



Power Controller to 70A K Series



FEATURES:

- Solid State Relay Assemblies rated to 70A/pole @ 40° C (100% duty cycle)
- Available in 1 & 2 pole configurations
- Relays approved to the following: UL, CSA, VDE and CE
- Zero cross switching standard
- Finger safe cover standard
- Phase angle & time proportioning control optional

OUTPUT SPECIFICATIONS	AC			DC		
	HBC-90HAXK	HBC-690HAXK	HBC-125HAXK	HBC-90HDXK	HBC-690HDXK	HBC-125HDXK
Operating Voltage (47-63 Hz) [Vrms]	48-530	48-660	48-530	48-530	48-660	48-530
Load Current Range [Arms]	.04-60	.04-60	.04-70	.04-60	.04-60	.04-70
Transient Overvoltage [Vpk]	1200	1200	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	1200	1200	1750	1200	1200	1750
Max. On-State Voltage Drop [Vpk]	1.7	1.7	1.7	1.7	1.7	1.7
Max. Turn-on Time	10.0mS	10.0mS	10.0mS	1/2 cycle	1/2 cycle	10.0mS
Max. Turn-off Time	40.0mS	40.0mS	40.0mS	1/2 cycle	1/2 cycle	40.0mS
Max. I ² t for fusing (8.3mS)	6000	6000	12,700	6000	6000	12,700
Max. Off-State Leakage Current [mArms]	10	5	10	10	5	10
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS						
Control Voltage Range	90-280Vrms	90-280Vrms	90-280Vrms	3-32Vdc	3-32Vdc	3-32Vdc
Max. Turn-on Voltage	90Vrms	90Vrms	90Vrms	3.0Vdc	3.0Vdc	3.0Vdc
Min. Turn-off Voltage	10Vrms	10Vrms	10Vrms	1.0Vdc	1.0Vdc	1.0Vdc
Nominal Input Impedance [Ohms]	60K Ohms	60K Ohms	60K Ohms	See Note *	See Note *	1500 **
Typical Input Current	2mA @ 120Vrms, 4mA @ 240Vrms			2.0 mA *	2.0 mA *	3.4mA @ 5Vdc, 20mA @ 28Vdc **

* Input circuitry incorporates active current limiter.

** Input circuitry for 480V models incorporates active current limiter with 2mA typical input current.

INPUT OPTIONS (DC Control only)

Change HBC Prefix To: (Ex: HBC-90HDXK = LPC-90HDXK)

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

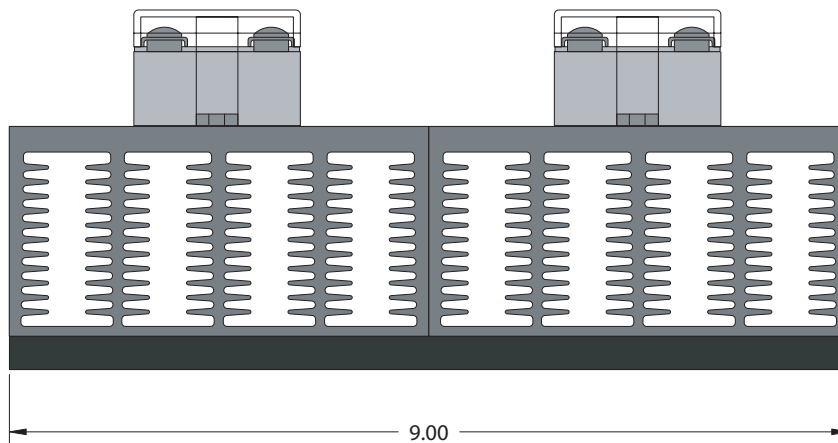
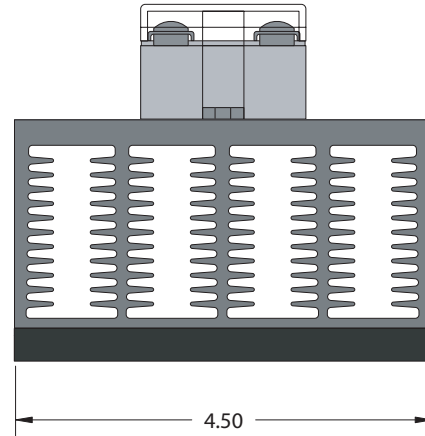
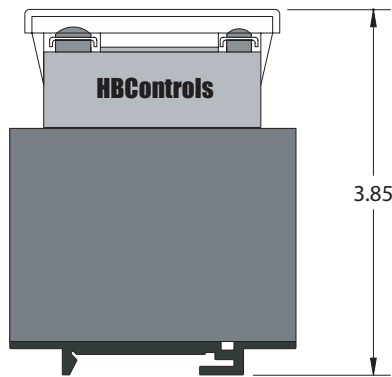
LPC Linear phase angle controller
Input: 0-10VDC, 0-5VDC, 2-10VDC, 1-5VDC, 4-20mA, 0-20mA,
Potentiometer, 0-135R (TP135 prefix)
(24VAC Power Supply Required)

Also Available: Relay Monitoring Boards (See MB Spec Sheets)

OPTIONS:

- 10 Random turn-on
- 2 3 Phase / 2 Pole configuration
- WH Wiring harness for multi-pole configurations
- E 24VAC Control (AC input only)
- Z LED input status indicator (DC input only)
- M MOV - External transient voltage suppression
- P Internal transient voltage suppression
- TP Through panel-mount
- PM Panel Mount
- ND No DIN Clip
- CT Current Transducer

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3 Phase /
2 Pole
(-2 Option)