



## WARNING

HAZARDOUS VOLTAGE WILL CAUSE DEATH OR SERIOUS INJURY. TO AVOID ELECTRICAL SHOCK OR BURN TURN OFF MAIN AND CONTROL VOLTAGES BEFORE PERFORMING INSTALLATION OR MAINTENANCE

## ADVERTENCIA

VOLTAGES PELIGROSOS PUEDEN CAUSAR MUERTE O SERIAS LESIONES. PARA EVITAR SHOCK ELECTRICO O QUEMADURAS DESCONECTAR LOS VOLTAGES DE FUERZA Y CONTROL ANTES DE INSTALACION O MANTENIMIENTO

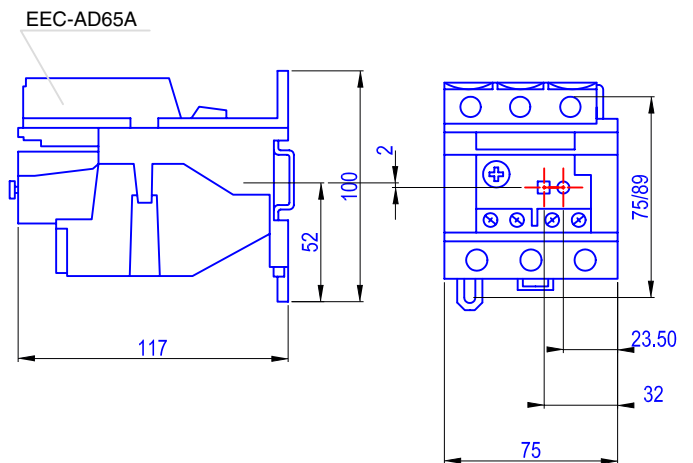
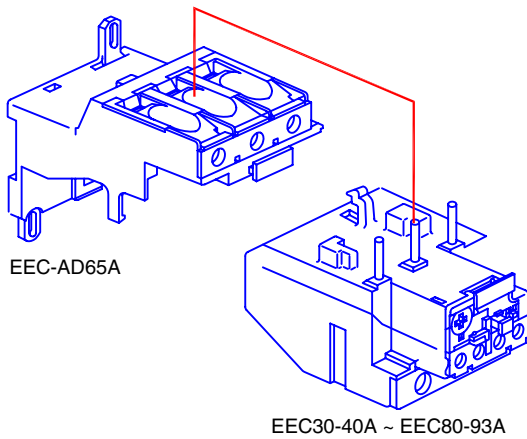
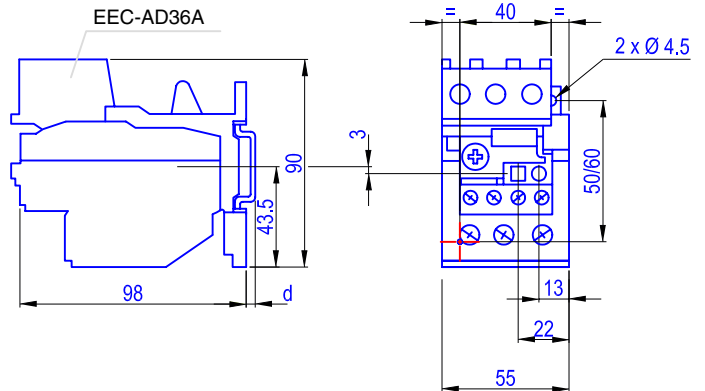
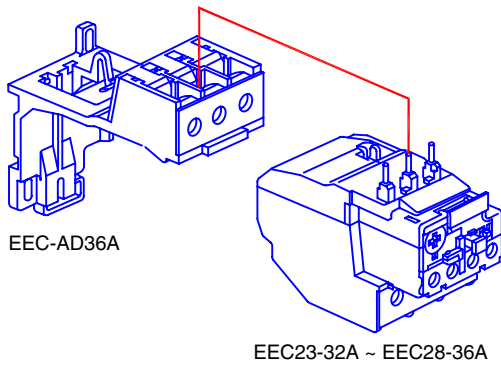
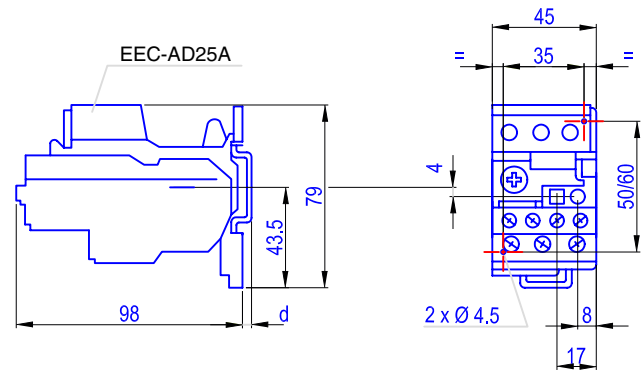
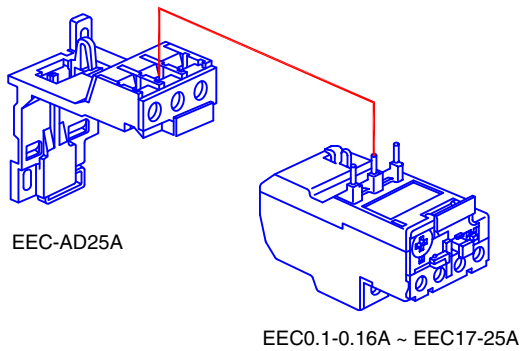
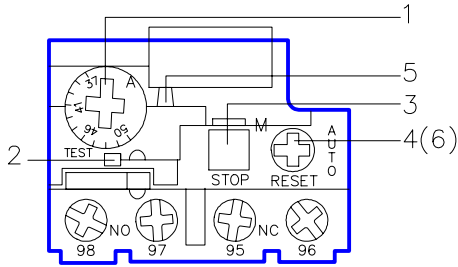


Figure 1 EEC Series Overload Relays + Accessories

Figure 2 EEC Series Overload Relays + Accessories Mounting Dimensions

# OVERLOAD RELAY FUNCTION



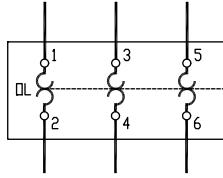
EEC overloads are designed to protect motors against overloads, phase failure, long starting times and prolonged stalling of the motor.

- 1 Overload Adjustment dial *I<sub>r</sub>*
- 2 Test button  
Simulates test trip position by opening the NC contact and closing the NO contact.
- 3 Stop button  
Opens NC contact, does not affect NO contact
- 4 Reset Button  
Reset the contacts to default setting 95/96 closed and 97/98 opened
- 5 Trip indicator  
Indicates overload is in a tripped state
- 6 Selection for Manual/Automatic Reset  
Manual Setting.- The resetting of the overload is done by depressing the reset manually  
Auto Reset.- With the selector 4 adjusted to Auto, the overload will reset automatically after cooling of the metallic windings (CAUTION)

# TECHNICAL DATA

**MAIN CONTACTS**  
Trip Class 10  
IEC 60947-4-1, UL, CSA, U<sub>i</sub> = 690Volt

**AUXILIARY CONTACTS**  
I<sub>th</sub> = 5A, V<sub>max</sub> = 600V UL, CSA, Short Circuit Protection, Max 5A, when protected by gB or BS fuse, GB2 Circuit Breaker



- 1 Three Poles Equally Loaded Cold State
- 2 Two Poles Equally Loaded from Cold State
- 3 Three Poles Equally Loaded from Hot State

# TIME CURRENT CURVE

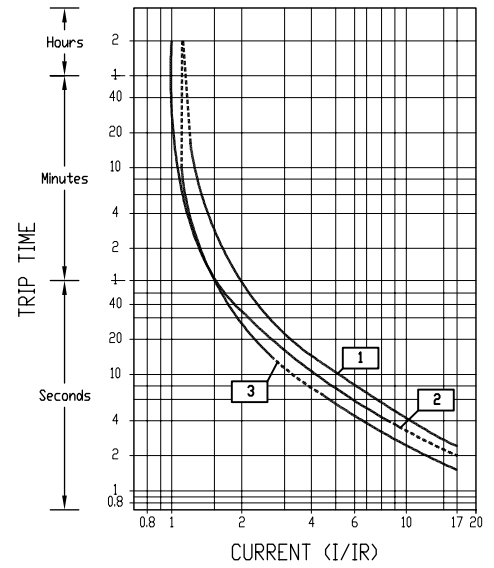


Figure 3 Trip characteristic of the three pole thermal overload relay

CATALOG NUMBER	CURRENT RANGE	FUSE RATING am(A)	g(L(A)	FOR USE W/ CONTACTOR
EEC 0.1-0.16A	0.1-0.16A	0.25	2	EEC 12
EEC 0.16-0.25A	0.16-0.25A	0.5	2	
EEC 0.25-0.4A	0.25-0.4A	1	2	
EEC 0.4-0.63A	0.4-0.63A	1	2	
EEC 0.63-1A	0.63-1A	2	4	
EEC 1-1.6A	1-1.6A	2	4	
EEC 1.6-2.5A	1.6-2.5A	4	6	
EEC 2.5-4A	2.5-4A	6	10	
EEC 4-6A	4-6A	8	16	EEC 25
EEC 5.5-8A	5.5-8A	12	20	
EEC 7-10A	7-10A	12	20	
EEC 9-13A	9-13A	16	25	
EEC 12-18A	12-18A	20	35	EEC 32
EEC 17-25A	17-25A	25	50	
EEC 23-32A	23-32A	40	63	EEC 40
EEC 28-36A	28-36A	40	80	
EEC 30-40A	30-40A	40	100	EEC 50
EEC 37-50A	37-50A	63	100	
EEC 48-65A	48-65A	63	1000	EEC 65
EEC 55-70A	55-70A	80	125	
EEC 63-80A	63-80A	80	125	EEC 80
EEC 80-93A	80-93A	100	160	

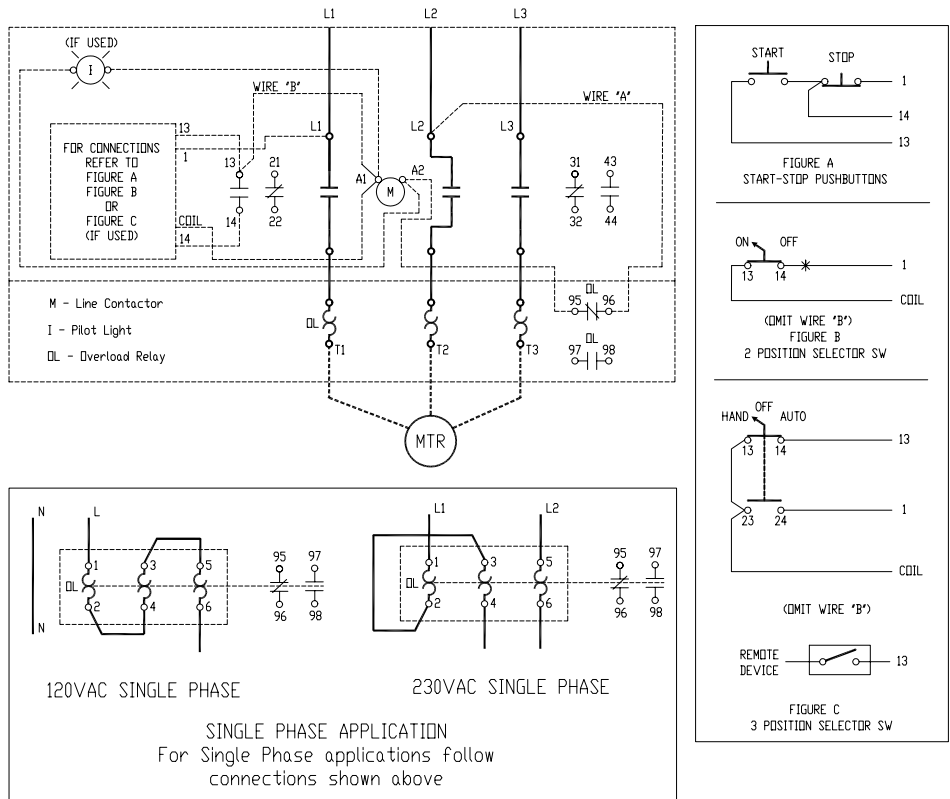


Figure 4 Wiring diagram, HOA, Start-Stop, OFF-ON SW

Table 1 Overload Relay Selection Table