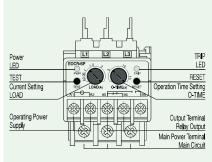
Micro electronic over current relay designed to be directly coupled with magnetic contactors

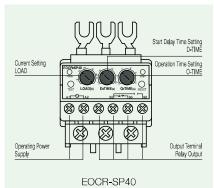


- Built-in MCU (Microprocessor Control Unit)
- Can be directly coupled with all domestic/imported magnetic contactors (MC)
- Various protection functions
- Operating current check: Red LED
- Operation display and trip cause check: Red/Green LED
- Manual (instant)/electrical (remote) reset
- Strong environmental resistance
- Super energy-saver
- No-voltage release/Fail-safe operation→ N type
- * SP is single-phase/3-phase compatible



EOCR-SP





Protection Functions and Characteristics

Model	Туре	Protection Function			Operation	Time Setting	
		Over Current	Phase Loss	Locked Rotor	Characteristics	Start Delay	Operation Time
SP	01, 10, 20	0	Δ	Δ	Definite	×	0.5~15 sec
	40	0	0	Δ	Definite	0.5~30 sec	0.5~10 sec

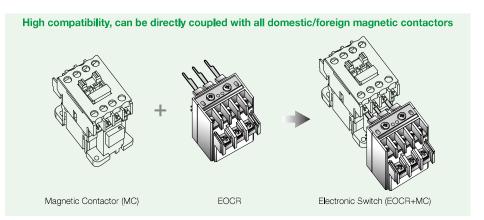
- Phase loss and locked rotors protection for SP are operated by over current.
- 40Type phase loss of SP operates within 4 sec (only protects L1 and L3 phases)

Trip Cause Check (for SP40)

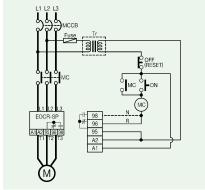
			LED Signal (Pulse Chart)					
Condition			Green LED		Red LED			
Power Supply		Flicker	шш	Lights-out				
In Operation		Flicker		Flicker				
Normal operation		Lights-on		Lights-out				
In overload		Lights-on		Flicker				
Upon operation /trip	Over Current		Lights-out		Lights-on			
	Locked Rotor		Lights-out		Flicker			
		L1	Lights-out		Repeats flickering once			
	Phase Loss	L2	Lights-out		Repeats flickering 2 times			
		L3	Lights-out		Repeats flickering 3 times			

- ** For the SP models, only the green LED flickers when it is supplied with power. When operated (tripped) by over
- current, the green LED is turned off and only the red LED is illuminated.

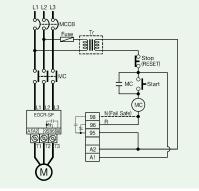
 For the SP 40 model, the green LED flickers once at every interval when supplied with power. When operated (tripped) by over current, the green LED is turned off and only the red LED is illuminated.



EOCR-SP



EOCR-SP

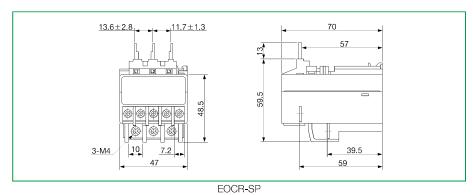


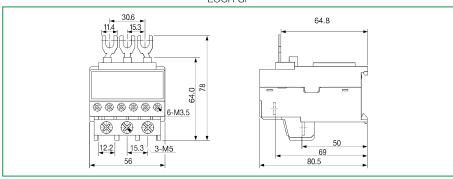
EOCR-SP(40Type)

※ "N"(Fail safe) Type converts 95 → 496 to open and 97 → 198 to close when operating power is supplied to A1 and A2 (or L1 and L2).

Specifications

Current Setting		Туре	Setting Range				
		1	0.3~1.2A	SP			
		10	1~12A		SP		
		20	5~25A		SP		
		40	8~40A		SP40		
Time Setting	Start Delay Time	D-TIME	Protection Functions and Characteristics (see p.233)				
	Operation Time	O-TIME	Protection Function	s (see p.233)			
Reset	Reset			Manual (instant)/electrical reset			
Operation Time Characteristic			Definite				
Operation Display			LED Lamp (trip cause check, see p.233)				
Operating	Voltage	SP (01,10,20)	R Type: AC90~260V				
Power Supply		SP (40)	N Type : AC110V	AC85~150V	Other AC/DC 24V		
			N Type : AC220V	AC180~260V			
	Frequency		50/60Hz				
Auxiliary Contact	SP	SPDT (1c)	AC250V/3A resistive load				
Attachment			Electric Contactor (direct-coupled)				





EOCR-SP(40Type)

EOCR-SP

How to Order

Reference		Current Contact		Operating Po	NI .	
		Range [A]	Output	Voltage [V]	Frequency [Hz]	Notes
EOCRSP	-01NF7	1	N	AC 110V	50/60	Direct-coupled, Definite
	-01NM7	1	N	AC 220V	50/60	Direct-coupled, Definite
	-01RY7	1	R	AC220V(90~260)	50/60	Direct-coupled, Definite
	-10NF7	10	N	AC 110V	50/60	Direct-coupled, Definite
	-10NM7	10	N	AC 220V	50/60	Direct-coupled, Definite
	-10RY7	10	R	AC220V(90~260)	50/60	Direct-coupled, Definite
	-20NF7	20	N	AC 110V	50/60	Direct-coupled, Definite
	-20NM7	20	N	AC 220V	50/60	Direct-coupled, Definite
	-20RY7	20	R	AC220V(90~260)	50/60	Direct-coupled, Definite
	-40RM7	40	R	AC 220V	50/60	Direct-coupled, Definite
	-40RF7	40	R	AC 110V	50/60	Direct-coupled, Definite
	-40RB	40	R	AC/DC 24V	50/60	Direct-coupled, Definite
	-40NM7	40	N	AC 220V	50/60	Direct-coupled, Definite
	-40NF7	40	N	AC 110V	50/60	Direct-coupled, Definite
	-40NB	40	N	AC/DC 24V	50/60	Direct-coupled, Definite

Ordering Example

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

