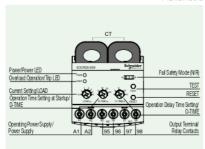
Static & electronic over current relay developed to resolve the drawbacks of previous thermal/induction relays

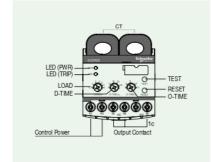


Advanced





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

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.
Operation/Operation Display	Relay Operation: Red 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	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) 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).

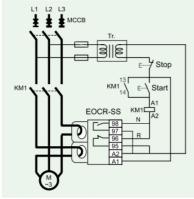
TEST Method

- 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.
- $\ensuremath{\,\times\,}$ Test function is available only after the motor has stopped.

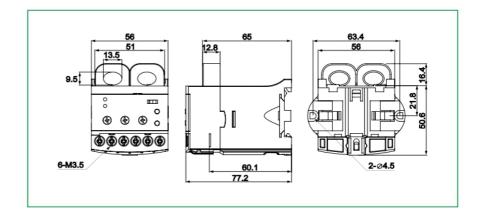
Operation Display

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



Specifications Current Setting Setting Range Туре 0.5 ~ 6A 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) Time Setting D-TIME Start Delay Time $0.5 \sim 30 \text{ sec}$ Operation Time O-TIME 0.5 ~ 10 sec Manual (Instant)/Electrical (Remote) Reset Re set Operation Time Characteristic Definite Error Tolerance ±10% Current Time ±15% Operating Voltage 24~240V AC/DC S (advanced) Power W (advanced) 380~480V AC 100~240V AC/DC Supply U (standard) Frequency 50/60Hz 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 Between case and 100MΩ or higher with a DC500V Megger Resistance 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 -30~80 ℃ Usage Temperature For storage Environment -20~60 ℃ For operation 30~85% RH with no dew condensation Humidity



35mm DIN Rail/Panel

Attachment

EOCR-SS

How to Order

Reference		Current			Operating Pov	ver Supply	
		Range [A]	СТ	Output Contact	Voltage [V]	Frequency [Hz]	Notes
EOCRSS	-05S	0.5~6	-	Select N/R, 2-SPST (1a1b)	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

EOCR-SS

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

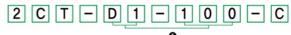
e.g., To order an EOCR-SS:



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

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

e.g., To order a 2CT:



CT Current	D1	100	Rectangular 2CT 100:5			
0	Transformer	D2	200	Rectangular 2CT 200:5		
Ratio		D3	300	Rectangular 2CT 300:5		
	nauo	D4	400	Rectangular 2CT 400:5		

EOCRSS-	- 0 5	R U	Standard
		$\equiv \equiv$	

		-	0.5.04				
	Current Setting Range	5	0.5-6A	For 60A or higher,			
0		30	3.0-30A	combine 05 Type and an exter			
		60	5.0-60A	CT (secondary 5A) for use			
0	Output Power	R	R Type				
8	Operating	U	100~240V AC/DC				
9	Power Supply 0 100~240V AC/DC			NODO			

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