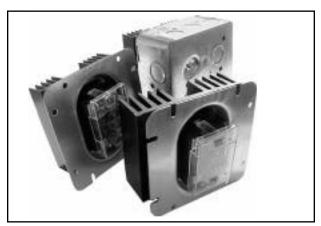
Solid State Relays Industrial, 1- Phase ZS For HVAC applications





- AC Solid State Relay

- Zero switching
 Direct copper bonding technology
 Rated operational current: 30 and 40 AACrms

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 Rated operational voltage: up to 400V
 Input range: 10 to 90 VAC/DC
 Insulation: OPTO (input-output) 4000 VACrms
- Comes mounted on plate for insertion into standard electrical boxes

Product Decription

The zero switching relay with antiparallel thyristor output is the most widely used industrial SSR due to its multiple application possibilities. The relay can be used for resistive, inductive, and capacitive loads. The zero switching relay switches ON when the sine curve just crosses zero and switches OFF when the current crosses zero

RA4450LA08 30A HS03K Ordering Key Solid State Relay_

Built-in Heatsink -

30 AMP

Type Selection

Switching mode	Rated Operational Voltage	Rated Operational Current	Control Voltage	Non-rep. Voltage
A: Zero switching Optional	44:400 VACrms	Depends on heatsink. See below	LA: 10to 90VAC/DC	08:850 Vp

Selection Guide

Rated opera- tional Voltage	Non-rep. voltage	Control Voltage	Rated operational current 30 AMP	40 AMP
400 VACrms	850 Vp	10 to 90 VAC/DC	RA 4450 LA0830AHS03K	RA 4450 LA0840AHS04K

General Specifications

Operational voltage range		
Non-rep. peak voltage		
Zero voltage turn-on		
Operational frequency range		
Power factor		
Approvals		

42 to 480 VACrms 850 Vp < 40 V 45 to 65 Hz ≥ 0.5 @400 VACrms UL, CSA

Input Specifications

	RA LA
Control voltage range Pick-up voltage	10 to 90 VAC/DC < 10 VAC/DC
Drop-out voltage Reverse voltage	≥ 1 VAC/DC
Input impedance Response time pick-up	5.4k
RA	<pre>< 1 cycle</pre>
RB Control pulse width	≤ 1 ms ≥ 0.5 ms
Response time drop-out	



Output Specifications

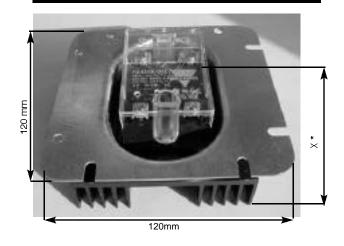
	30 AMP version	40 AMP version
Rated operational current AC1	30 Arms	40 Arms
AC3	15 Amps	15 Arms
Minimum operational current	20 mArms	20 mArms
Rep. overload current t=1 s	125 Arms	125 Arms
Non-rep. surge current t=20 ms	600 A _P	600 A _p
Off-state leakage current		
@ rated voltage, frequency	3 mArms	3 mArms
1 ² t for fusing t=1-10 ms	1800 A²s	1800 A ² s
Critical dl/dt	100 A/μs	100 A/µs
On-state voltage drop		
@ rated current	1.6 Vrms	1.6 Vrms
Critical dV/dt commutating	500 V/μs	500 V/µs
Critical dV/dt off-state	500 V/µs	500 V/µs

Thermal Specifications

Operating Temperature

-40 - +50°C

Dimensions



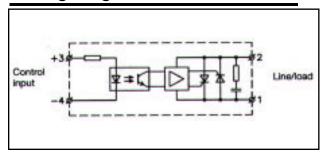
*30 AMP Version - 65mm *40 AMP Version - 78mm

Relay must be mounted with the heatsink fins vertical.

Insulation

4000 VACrms
4000 VACrms
10 ¹⁰
10 ¹⁰
8 pF
100 pF

Wiring Diagram



Functional Diagram

