Contactors	
ECX - .4-.63A	\$ 30.00	ECX 18 + ECX 32	
ECX -.63-1A	\$ 30.00		
ECX - 1-1.6A	\$ 30.00		
ECX - 1.25-2A	\$ 30.00		
ECX -1.6-2.5A	\$ 30.00		
ECX -2.5-4A	\$ 30.00		
ECX -4-6A	\$ 30.00		
ECX -5.5-8A	\$ 30.00		
ECX -7-10A	\$ 30.00		
ECX -9-13A	\$ 30.00		
ECX -12-18A	\$ 30.00		
ECX -17-25A	\$ 30.00		
ECX -23-32A	\$ 38.00		ECX 32
ECX -28-36A	\$ 38.00		
ECX95-23-32A	\$ 52.00	ECX 65 ECX 95	
ECX -30-40A	\$ 52.00		
ECX -37-50A	\$ 52.00		
ECX -48-65A	\$ 52.00		
ECX -63-80A	\$ 52.00		
ECX -80-93A	\$ 52.00		



Closed ECX23 - 32A Sealable Overload Amp Setting Window Open

Overload Relay Features

- 1) Trip indicator window (turns yellow when tripped)
- 2) Stop button opens N.C. contacts 95/96
- 3) Depressing the test button causes the yellow indicator to appear ,and changes the contacts to their opposite state (N.O. closes + N.C. opens). The reset button then changes them back.
- 4) Reset button resets a tripped overload.

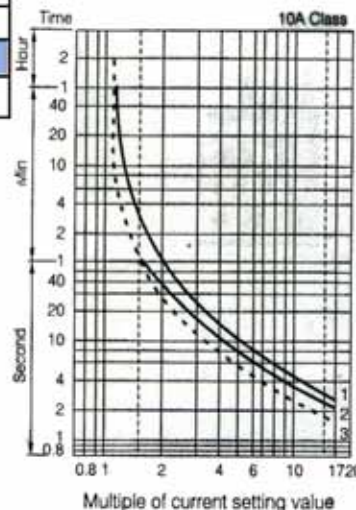
For separate mounting (independent overload without contactor) up to 36 Amps , add "S" to part # : Up to 36 Amps add \$10.00 list to part # Example:\$ 38.00 + \$ 10.00=\$48.00. ECX 28-36AS

Separate Mount Accessories

Part #	For overload Range	List Price
ECX - AD 25A	0.4 Amp to ECX 17 -25 A	10.00
ECX - AD 36A	ECX 23 - 32 + ECX 28 -36 A	10.00
ECX - AD 93A	ECX 30-40 up to ECX 80 - 93A	20.00

Separate Mounted Overload Dimensions (mm)


Part #	Amp Range	Height	Width	Depth
ECX .4 - .63 AS- ECX 7 - 10 AS-	0.4 - 10A	83	45	75
ECX -9 - 13 AS ECX -17 - 25 AS	9 - 25A	72	45	100
ECX -23 - 32 AS ECX -28 - 36 AS	23 - 36A	90	55	100
ECX 95 - 23 - 32AS	23 - 32A	105	75	125
ECX 30 - 40 AS ECX 80 - 93 AS	30 - 93A	105	75	125



Protection Curve

1. Balance operation, three phase, start from the cold status.
2. Balance operation, two phase, start from the cold status.
3. Balance operation, three phase, start from the heat status.

Type TECX 3 Phase Motor Starters

 460V Motor FLA	Horse Power Ratings 3 Phase Motor		OPEN	NEMA 1 General Purpose (metal)	NEMA4X Hose Dust Tight (non metal)	NEMA 4/12 (metal)	NEMA 3R Hose + Dust Tight Outdoor (metal)
	Volts	HP					
14A	200V	7 1/2	TECX 18 - * 0 - ⊕ \$65.00	TECX 18 - * 1 - ⊕ \$158.00	TECX 18 - * 4X - ⊕ \$178.00	TECX 18 - * 4 - ⊕ \$218.00	TECX 18 - * 3R - ⊕ \$218.00
	230V	7 1/2					
	480V	10					
	600V	10					
	Volts	HP					
27A	200V	10	TECX 32 - * 0 - ⊕ \$90.00	TECX 32 - * 1 - ⊕ \$168.00	TECX 32 - * 4X - ⊕ \$192.00	TECX 32 - * 4 - ⊕ \$228.00	TECX 32 - * 3R - ⊕ \$196.00
	230V	15					
	480V	20					
	600V	20					
	Volts	HP					
52A	200V	20	TECX 65 - * 0 - ⊕ \$150.00	TECX 65 - * 1 - ⊕ \$215.00	TECX 65 - * 4X - ⊕ \$236.00	TECX 65 - * 4 - ⊕ \$296.00	TECX 65 - * 3R - ⊕ \$268.00
	230V	25					
	480V	40					
	600V	40					
	Volts	HP					
65A	200V	30	TECX 95 - * 0 - ⊕ \$216.00	TECX 95 - * 1 - ⊕ \$326.00	TECX 95 - * 4X - ⊕ \$362.00	TECX 95 - * 4 - ⊕ \$364.00	TECX 95 - * 3R - ⊕ \$330.00
	230V	30					
	480V	50					
	600V	50					
	Volts	HP					

Pushbuttons and Transformers.
for starters see page
Accessories p.38

*Coil Voltage Suffix	
* - Add Suffix	AC Voltage
-A	= 120V
-C	= 230V/208V
-E	= 480V
-F	= 600V
-D	= 380V
-G	= 24V
-H	= 280V

PART # EXAMPLE :
TECX 18 - A1-10A
TECX = ECX 18 Contactor
A = 120 VAC Coil
1 = NEMA 1 Enclosure
10A = 7-10 AMP Overload

⊕ Add to Part #	Overload Amp Range
.63A	-.4 - .63A
-1A	-.63 - 1A
1.6A	-1 - 1.6A
-2A	-1.25 - 2A
-2.5	-1.6 - 2.5A
-4A	-2.5 - 4A
-6A	-4 - 6A
-8A	-5.5 - 8A
-10A	-7 - 10A
-13A	-9 - 13A
-18A	-12 - 18A
-25A	-17 - 25A
-32A	-23 - 32A
-36A	-28 - 36A
-40A	-30 - 40A
-50A	-37 - 50A
-65A	-48 - 65A
-80A	-63 - 80A
-93A	-80 - 93A

Dimensions for TECX Starters			
mm/inches	H	x W	x D
TECX 18	118 (4.65")	45 (1.77")	100 (3.94")
TECX 32	140 (5.51")	56 (2.20")	100 (3.94")
TECX 65	180 (7.09")	75 (2.95")	126 (4.96")
TECX 95	180 (7.09")	80 (3.15")	130 (5.12")



