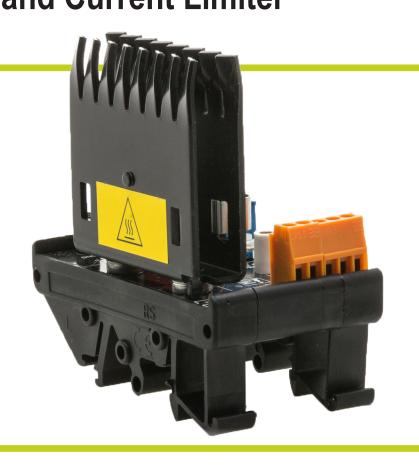






- DC solid state relay rated up to 20A
- Includes overcurrent protection with user adjustable threshold
- Digital output when current threshold is exceeded
- Mounts on 32mm and 35mm DIN rails



We're not sure if this is a DC solid state relay with an overcurrent protection feature or an electronic DC circuit breaker with a relay function. Either way, it can control 24Vdc loads rated up to 20A, senses the load current and turns off if the current exceeds a user configurable trip point.

Using a 24Vdc control signal the load current can be turned on and off. The user can set a load current threshold (or trip point) above which the module turns off. Resetting the module after an overcurrent condition can be accomplished 3

- Pulsing the RST terminal with 24Vdc
- Pressing the on-board reset

pushbuttonCycling the 24Vdc supply

The trip point is adjusted using a multi-turn potentiometer. How does the user know what trip current level they have set it for? There are 2 methods. The first is to connect a voltmeter between 2 test points (mini-banana plug jacks) and calculating the trip point using the equation VTEST = ITRIP x 0.185. A more accurate method involving applying a known load current and adjusting the trip point to an actual measured value is also possible (see "Adjustment" section on reverse).

Other features include a trip alarm output, status LED and a cross

connection method that allows 24Vdc to be bussed to multiple modules. The module mounts on both 32mm and 35mm DIN rails and requires only 40mm of rail space.





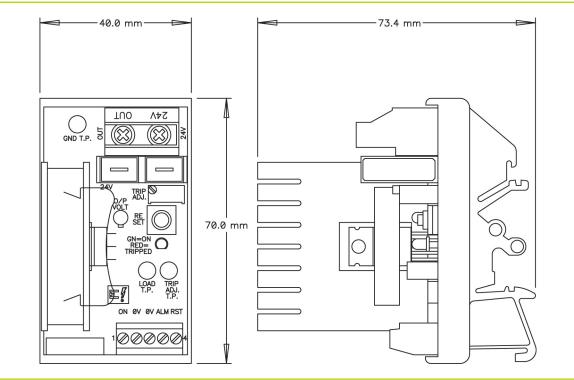
SPECIFICATIONS

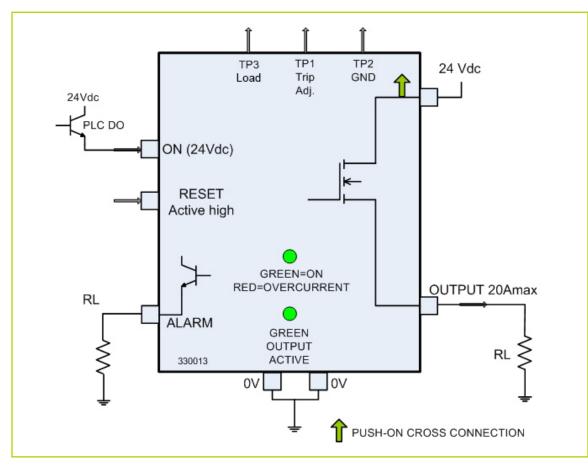
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Catalog number	330013
Supply Voltage:	24Vdc nominal, 20-28Vdc
Current:	20A max. via screw terminals 15A max. via push-on terminals
Wire size:	26-10AWG via screw terminals 16-14AWG using female crimp terminal
Output (load) voltage:	supply voltage - VDROP across output
VDROP across output:	=10mΩ nominal x ILOAD (0.14V @ 20A)
Continuous current:	=supply current max. (automatic turn-off if ILOAD≥ 25A nominal, red "TRIP" LED is not energized in automatic off mode)
Surge current:	25A max.
Туре:	mosfet
Wire size:	26-10 AWG via screw terminals
Alarm voltage:	24Vdc nominal sourcing via "TRP" terminal
Alarm current:	50mA max.
Alarm function:	Active while unit is in overcurrent trip condition
Wire size:	26-12AWG
Control voltage:	24Vdc±10%
Control current:	2mA max.
Control function:	Energizing "ON" terminal turns SSR on (active high)
Wire size:	26-12AWG
Current trip point threshold:	0.5-20A
Function:	Output is switched off and remains off (latched) until module is reset
Adjustment:	Via "Trip Adj." Potentiometer, trip point can be determined by measuring the voltage between test points (black=0V, red=VTEST); VTEST=ITRIP x 0.185. Some typical values are as follows: ITRIP VTEST
Switching time:	<120ms (total time to detect ILOAD>ITRIP and to switch off mosfet output)
Reset:	Via pushbutton or "RST" terminal (24Vdc @ 5mA). Cycling the supply will also reset the module.
Reset terminal wire size:	26-12AWG
Status LED's "ON"	Indicates supply voltage is present green = control is energized, red = unit is latched off (ALM terminal is active)
Status LED's "TRIP":	green = control is energized, red = unit is latched off (ALM terminal is active)
Mounting:	32mm or 35mm DIN rail
Operating temperature:	-20° to +70° C.
Approvals:	^c ∰us E256770
	. LISTED

115 Anderson Ave. Markham ON L6E 1A4 www.emphatec.com









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Other Overcurrent Protection Products

SIGNEXT® 8 Channel Circuit Breaker Module

- 8 circuit breakers in a 35mm wide package
- remote on/off and manual reset
- intended for 24Vdc applications



DEPRO® BC5F Class 1 Division 2 Certified Fuse Terminal

- accepts 5 x 20mm fuse up to 10A
- combifoot; mounts on 15, 32 and 35mm DIN rails



SIGNEXT® TB5F Fuse Terminal with Status Indication

- 5x20mm fuse rated up to 10A\low leakage current blown fuse indication
- Zero leakage current fuse status indication
- 6mm wide

