

Electronic Over Current Relay (EOCR)

EOCR 3DE Series



EOCR (Electronics Over Current Relay) is a Motor Protection Relay to protect your electric motor from burn out due to frequent and common problems.

Standard Features

Approval 

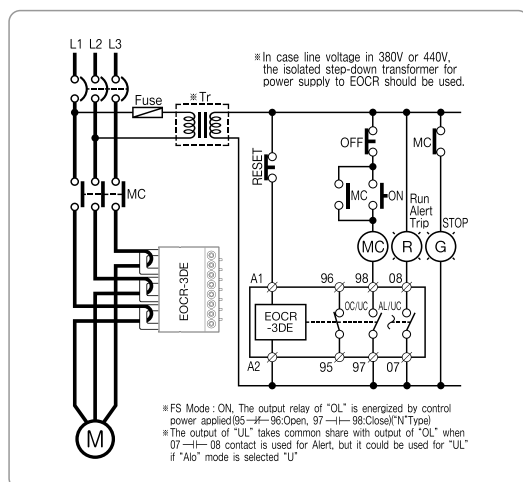
- Digital Display : Trip Cause / Easy Trouble Shooting, MCU (Microprocessor Control Unit) based.
- 3 Integral Current Transformer, Compact Design, Multiple Protection Function
- Wide Current Adjustment Range, High Accuracy, Digital Ammeter, Test Function
- Manual Instantaneous Reset, Electrical Reset < 1 second by interruption of power supply
- Ambient Insensitive
- Low Energy Consumption < 3 W
- Options Fail safe Operation (Type N) or Non Fail safe Operation (Type R)

Specification

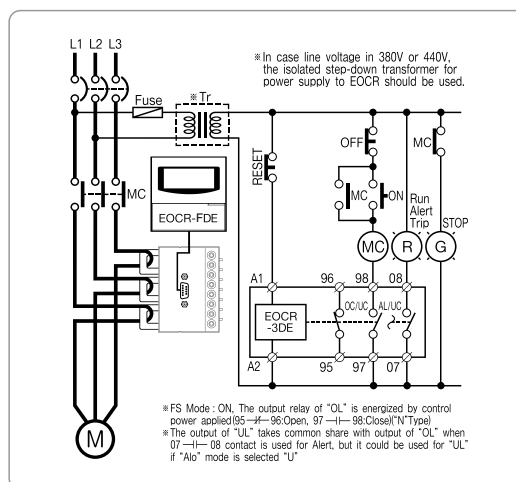
TYPE		3DE	FDE	3EZ	FEZ
Protection	Current Range	0.5 - 60 A			
	Over Current	DEF : 0-Time (0.2 - 30 second)			
	Under Current	DEF : 0.5 - 30 second			
	Phase Loss	3 second			
	Phase Unbalance	8 second			
	Phase Reversal	0.1 - 0.3 second			
	Stall	While motor is working (1.5 - 5 Times OC) ~ 0.5 second after D-Time (1-200 second)			
	Locked Rotor	While motor is starting (2 - 10 Times OC) ~ 0.5 second			
	Ground Fault	-	A : 0.02-3 A, B : 0.2-10A (0.5 - 10 second)		
	Alert Function	50 - 100% / OFF	-		
Mounting Support		35 mm Din rail / Panel Mounting	35 mm Din rail / Panel Flush Mounting		
Output Contact	OL	2-SPST	1-SPST		
	AL/GR	All Relay	Ground Fault Relay		
	Rating	3A / 250 VAC Resistive			
Control Voltage		110 VAC; 220 VAC ; 50 - 60Hz			
Display Type		7 Segment LED			
Dielectric Strenght		2 kV at 50...60 Hz, Insulation Voltage : 600VAC 50/60 Hz			
Environment		Temp : For Operation : -20° - 60° C , For Storage : -30° - 80° C Humidity : 45~85% RH, Non Condensing			
IP Protection		IP 20 IEC 60529			
Weight		3DE / 3EZ : 0.336 kg FDE / FEZ : 0.694 kg			

*(> 60A - 960A) Use External CT Option

Typical Wiring



* 3DE

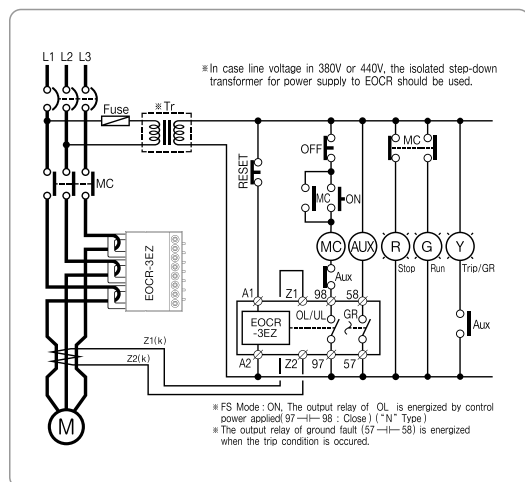


* FDE

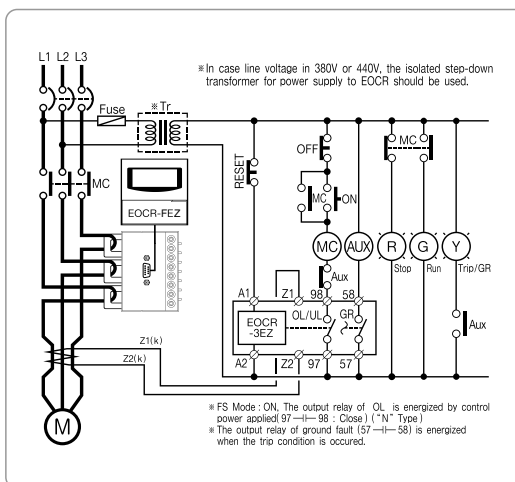
Electronic Over Current Relay (EOCR)

EOCR 3DE Series

Typical Wiring

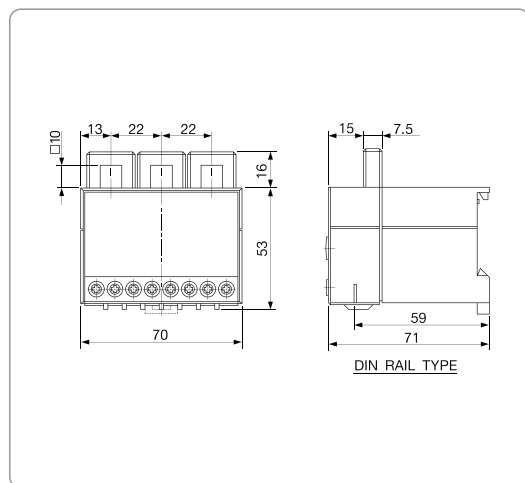


* 3EZ

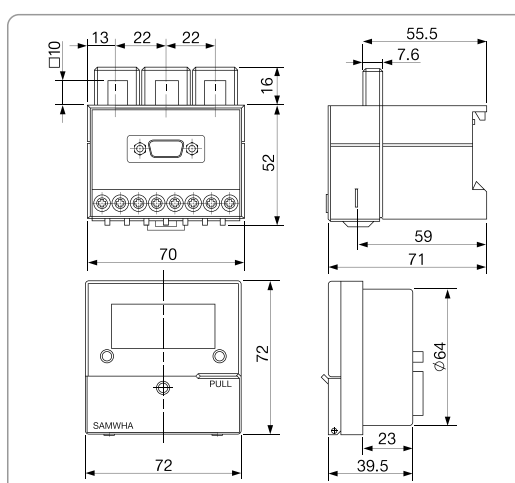


* FEZ

Dimension



* 3DE / 3EZ



* FDE / FEZ

External CT Options / Current Range

Current Setting Range (Amps)	Number of Conductors thru CT windows	External CT Ratio	Setting of CT Ratio OFF(Mode :...)
0.5 ~ 60A	1	-	
0.25 ~ 3.0A	2	-	2t
0.1 ~ 1.2A	5	-	5t
1 ~ 12A	1	10 : 5	10
1.5 ~ 18A	1	15 : 5	15
2.0 ~ 24A	1	20 : 5	20
2.5 ~ 30A	1	25 : 5	25
3.0 ~ 36A	1	30 : 5	30
4.0 ~ 48A	1	40 : 5	40
5 ~ 60A	1	50 : 5	50
6 ~ 72A	1	60 : 5	60
7.5 ~ 90A	1	75 : 5	75
10 ~ 120A	1	100 : 5	100
12 ~ 144A	1	120 : 5	120
15 ~ 180A	1	150 : 5	150
20 ~ 240A	1	200 : 5	200
25 ~ 300A	1	250 : 5	250
30 ~ 360A	1	300 : 5	300
40 ~ 480A	1	400 : 5	400
50 ~ 600A	1	500 : 5	500
60 ~ 720A	1	600 : 5	600
75 ~ 900A	1	750 : 5	750
80 ~ 960A	1	800 : 5	800