



- » Single phase 2 input ranges: 3-32VDC and 90-250VAC.
- » Maximum load current (AC1 at 25°C): 25, 60, 80, 100A.
- » Operational ratings: 40 - 480 VAC.
- » Frequency range: 50- 60 Hz.
- » Maximum non-repetitive peak voltage: 930 Vp.
- » LED indicator.
- » Clip on protective cover for greater safety (IP 20).

## References

Control voltage	Switching Type	Operational current	Reference	Reference heat sink
3 - 32 VDC 90 - 280 VAC	Random Crossing	300 A	FDH30048RD3	H31/150
		500 A	FDH50048RD3	H31/200
	Zero Crossing	300 A	FDH30048RA4	H31/150
		500 A	FDH50048RA4	H31/200
3 - 32 VDC 90 - 280 VAC	Zero Crossing	300 A	FDH30048ZD3	H31/150
		500 A	FDH50048ZD3	H31/200
	Zero Crossing	300 A	FDH30048ZA4	H31/150
		500 A	FDH50048ZA4	H31/200

Over 10 A load a heat sink must be used. The use of a heat sink will make the lifetime of the relay up to four times longer, even when using it with load currents lower than 10 A.

## General specifications

Dielectric insulation (between input & output)	2,500 VAC
Operating temperature	-25 °C to 70 °C
Storage temperature	-35 °C to 85 °C
R <sub>th</sub> junction to case (Per Module)	0.55° C/W (300 A) 0.20° C/W (500 A)
Ambient humidity CE marking	Operating: up to 85 % Yes

## Input specifications

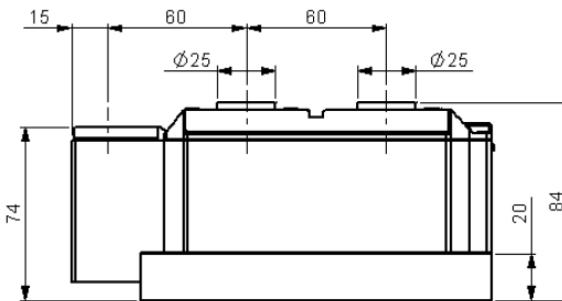
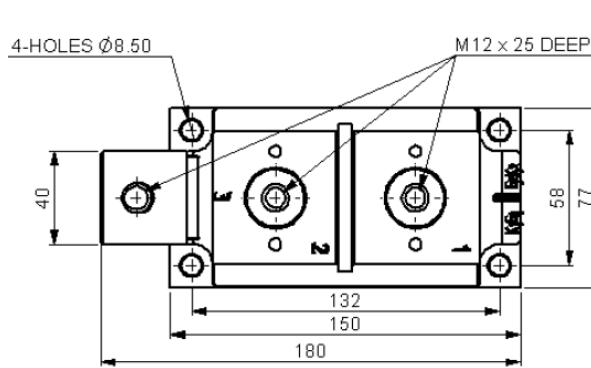
	VDC input	VAC input
Control voltage range	3 - 32 VDC	90 - 250 VAC
Input current (max)	10/16 mA @ = 5 V/24 V	29 mA @ = 220 VAC
Pick-up voltage	1,9 VDC	70 VAC
Drop-out voltage	1,9 VDC	70 VAC
Maximum reverse voltage	32 VDC	-
Max. response time pick-up	½ cycle	1 cycle
Max. response time drop-out	½ cycle	2 cycles

## Output specifications

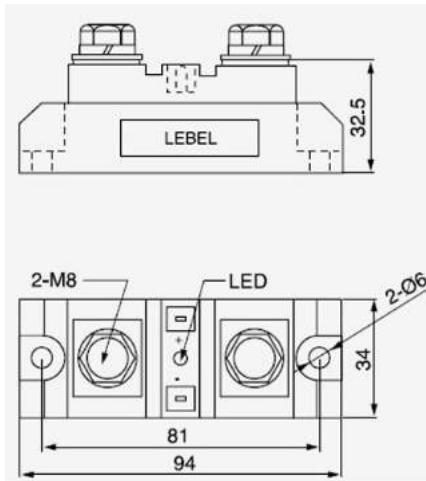
Maximum load current (AC51 @ Ta = 25°C) (AC53a @ Ta = 25°C)	150, 250A 50, 150
Load voltage range	40 - 480 VAC
Frequency range	50 - 60 Hz
Max. non-repetitive peak voltage	930 Vp
Max. non-repetitive peak current (t=10ms)	4500 Ap / 500 A 3000 Ap / 300 A
Maximum off state leakage current	10 mArms
Minimum off state dv / dt	200 V / useg
Maximum on state voltage	<1,6 VAC
Minimum load current	0,1 Arms
I <sup>2</sup> t (10 ms) (orientative data)	460,0 kA2/s (500A)   80,0 kA2/s (300A)

## Housing specifications

Dimensions (L x W x H mm)	34 x 94 x 32.5mm
Weight	500 gr max.
Baseplate	Aluminum, nickel-plated
Control terminal Fastron	1,2 Nm
Power terminal (M8x9) torque	2,4 Nm



## Dimensions (mm-inch)



## Diagrams

