EOCR-DS1(T) / EOCR-DS3(T)

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION,OR ARC FLASH
Disconnect all power before servicing equipment.
Failure to follow these instructions will result in death or serious injury.

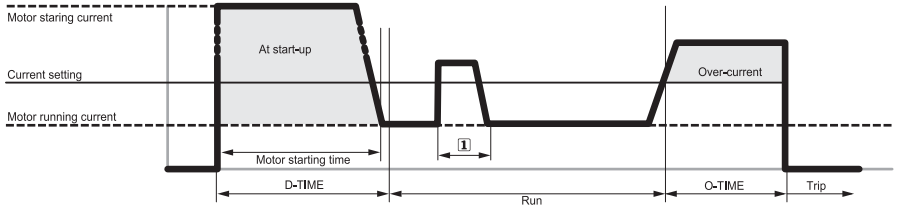
- Authorized technical engineers only for installation, maintanance or repair.
- Adjust the settings according to the electric characteristics of a motor, an inappropriate setting may cause permanent damage on the motor
- External filter should be installed to reduce harmonics in an environment where the AC power contains excessive harmonic than IEC standard. No installation in the site may result in accuracy problem, abnormal operation and mal-function
- Please contact Customer Care center when our product is installed for devices containing SCR such as inverters
- Check periodically whether our product works properly by pressing and holding the test button.
- 18 months warranty from the date of shipment.

Help & Download

For more technical support, please visit

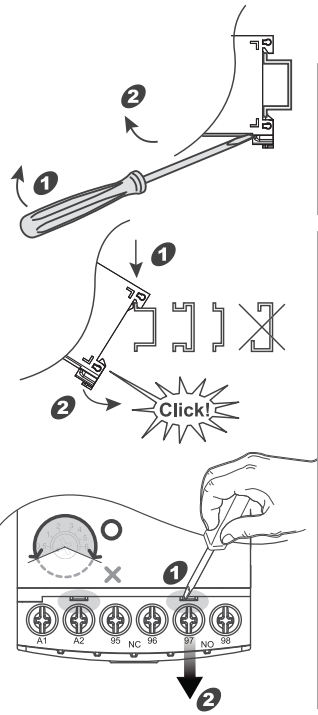
R&D Technology

- Setting instruction
  D-TIME : Set two to three seconds longer than the motor starting time.
  O-TIME : Over-current run time. Set less than the motor's endurance time with over-current.
  LOAD : Set over 110% of the motor's rated current or under 120% of its operating current.
- TEST instruction
  With Test button held down, the red LED is on and the product will trip after O-TIME.
  The relay will be de-energized when RESET button is pushed or the control power is disconnected.



1 The trip is deactivated until the over-current run time is longer than O-time.

Installation



How to order

①	②	④	⑤
E O C R D S 1 -	0 5	S	Q

①	EOCRDS1 EOCRDS3 EOCRDS1T EOCRDS3T	Electronic Over-current Relay	CCC Certification GB14048.4-2010
	EOCRDG EOCRDGT EOCRDZ EOCRDZT EOCR4E	Electronic Over-current(Ground fault) Relay	

No	Item	Model	Type	Current Range	
②	Standard	DS1(T)	05	0.5...6A	Above 60A, use combination type
		DS3(T)	30	3...30A	
			60	5...60A	
		DG(T) DZ(T)	05	0.5...6A	
			10	1...10A (DZ only)	
			30	3...30A (DG only)	
			60	5...60A (DZ only)	
		4E	05	1...6A	
	External CT Type	DS1(T) DS3(T) DG(T) DZ(T)	H1	10...100A	100:5 3CT (100:5 CT combination)
			HH	15...150A	150:5 3CT (150:5 CT combination)
			H2	20...200A	200:5 3CT (200:5 CT combination)
			H3	30...300A	300:5 3CT (300:5 CT combination)
			H4	40...400A	400:5 3CT (400:5 CT combination)
③	Relay output	DG(T) DZ(T) 4E	N	95-98 Closed when powered (Energized)	
			R	95-96 Closed when powered (De-energized)	

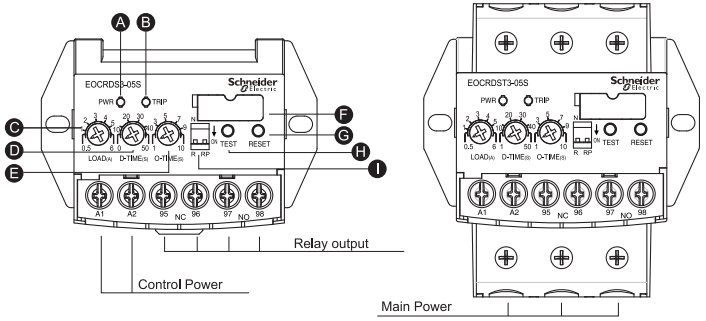
④ Control Power	S AC/DC 24~240V	W AC 380~440V	B AC/DC 24V	F7 AC 110V	M7 AC 220V	Y7 AC 90~260V
DS1(T)	○	○				
DS3(T)	○	○				
DG(T)			○	○	○	
DZ(T)			○	○	○	
4E						○

⑤ Q : Export

EOCR-DS1(T)/ DS3(T)

GB14048.4-2010

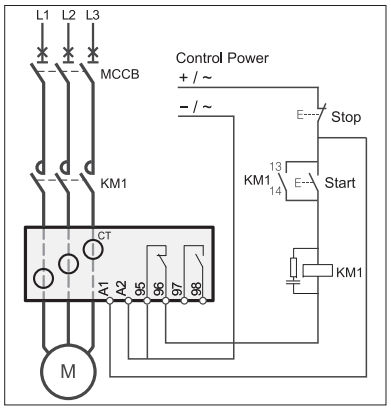
Description



A	B	C	D	E	F	G	H	I
LED(PWR)	LED(TRIP)	LOAD	D-TIME	O-TIME	TAG	RESET	TEST	DIP SW

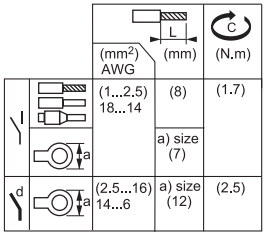
LED Indication		EOCR-DS1(T) / DS3(T) PWR(Green)	TRIP(Red)
Starting		Blink	Blink
Normal operation		On	Off
Over-current		On	Blink
Trip		Off	On
Stall		Off	Blink
Phase Loss(PL)	L1	Off	Blink
	L2	Off	Blink
	L3	Off	Blink
Reverse Phase(RP)			

Wiring



	95 - 96	97 - 98
R type	Close	Open
N type	Open	Close

※ It is highly recommended to use an isolated control power.



NVR (No Volt Release) / N : Fail safe , R : No Fail safe

To change setting paramaters, turn the control power off and turn it on again, or press Reset button for initialization.

RP : / Reverse phase detction

Reverse phase detection will be activated or deactivated as soon as the switch changes.

※ **PL :** ON/OFF RESET TEST
The phase-loss function can be activated/deactivated by a sequence with the two push buttons.
With the Reset button pressed at least 5 second, both of the two LEDs become blinking or ON.

	PWR(Green)	TRIP(Red)
PL ON	On	On
PL Off	Blink	Blink

Dimensions