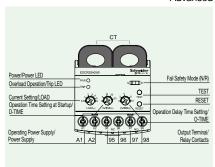
Static & electronic over current relay developed to resolve the drawbacks of previous thermal/induction relays

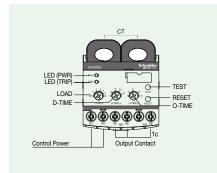


Advanced





Standard



- Micro compact size
- Protection against over current/phase loss/locked rotor (phase loss/locked rotor operates by over current)
- Separate setting for startup delay/operation delay time
- Relay resistant to vibration and short-circuit applied (1a1b applied) * 1c for standard type
- Integrated AC/DC operating power supply (Free voltage) * AC 100~240V for standard type
- Operation display and active current check (LED)
- Manual (instant)/electrical reset
- Capable of protecting the motor with precisely applied MCU
- N Type, R Type integration (can select Dip switch) * R-type only for standard type
- NVR (No Volt Release) function / Fail Safe
- Super power-saver and strong environmental resistance

Usage

- Under voltage induction motor (600V)/High voltage motor(3.3kV) protective relay (uses high voltage CT)
- Shock relay by specialized machine
- Current relay for fault monitoring
- For replacement of thermal protective relay

Protection Function

Protected Items	Operation Time
Over Current	O-TIME
Phase Loss	O-TIME
Locked Rotor	O-TIME + D-TIME

LED

F	Current System functions Detailed Setting	With current setting, the LED flickers when the current indicator of the setting knob is at 100% of the active load current. This means that it is possible to proceed with the setting after checking the active current, and a setting of up to 103% is possible.
C	peration/Operation	Relay Operation: Red
Display		Power Supplied/Normal operation: Green

Manual (Instant) Reset/Electrical Reset

Press the RESET button or cut the power (L1, L2) - install SW. in remote locations, remote reset function available

Setting

Set as follows after completing the installation.

Category	Setting Knob	Method
Start Delay Time	D-TIME	Turn the D-TIME Knob to set it based on the startup time of the motor
Operation Time	O-TIME	Turn the O-TIME Knob to set at the desired operation time
Current	LOAD	1. After starting the motor, gradually turn the LOAD Knob counterclockwise from the max. value to find the spot at which the LED begins to flicker (active current point) 2. To set to 103%, turn the Knob clockwise to find a spot where the LED is turned off - If this method seems inconvenient, simply set it to 110%~125% of the active current value (item 1).

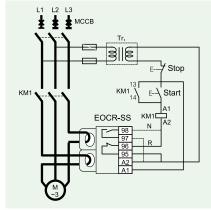
TEST Method

- After all wiring tasks are complete, if control power is supplied and the Test button is pressed and held, the red LED will
 illuminate. If the output contact operates when the set D-TIME and O-TIME elapse, it is working properly, and its operating
 status is normal.
- Press the Reset button or cut the control power to immediately reset.
- If the control power functions properly, but the green LED does not, repair service is required.
- $\ensuremath{\mathbb{X}}$ Test function is available only after the motor has stopped.

Operation Display

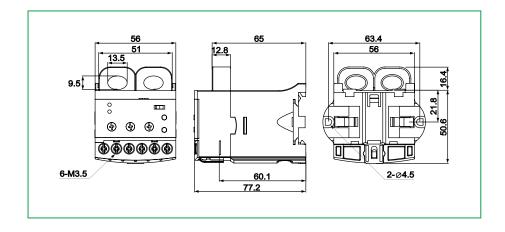
Condition		PWD LED		TRIP LED
Power Supply	Flicker		Lights-out	
In Operation	Flicker		Flicker	
Normal operation	Lights-on		Lights-out	
In Overload	Lights-on		Lights-on	
Upon operation/trip	Lights-out		Lights-on	

EOCR-SS



* "N"(Fail safe)Type converts 95 → F96 to open and 95 → +98 to close when operating power is supplied to A1 and A2 (or L1 and L2).

Specifications Current Setting Type Setting Range 0.5 ~ 6A 5 30 3.0 ~ 30A 60 5.0 ~ 60A 60 ~ 400 Used in combination of 05Type and an external CT (external CT current transformer ratio: 100/5A~400/5A) Start Delay Time Time Setting D-TIME $0.5 \sim 30 sec$ Operation Time O-TIME 0.5 ~ 10 sec Re set Manual (Instant)/Electrical (Remote) Reset **Operation Time Characteristic** Definite **Error Tolerance** ±10% Current Time ±15% Voltage 24~240V AC/DC Operating S (advanced) Power W (advanced) 380~480V AC Supply 100~240V AC/DC U (standard) 50/60Hz Frequency Auxiliary Advanced: 2-SPST (1a1b), Standard: 1-SPDT (1c) Format Contact State R Type Normally de-energized (regardless of power supply: 95-96 Close, 97-98 Open) N Type Normally energized (after power is supplied: 95-96 Open, 97-98 Close) Rated AC250V/3A resistive load Insulation Resistance 100MΩ or higher with a DC500V Megger Between case and circuit Withstanding Between case and 2.0kV power frequency for 1 min Voltage circuit Between contacts 1.0kV power frequency for 1 min Between circuits 2.0kV power frequency for 1 min Usage Temperature For storage -30~80 ℃



-20~60 ℃

35mm DIN Rail/Panel

30~85% RH with no dew condensation

For operation

Environment

Attachment

Humidity

EOCR-SS

How to Order

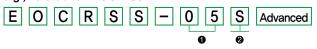
		Current			Operating Power Supply		
Referer	ference Range [A] CT Output Contact		Voltage [V]	Frequency [Hz]	Notes		
		AC/DC 24~240V	50/60	For both Panel/DIN rail			
Advanced	-05W	0.5~6	-	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	For both Panel/DIN rail
	-05SQ	0.5~6	-	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	For both Panel/DIN rail, product for CCC certification
	-D1S	100:5	100:5	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	Rectangular all-in-one 2CT combination
	-DHS	150:5	150:5	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	Rectangular all-in-one 2CT combination
	-D2S	200:5	200:5	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	Rectangular all-in-one 2CT combination
	-D3S	300:5	300:5	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	Rectangular all-in-one 2CT combination
	-D4S	400:5	400:5	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	Rectangular all-in-one 2CT combination
	-D1W	100:5	100:5	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	Rectangular all-in-one 2CT combination
	-DHW	150:5	150:5	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	Rectangular all-in-one 2CT combination
	-D2W	200:5	200:5	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	Rectangular all-in-one 2CT combination
	-D3W	300:5	300:5	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	Rectangular all-in-one 2CT combination
	-D4W	400:5	400:5	Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	Rectangular all-in-one 2CT combination
	-30S	3~30	-	Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	For both Panel/DIN rail
	-30W	3~30		Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	For both Panel/DIN rail
	-30SQ	3~30		Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	For both Panel/DIN rail, product for CCC certification
	-60S	5~60		Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	For both Panel/DIN rail
	-60W	5~60		Select N/R, 2-SPST (1a1b)	AC 380~440V	50/60	For both Panel/DIN rail
	-60SQ	5~60		Select N/R, 2-SPST (1a1b)	AC/DC 24~240V	50/60	For both Panel/DIN rail, product for CCC certification
EOCRSS	-05RU	0.5~6	-	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	For both Panel/DIN rail
Standard	-30RU	3~30	-	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	For both Panel/DIN rail
	-60RU	5~60	-	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	For both Panel/DIN rail
	-D1RU	100:5	100:5	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	Rectangular all-in-one 2CT combination
	-DHRU	150:5	150:5	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	Rectangular all-in-one 2CT combination
	-D2RU	200:5	200:5	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	Rectangular all-in-one 2CT combination
	-D3RU	300:5	300:5	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	Rectangular all-in-one 2CT combination
	-D4RU	400:5	400:5	R type, 1-SPDT (1c)	AC/DC 100~240V	50/60	Rectangular all-in-one 2CT combination

Accessory

	Accessory1						
Model	Reference	CT Current Transformer Ratio	Notes				
2CT	2CT-D1-100-C	100:5	Rectangular 2CT				
	2CT-D2-200-C	200:5	Rectangular 2CT				
	2CT-D3-300-C	300:5	Rectangular 2CT				
	2CT-D4-400-C	400:5	Rectangular 2CT				

Ordering Example

e.g., To order an EOCR-SS:



Current Sett Range	Current Setting	5	0.5-6A	For 60A or higher,
		30	3.0-30A	combine 05Type and an external
	naliye	60	5.0-60A	CT (secondary 5A) for use
0	Operating S		24~240V	AC/DC
•	Power Supply	W	380~440	V AC

^{**}For a CT combination type, please write an accessory code from the CT Order Codes separately.

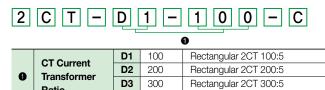
E O C R S S - 0 5 R U

Current S Range		5	0.5-6A	For 60A or higher,	
	Current Setting	30	3.0-30A	combine 05Type and an external	
	nange	60	5.0-60A	CT (secondary 5A) for use	
2	Output Power	R	R Type		
8	Operating Power Supply	U	100~240V AC/DC		

**Contacts are 2-SPST (1a1b) for advanced and 1-SPDT (1c) for standard.

e.g., To order a 2CT:

Ratio



400

Rectangular 2CT 400:5

D4