



Application

Protector Relays monitor ac values and protect loads such as motors and generators from damage by initiating an alarm or shutdown from contact outputs. A delay time is available on several units to stop nuisance tripping. Models are available with under, over and differential trip levels. Mounting is via Din rail.
Designed by Multitek.

TYPE	Application	Alarm	Model	Input	Over Setpoint	Under Setpoint	Diff	Delay	Option	
Current	1 Phase	Under	M200-AIU	0.2-10A / CT		0-80%	5%	0.2-10s	delay to 30s	
		Over	M200-AIO	0.2-10A / CT	40-120%		5%	0.2-10s	delay to 30s	
	3 Phase	Both	M200-AIC	0.2-10A / CT	40-120%		5%	0.2-10s	delay to 30s	
		Under	M200-A3U	0.2-10A / CT		0-80%	5%	0.2-10s	delay to 30s	
	Voltage	1 Phase	Over	M200-A3O	0.2-10A / CT	40-120%		5%	0.2-10s	delay to 30s
			Under	M200-VIU	57.8-500V		75-100%	1-15%		fixed delay
3 wire		Over	M200-VIO	57.8-500V	100-125%		75-100%	1-15%	fixed delay	
		Both	M200-VIC	57.8-500V	100-125%		75-100%	1-15%	fixed delay	
4 wire		Under	M200-V33U	100-500V		100-125%	75-100%	1-15%	fixed delay	
		Over	M200-V33O	100-500V	100-125%		75-100%	1-15%	fixed delay	
Voltage with adjustable delay	3 Phase	Both	M200-V33C	100-500V	100-125%	75-100%	1-15%	fixed delay	fixed delay	
		Under	M200-V34U	100-500V		100-125%	75-100%	1-15%	fixed delay	
	3 Phase	Over	M200-V34O	100-500V	100-125%		75-100%	1-15%	fixed delay	
		Both	M200-V34C	100-500V	100-125%		75-100%	1-15%	fixed delay	
	3 Phase	Under	M200-VIX	57.8-500V		75-100%	1%	0.2-10s		
		Over	M200-VIY	57.8-500V	100-125%		75-100%	1%	0.2-10s	
	3 Phase	Both	M200-VIW	57.8-500V	100-125%		75-100%	1%	0.2-10s	
		Under	M200-V33X	100-500V		75-100%	1%	0.2-10s		
	3 Phase	Over	M200-V33Y	100-500V	100-125%		75-100%	1%	0.2-10s	
		Both	M200-V33W	100-500V	100-125%		75-100%	1%	0.2-10s	
	3 Phase	Under	M200-V34X	100-500V		100-125%	75-100%	1%	0.2-10s	
		Over	M200-V34Y	100-500V	100-125%		75-100%	1%	0.2-10s	
Frequency	3 Phase	Both	M200-V34W	100-500V	100-125%	75-100%	1%	0.2-10s		
		Under	M200-FIU	50,60,400Hz		40-60Hz	0.3-3Hz		delay	
		Over	M200-FIO	50,60,400Hz	40-60Hz		0.3-3Hz		delay	
Reverse Power	1 Phase	Both	M200-FIC	50,60,400Hz	40-60Hz	40-60Hz	0.3-3Hz		delay	
		Under	M200-RP1	57.8-500V,5A	2-20%		1%	0.2-20s	delay to 30s	
		Over	M200-RP3	57.8-500V,5A	2-20%		1%	0.2-20s	delay to 30s	
Synchro check	2 Gen	Under	M200-PLL	57.8-500V	10-30%		5%			
		Over	M200-PLD	57.8-500V	10-30%		5%			
Phase Sequence	Dead bus	Under	M200-PLS	57.8-500V			5%			
		Over	M200-PS1	57.8-500V						
Balance and Loss			M200-PB1	57.8-500V	5-15%			0.2-10s	delay to 30s	
Balance, loss and undervoltage			M200-PB2	57.8-500V	5-15%			0.2-10s	delay to 30s	
Speed			M200-ST3	<10kHz <75V	100-130%		2%			
4-20mA	Auto rst Manual reset	Under	M200-TAU	4-20mA		0-80%	5%	0.2-10s	delay to 30s	
		Over	M200-TAO	4-20mA	40-120%		5%	0.2-10s	delay to 30s	
		Both	M200-TAC	4-20mA	40-120%		5%	0.2-10s	delay to 30s	
T'couple J	Manual reset	Under	M200-TJU	185-870C		0-80%	2%	0.2-10s	delay to 30s	
		Over	M200-TJO	185-870C	40-120%		2%	0.2-10s	delay to 30s	
T'couple K	Manual reset	Both	M200-TJC	185-870C	40-120%	0-80%	2%	0.2-10s	delay to 30s	
		Under	M200-TKU	245-1230C		0-80%	2%	0.2-10s	delay to 30s	
Thermistor		Under	M200-TTA	<1500 Ohms	2.5K-3.5KOh		5%			
		Over	M200-TTM	<1500 Ohms	2.5K-3.5KOh		5%			
Millivolt		Under	M200-MVU	10-999.9mV		0-80%	5%	0.2-10s	delay to 30s	
		Over	M200-MVO	10-999.9mV	40-120%		5%	0.2-10s	delay to 30s	
		Both	M200-MVC	10-999.9mV	40-120%		5%	0.2-10s	delay to 30s	
DC Volts		Under	M200-TVU	1-50V		0-80%	5%			
		Over	M200-TVO	1-50V	40-120%		5%			
		Both	M200-TVC	1-50V	40-120%	0-80%	5%			

Note: Full Specifications for each model are available by download from our website www.universitypaton.com.au or by requesting a copy by fax or email.