



Power Controller to 40A 3 Phase K Series



FEATURES:

- Solid State Relay Assemblies rated to 40A/Pole @ 40° C (100% duty cycle)
- Available in 2 & 3 pole configurations
- Relays approved to the following: UL, CSA, VDE and CE
- Zero voltage switching standard
- Two or three legs controlled
- Voltage transient protection standard on 3 leg models
- LED standard on 3 leg models
- Finger Safe cover standard

OUTPUT SPECIFICATIONS	AC Control		DC Control	
	HBC-T50AK 3 Phase / 3 Pole	HBC-90HAK-2 3 Phase / 2 Pole	HBC-T50DK 3 Phase / 3 Pole	HBC-90HDK-2 3 Phase / 2 Pole
Operating Voltage (47-63 Hz) [Vrms]	48-530	48-530	48-530	48-530
Load Current Range [Arms]	0.1-30 / pole	0.1-40 / pole	0.1-30 / pole	0.1-40 / pole
Transient Overvoltage [Vpk]	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	625	1200	625	1200
Max. On-State Voltage Drop [Vpk]	1.6	1.7	1.6	1.7
Max. Turn-on Time	10.0mS	10.0mS	1/2 cycle	1/2 cycle
Max. Turn-off Time	40.0mS	40.0mS	1/2 cycle	1/2 cycle
Max. I ² t for fusing (8.3mS)	1620	6000	1620	6000
Max. Off-State Leakage Current [mArms]	10	10	10	10
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS				
Control Voltage Range	90-280Vrms (60Hz)	90-280Vrms (60Hz)	3-32Vdc	3-32Vdc
Max. Turn-on Voltage	90Vrms	90Vrms	3.0Vdc	3.0Vdc
Min. Turn-off Voltage	10Vrms	10Vrms	1.0Vdc	1.0Vdc
Nominal Input Impedance [Ohms]	54.8K	60K	450	See *
Typical Input Current	2.2mA @ 120Vrms, 4.4mA @ 240Vrms	2mA @ 120Vrms, 4mA @ 240Vrms	10mA @ 5Vdc	2.0mA *

* Input circuitry incorporates active current limiter.

PREFIX OPTIONS:

(Available only with HBC-90HDK-2 = becomes LPC-90HDK-2)

- TP Time proportioning controller (Burst Fire)
Input: 0-10VDC, 0-5VDC, 2-10VDC, 1-5VDC,
4-20mA, 0-20mA,
Potentiometer, 0-135R (TP135 prefix)
(24VAC Power Supply Required)
- TPLP Loop powered time proportioning controller (Burst Fire)
Input: 4-20mA
- LPC Linear phase angle controller
Input: 0-10VDC, 0-5VDC, 2-10VDC, 1-5VDC,
4-20mA, 0-20mA,
Potentiometer, 0-135R (TP135 prefix)
(24VAC Power Supply Required)

Also Available: Relay Monitoring Boards (See MB Spec)

OPTIONS:

3 Phase / 2 Pole (HBC-90HAK-2 & HBC-90HDK-2)

- 10 Random turn-on
- E 24VAC Control (AC input only)
- Z LED input status indicator (DC input only)
- M MOV - Transient voltage suppression
- P Internal transient voltage suppression
- TP Through panel-mount
- PM Panel-mount
- ND No DIN Clip
- CT Current Transducer

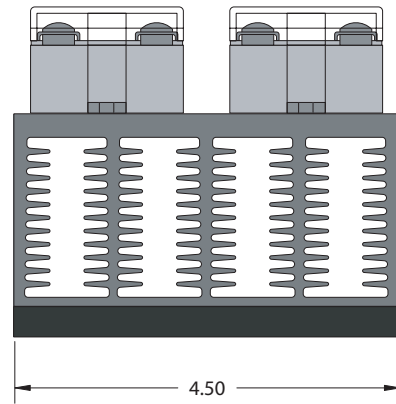
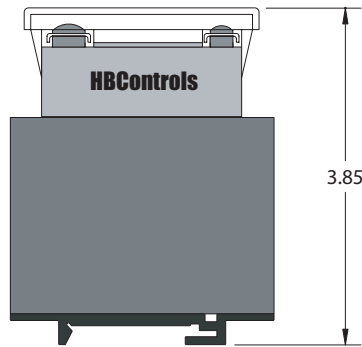
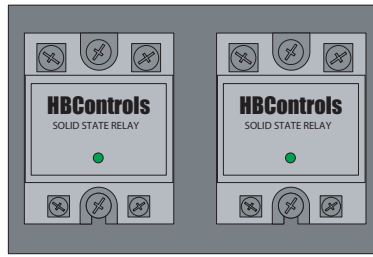
OPTIONS:

3 Phase / 3 Pole (HBC-T50AK & HBC-T50DK)

- TP Through panel-mount
- PM Panel Mount
- ND No DIN Clip

Power Controller to 40A 3 Phase K Series

3 Phase /
2 Pole
HBC-90HAK-2 &
HBC-90HDK-2



3 Phase /
3 Pole
HBC-T50AK &
HBC-T50DK

