EOCR-SSD Schneider Electric

Digital Type Standard Over-current Relay with Ammeter
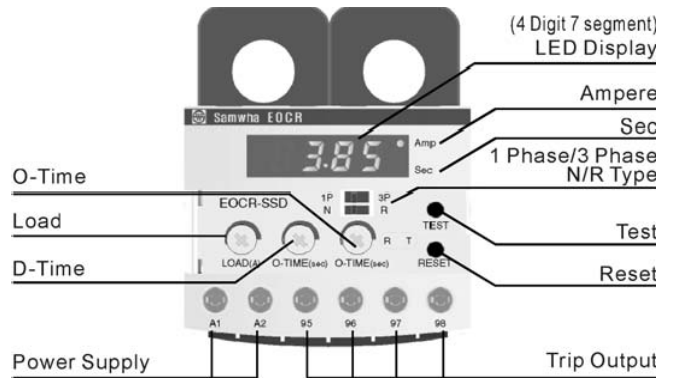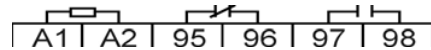
▪ Introduction

· Protection functions

Protection	Operation time	Condition
Over current	Preset O-Time	
Phase-loss	In 3 sec	
Locked Rotor	Within 0.5sec after preset D-timeelapsed	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

· Singlephase(1P) / Three phase(3P) Selectable

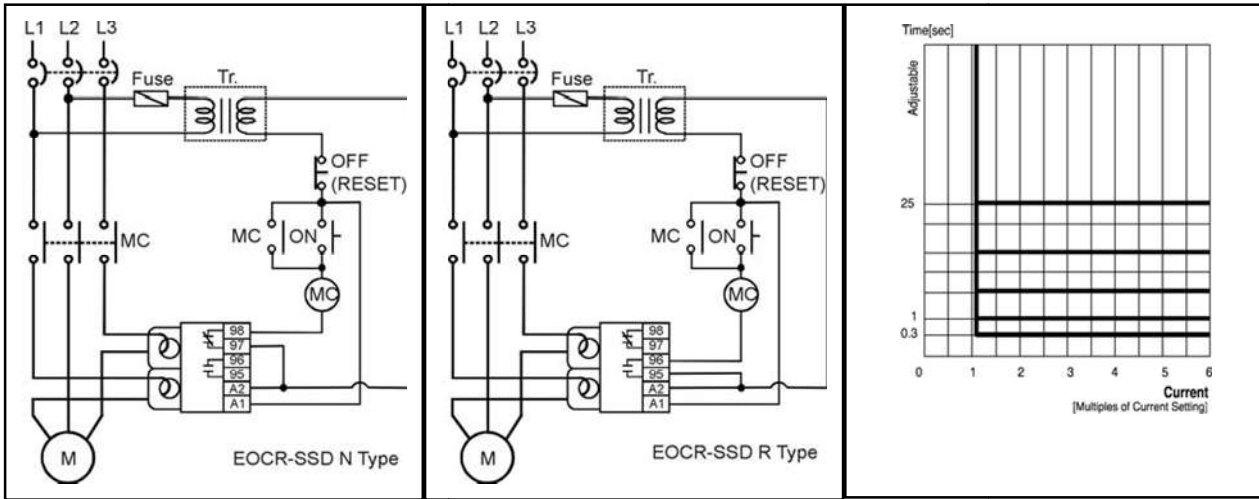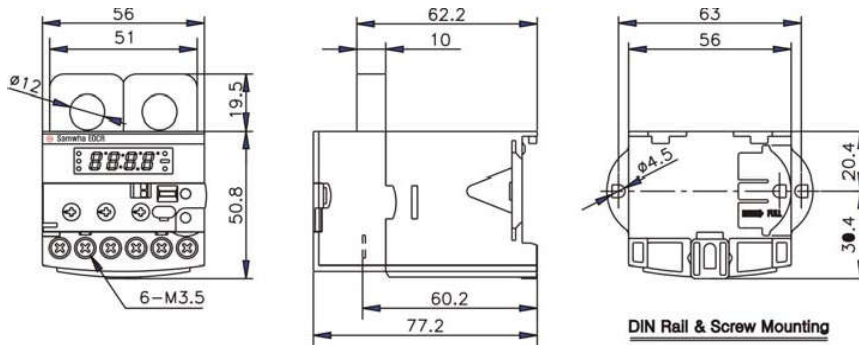· Relay Output selectable – Fail safe(N) / Non-fail safe(R)

▪ Feature

※Terminal Diagram

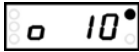| A1	A2	95	96	97	98

▪ Typical Diagram

EOCR-SSD N Type

EOCR-SSD R Type
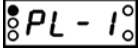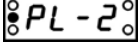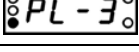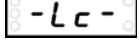
1 Definite-Time Characteristic of OC

▪ Dimension

DIN Rail & Screw Mounting

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)			

Tripdisplay

Trip Cause	LED Indication	Description
Over Current	o 10	Tripped after sensing over-current 10A duringoperation.
Phase Loss	PL - 1	Phase loss of L1(R)
	PL - 2	Phase loss of L2(S)
	PL - 3	Phase loss of L3(T)
Locked Rotor	-Lc-	Tripped after sensing Locked Rotor during starting.

■ How toset

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 isstabilized.

2) Starting Delay Time : Set the expected run-up time of motor by D-timeKnob

3) Operating Time : Set trip delay time(O-time knob) to desired triptime.

Order	Item	Setting range	FND	DESCRIPTION
1	Over-current Setting	05 Type : 0.5A~6A 30 Type : 3~30A 60 Type : 10A~60A	c 30	· Able to set current, preset, operating0.5A. · 0.5~6A :setbystepof 0.1A, · 3~30A :setbystep of 1A · 10~60A :setbystep of 1A
2	Starting delay time Setting	0.5 ~ 30 sec	d 10.	
3	Operating Timedelay Setting	0.5 ~ 30 sec	o 10.	
4	TEST	Display END after elapsing 3sec+presetO-time	7E57. 3sec+presetO-Time End Cannot do a test duringdriving.	

■ 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 **B**
EOCRSSD-30M7B	30 Type **30**				P: Panel
EOCRSSD-60M7B	60 Type **60**				D: DinRail
EOCRSSD-05F7B	05 Type **05**	110VAC	**F**		
EOCRSSD-30F7B	30 Type **30**				
EOCRSSD-60F7B	60 Type **60**				
EOCRSSD-05B7B	05 Type **05**	24VAC/DC	**B**		
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