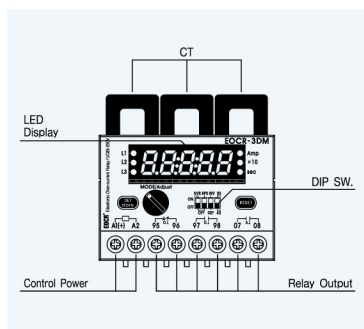


EOCR-3DM/3MS/3MZ/3M420

MCU & ASIC Based Overload Relay



EOCR-3DM / 3MS / 3MZ / 3M420



- Over-current, Under-current, Phase Loss, Phase reversal, Phase Unbalance, Locked rotor protection
- Short current protection ← 3MS
- Ground Fault Protection ← 3MZ
- Current Loop Communication ← 3M420
- Accumulation to Running time

Protection

Protective Item		Trip Time			
		3DM	3MS	3MZ	3M420
Over-current		DEF: 0.2 ~ 30sec, INV: 1 ~ 30sec	DEF: 0.2 ~ 30sec, INV: 1 ~ 30sec	DEF: 0.2 ~ 30sec, INV: 1 ~ 30sec	DEF: 0.2 ~ 30sec, INV: 1 ~ 30sec
Under-Current		0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)
Phase reversal		0.1sec	0.1sec	0.1sec	0.1sec
Phase Unbalance		8sec	8sec	8sec	8sec
Locked Rotor	Lock	0.5sec after dt	0.5sec after dt	0.5sec after dt	0.5sec after dt
	stall	1 ~ 10sec	1 ~ 10sec	1 ~ 10sec	1 ~ 10sec
Ground fault		-	-	0.1 ~ 10sec	-

Specification

Model		3DM	3MS	3MZ	3M420
Current Setting	Over-Current(oc)	Refer to, Table #1	Refer to, Table #1	Refer to, Table #1	Refer to, Table #1
	Under-Current(uc)	0.5 ~ under OC setting	0.5 ~ under OC setting	0.5 ~ under OC setting	0.5 ~ under OC setting
	Ground Fault Current(Ec)	-	-	A : 0.03 ~ 2.5A / B : 0.5 ~ 10A	-
Time Setting	Starting Delay Time(dt)	OFF ~ 200sec	OFF ~ 200sec	OFF ~ 200sec	OFF ~ 200sec
	Over-Current Trip Delay(ot)	DEF : 0.2 ~ 30sec / INV : 1 ~ 30sec	DEF : 0.2 ~ 30sec / INV : 1 ~ 30sec	DEF : 0.2 ~ 30sec / INV : 1 ~ 30sec	DEF : 0.2 ~ 30sec / INV : 1 ~ 30sec
	Under-Current Trip Delay(ut)	0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)	0.5 ~ 30sec(DEF)
	Ground Fault Trip Delay(Et)	-	-	0.1 ~ 10sec	-
Control Power	220	DC/AC 85 ~ 250V, 50/60Hz	DC/AC 85 ~ 250V, 50/60Hz	DC/AC 85 ~ 250V, 50/60Hz	DC/AC 85 ~ 250V, 50/60Hz
Output Relay	OL(SH)	2-SPST, AC250V/3A, Resistive	2-SPST, AC250V/3A, Resistive	1-SPST, AC250V/3A, Resistive	1-SPST, AC250V/3A, Resistive
	GR	-	-	1-SPST, AC250V/3A, Resistive	-
Environment	Temperature	Store	-30℃ ~ 80℃	-30℃ ~ 80℃	-30℃ ~ 80℃
		Operation	-30℃ ~ 80℃	-30℃ ~ 80℃	-30℃ ~ 80℃
	Humidity	30 ~ 85RH, Non-freezing	30 ~ 85RH, Non-freezing	30 ~ 85RH, Non-freezing	30 ~ 85RH, Non-freezing
Display	7-Segment LEDs	○	○	○	○
	Bar-Graph	○	○	○	○
Mounting		35mm Din-rail	35mm Din-rail	35mm Din-rail	35mm Din-rail

Table #1. Current Range

Type	Current Setting range	Number of Conductor thru CT windows	Position of DIP S/W4	External CT ratio	Setting of CT Mode Remark
05	0.1 ~ 2.0A	5	05	NIL	5t
05	0.25 ~ 5.0A	2	05	NIL	5t
05	0.5 ~ 10A	1	05	NIL	05
※ 60	5 ~ 70A	1	60	NIL	60
※ ※ 20	5 ~ 20A	1	20	NIL	20
10	1.0 ~ 12A	1	05	10 : 5	10
15	1.5 ~ 18A	1	05	15 : 5	15
20	2.0 ~ 24A	1	05	20 : 5	20
25	2.5 ~ 30A	1	05	25 : 5	25
30	3.0 ~ 36A	1	05	30 : 5	30
40	4.0 ~ 48A	1	05	40 : 5	40
50	5.0 ~ 60A	1	05	50 : 5	50
60	6.0 ~ 72A	1	05	60 : 5	60
75	7.5 ~ 90A	1	05	75 : 5	75
100	10 ~ 120A	1	05	100 : 5	100
120	12 ~ 144A	1	05	120 : 5	120
150	15 ~ 180A	1	05	150 : 5	150
200	20 ~ 240A	1	05	200 : 5	200
250	25 ~ 300A	1	05	250 : 5	250
300	30 ~ 360A	1	05	300 : 5	300
400	40 ~ 480A	1	05	400 : 5	400
500	50 ~ 600A	1	05	500 : 5	500
600	60 ~ 720A	1	05	600 : 5	600
750	75 ~ 900A	1	05	750 : 5	750
800	80 ~ 960A	1	05	800 : 5	800

※ EOCR-3DM, 3MZ, 3M420, FDM, FMZ, FM420

※ EOCR-3MS, FMS