

KHR500 CONTACTOR

"BUBBA II"

600A/28-1800Vdc SPST

Product Features

- Size reduced version of Popular BUBBA series contactors.
- 600A Carry
- SPST Main Contacts, SPDT Auxiliary Contacts
- Bi-Directional Load Switching
- 3300A Break at 400Vdc
- Make Current >5kA
- Available with Integrated PWM Coil Economizer or Dual Coil Electronic "Cut-Throat" Economizer
- Hermetically Sealed- operates in explosive/harsh environments.



PRE-PRODUCTION



Kilovac Brand

PH. 805-220-2020 FAX 805-220-2075
550 LINDEN AVE, CARPINTERIA, CA 93013
www.te.com

PRE-PRODUCTION DATA SHEET

06-19-12 Rev

KHR500 Contactor

CAGE CODE

18741

SCALE

NONE

SHEET

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Revision History

REV	Rev Date	Description	Approved
1	01/11/11	Prototype Specification Sheet	M. Priest
2	11/2/11	Update Outline Dwg, add dual coil version	M. Priest
3	05/08/12	Update Product Photo and Specs	M. Priest
4	06/19/12	Update Schematic Diagram	M. Priest

General Specifications

Physical Data	Units	KHR500KAANL
Contact Arrangements: Main Contacts		SPST Form X
Auxiliary Contacts (3A/125Vrms or 1A/30Vdc)		SPDT Form C
Dimensions	inches	See drawing
Weight, Nominal	Kg	0.56

Environmental Data						
Shock, 11ms ½ sine (operating)	G _{peak}	20				
Sine Vibration, 20 g _{peak}	Hz	55-2000				
Random Vibration, 14.06 Grms	Hz	15	100	450	900	2000
		G ² /Hz	.002	.002	.12	.12
Operating Temperature Range	°C	-40 to +85				

Electrical Data					
Voltage Rating: Main Contacts	Vdc	28-1800			
Current Rating, Continuous: Main Contacts (1)	A	600A			
Contact Resistance: Main Contacts (2)	mΩ	0.3 max			
Hot Switching performance, Resistive Load 600A make/ break @ 400Vdc	cycles	6,000			
		3000A break @ 400 Vdc			
		5000A make @ 400 Vdc			
Mechanical Life (min)	cycles	100,000			
Dielectric Withstand Voltage					
Terminal to Terminal/ Terminals to Coil	1mA max @ 2800 Vrms				
Insulation resistance					
Terminal to Terminal/ Terminals to Coil	100MΩ min @ 500Vdc new 50MΩ min @ 500Vdc end of life				

(1) Ambient conditions and conductor design affect rating. Terminal temperature rise should be 75C max above ambient. Keep relay terminals below 150C max continuous, 175C max for two hours, and 200C for 1 minute. 400 kcmil conductor size recommended for 600A carry.

(2) Stabilized reading. Contact resistance may exceed spec in the first 3 minutes of current carry.



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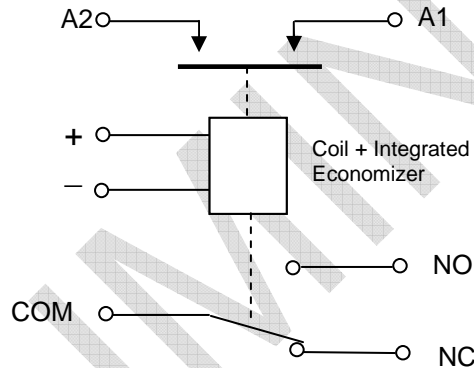
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Coil Data (@ 20 C)

KHR500KAANL/KHR500KSANL

Nominal/Max Coil Voltage	Vdc	24/32
Pickup	Vdc	12
Hold (min)	Vdc	10
Drop Out (max)	Vdc	8
Coil Resistance	Ω	3.3 (PWM) 6/105 (EC)
Coil Inrush Current (typical @ 24Vdc)	A	4.0
Average Source Current (typical @ 24Vdc) Holding	A	0.25
Coil Inrush Time (max)	ms	100
Timing:		
Operate Time (typ.)	ms	30
Operate Bounce (max)	ms	5
Release time (max)	ms	15
Simultaneity – Aux/Main(max)	ms	7

Schematic



KHR500KAANL (PWM Economizer)
KHR500KSANL (Electronic Cut-Throat Economizer)

Coil Wire: 22 AWG, Red = +, Black = Return

Auxiliary: 22 AWG;

Green = COM

Brown = NO

White = NC



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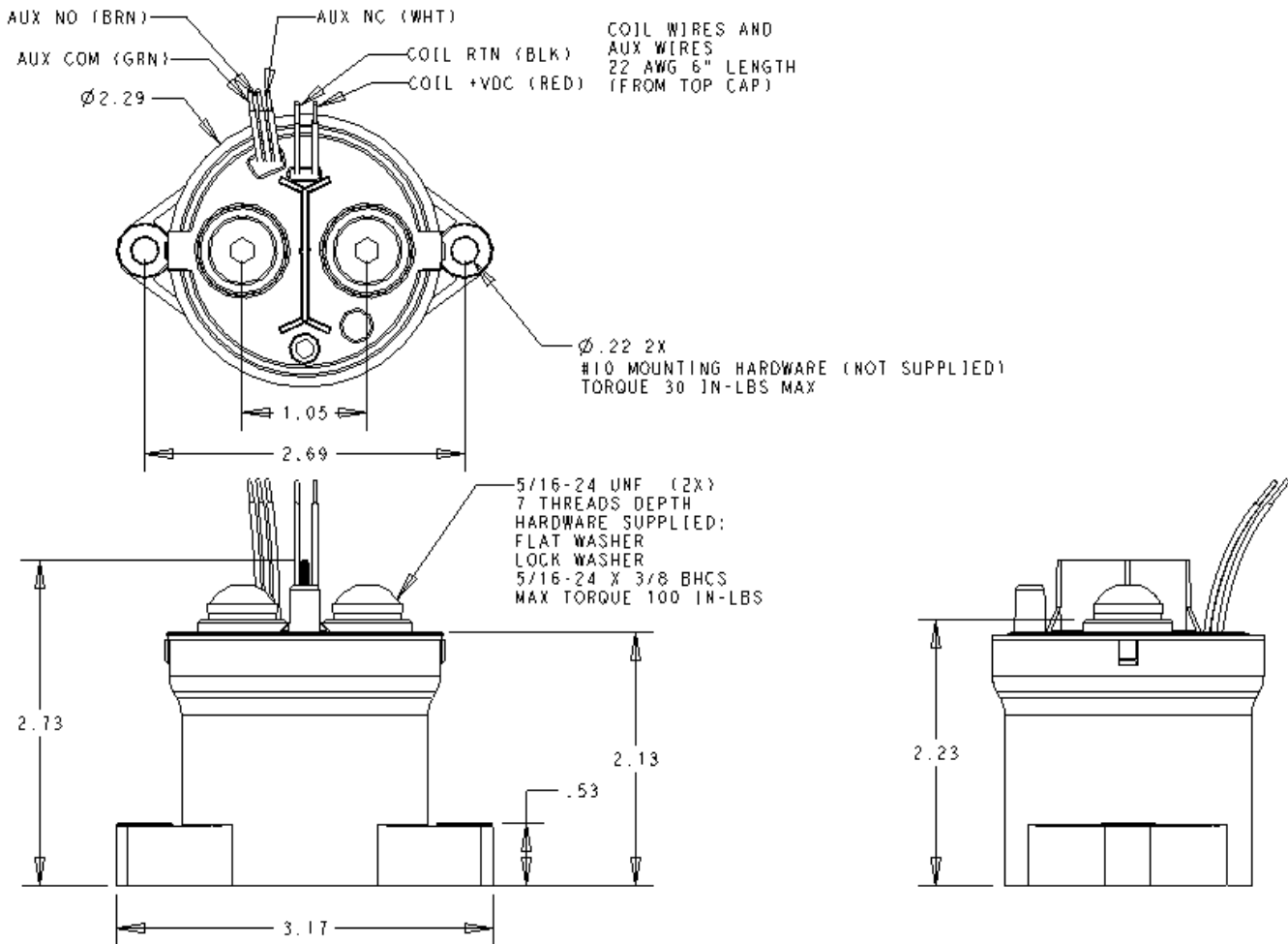
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Outline Drawing



AEROSPACE,
DEFENSE & MARINE

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