

EOCR-SSD

Digital Type Standard Over-current Relay with Ammeter

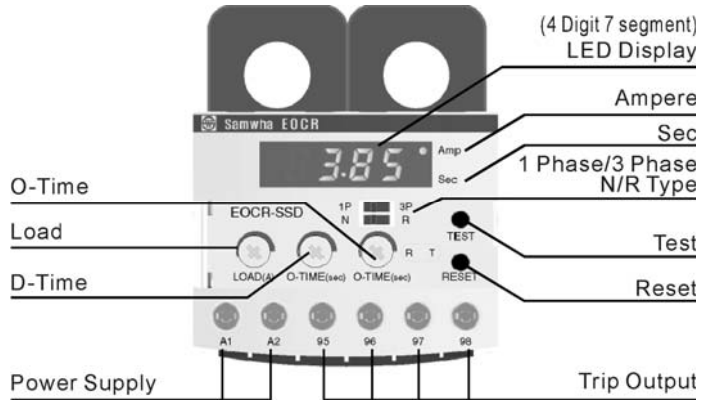
■ Introduction

- Protection functions

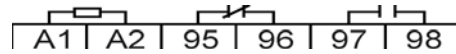
Protection	Operation time	Condition
Over current	Preset O-Time	
Phase-loss	In 3 sec	
Locked Rotor	Within 0.5sec after preset D-time elapsed	In case that OC keeps more than 200% after D-time elapsed

- Over-current range ; 05Type : 0.5~6A
30Type : 3A~30A
60Type : 10A~60A
- Indicates Trip cause
- manual(instant)/ electrical(remote) Reset
- Single phase(1P) / Three phase(3P) Selectable
- Relay Output selectable – Fail safe(N) / Non-fail safe(R)

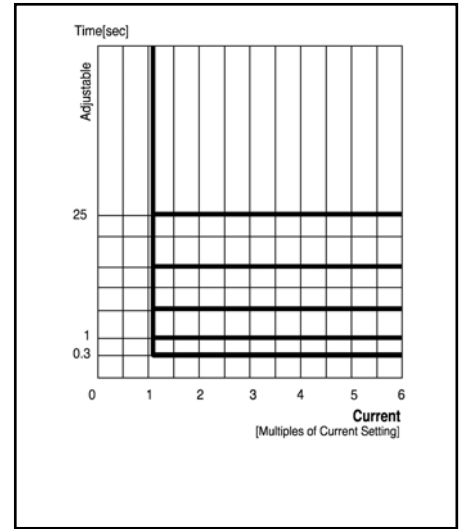
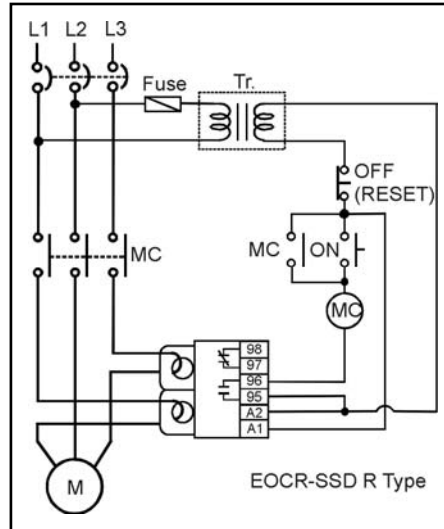
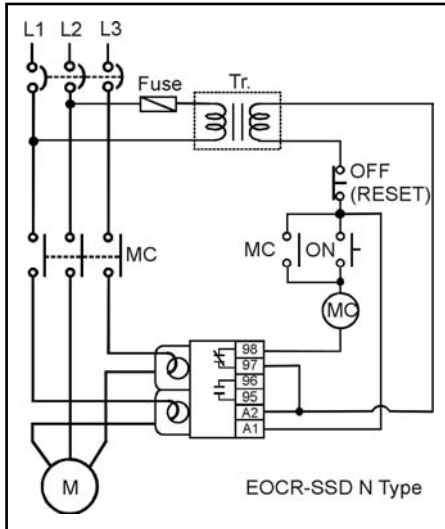
■ Feature



※Terminal Diagram

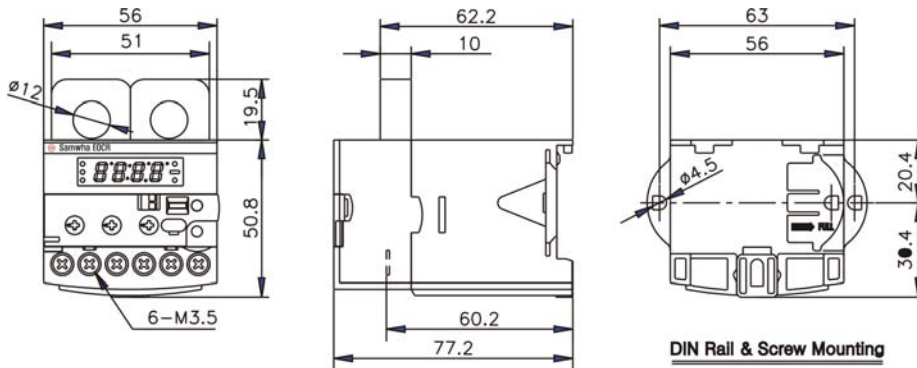


■ Typical Diagram



1 Definite-Time Characteristic of OC

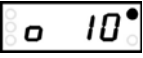
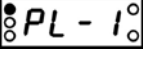
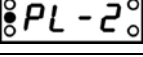
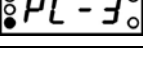
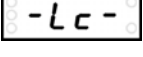
■ Dimension



■ Specification

Current Setting range	Over-current	05	0.5~6A				
		30	3~30A				
		60	10~60A				
	Starting Delay time	D-time	1~30sec				
	Operating Delay time	O-time	0.5/1~10sec				
Reset		Manual (instant) / electrical Reset					
Operating time Characteristic	Over current		Definite time				
Tolerance			Current	±5%	Time	±0.2sec	
Environment	Temperature	Operation	-20℃~60℃				
		Storage	-30℃~80℃				
	Humidity		30~85% RH Non-Condensing				
Power supply		· 220 : 220VAC±15%, 50/60Hz · 110 : 110VAC±15%, 50/60Hz · 24 : 24VAC/DC					
Output Relay	2-SPST(1a1b)		3A/250VAC, Resistive				
Insulation	Between casing and circuit		10MΩ, 500VDC				
Dielectric Strength	Between Casing & Circuits		2.0kV 60Hz, 1min				
	Between Contacts		1.0kV 60Hz, 1min				
	Between Circuits		2.0kV 60Hz, 1min				
Mounting		35mm Din Rail or Panel Mounting					
Power Consumption		Less than 3W					
Electrostatic Discharge	IEC61000-4-2		Level 3 : Air Discharge : ±8kV, Contact Discharge : ±6kV				
Radiated Electromagnetic Field Disturbance	IEC61000-4-3		Level 3 : 10V/m, 150MHz & 450MHz Portable transceiver				
EFT/Burst	IEC61000-4-4		Level 3 : ±2kV, 1min				
Surge	IEC61000-4-5		Level 3 : 1.2X50μs, ±4kV(0°,90°,180°,270°)				
1MHz Burst disturbance	IEC61000-4-12		Level 3 : 2.5kV, 1MHz				
Conducted Emission	IEC60255-25		Class A (Conducted & Radiated)				

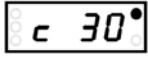
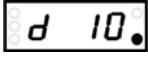
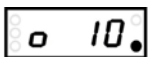
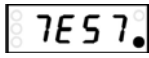
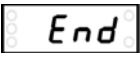
■ Trip display

Trip Cause	LED Indication	Description
Over Current		Tripped after sensing over-current 10A during operation.
Phase Loss		Phase loss of L1(R)
		Phase loss of L2(S)
		Phase loss of L3(T)
Locked Rotor		Tripped after sensing Locked Rotor during starting.

■ How to set

Please Set before motor starting below.

- 1) Over-current : Set the rated motor current of its name plate . For protection of connected machinery with motor, it is recommended to set the 110~115% of real running current after motor current is stabilized.
- 2) Starting Delay Time : Set the expected run-up time of motor by D-time Knob
- 3) Operating Time : Set trip delay time(O-time knob) to desired trip time.

Order	Item	Setting range	FND	DESCRIPTION
1	Over-current Setting	05 Type : 0.5A~6A 30 Type : 3~30A 60 Type : 10A~60A		· Able to set current, preset, operating 0.5A. · 0.5~6A : set by step of 0.1A, · 3~30A : set by step of 1A · 10~60A : set by step of 1A
2	Starting delay time Setting	0.5 ~ 30 sec		
3	Operating Time delay Setting	0.5 ~ 30 sec		
4	TEST	Display END after elapsing 3sec+preset O-time	 3 sec+preset O-Time Cannot do a test during driving.	

■ Odering

Model name								1		2		3	Accessory
E	O	C	R	S	S	D	-	0	5	M	7	B	2CT-D-100

	1		2			3	
	Current Range		Power supply		Frequency	Mounting	
EOCRSSD-05M7B	05 Type	05	220VAC	M	50/60Hz	7	P/D Both P: Panel D: Din Rail
EOCRSSD-30M7B	30 Type	30					
EOCRSSD-60M7B	60 Type	60					
EOCRSSD-05F7B	05 Type	05	110VAC	F	50/60Hz	7	P/D Both P: Panel D: Din Rail
EOCRSSD-30F7B	30 Type	30					
EOCRSSD-60F7B	60 Type	60					
EOCRSSD-05B7B	05 Type	05	24VAC/DC	B	50/60Hz	7	P/D Both P: Panel D: Din Rail
EOCRSSD-30B7B	30 Type	30					
EOCRSSD-60B7B	60 Type	60					

100:5	D1
150:5	DH
200:5	D2
300:5	D3
400:5	D4

※ In case of combination with external CT
Ring CT Type inscribes like as R1, RH, R2...R4
SRCT Type inscribes like as S1, SH, S2..S4

Accessory

2CT					Ratio	RCT					Ratio	SRCT					Ratio
2CT-D-100					100:5	RCT-100					100:5	SR-2CT-100					100:5
2CT-D-150					150:5	RCT-150					150:5	SR-2CT-150					150:5
2CT-D-200	2CT	-	D	-	200:5	RCT-200	RCT	-			200:5	SR-2CT-200	SR	-	2CT	-	200:5
2CT-D-300					300:5	RCT-300					300:5	SR-2CT-300					300:5
2CT-D-400					400:5	RCT-400					400:5	SR-2CT-400					400:5