



Power Controller to 40A A Series



FEATURES:

- Solid State Relay Assemblies rated to 40A/pole @ 40° C (100% duty cycle)
- Available in 1, 2 & 3 Pole configurations
- Relays approved to the following: UL, CSA, VDE and CE
- Zero cross switching standard
- Finger safe covers & DIN mount standard

OUTPUT SPECIFICATIONS	AC Control					
	HBC-25AA	HBC-25HAA	HBC-50AA	HBC-50HAA	HBC-90HAA	HBC-690HAA
Operating Voltage (47-63 Hz) [Vrms]	24-280	48-530	24-280	48-530	48-530	48-660
Load Current Range [Arms]	.04-20	.04-20	.04-30	.04-30	.04-40	.04-40
Transient Overvoltage [Vpk]	600	1200	600	1200	1200	1200
Max. Surge Current, (16.6ms) (Apk)	250	250	625	625	1200	1200
Max. On-State Voltage Drop [Vpk]	1.6	1.7	1.6	1.7	1.7	1.7
Max. Turn-on Time (mS)	10	10	10	10	10	10
Max. Turn-off Time (mS)	40	40	40	40	40	40
Max. I ² t for fusing (8.3mS)	260	260	1620	1620	6000	6000
Max. Off-State Leakage Current [mArms]	10	10	10	10	10	5
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS						
Control Voltage Range [Vrms]	90-280	90-280	90-280	90-280	90-280	90-280
Max. Turn-on Voltage [Vrms]	90	90	90	90	90	90
Min. Turn-off Voltage [Vrms]	10	10	10	10	10	10
Nominal Input Impedance [Ohms]	60K	60K	60K	60K	60K	60K
Typical Input Current	2mA @ 120Vrms, 4mA @ 240Vrms					

OPTIONS:

- 10 Random turn-on
- 2 3 Phase / 2 Pole configuration
- 3 3 Phase / 3 Pole configuration
- WH Wiring harness for multi-pole configurations
- E 24VAC Control
- M MOV - external transient voltage suppression
- P Internal transient voltage suppression
- F Fast-on terminals
- 4 400 MHZ operation available on some assemblies)
- TP Through panel-mount
- PM Panel Mount
- ND No DIN Clip
- CT Current Transducer



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- Zero cross switching standard
- Finger safe covers & DIN mount standard
- Phase angle & time proportioning control optional

OUTPUT SPECIFICATIONS	DC Control					
	HBC-25DA	HBC-25HDA	HBC-50DA	HBC-50HDA	HBC-90HDA	HBC-690HDA
Operating Voltage (47-63 Hz) [Vrms]	24-280	48-530	24-280	48-530	48-530	48-660
Load Current Range [Arms]	.04-20	.04-20	.04-30	.04-30	.04-40	.04-40
Transient Overvoltage [Vpk]	600	1200	600	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	250	250	625	625	1200	1200
Max. On-State Voltage Drop [Vpk]	1.6	1.7	1.6	1.7	1.7	1.7
Max. Turn-on and Turn-off Time	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Max. I ² t for fusing (8.3mS)	260	260	1620	1620	6000	6000
Max. Off-State Leakage Current [mArms]	10	10	10	10	10	5
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS						
Control Voltage Range [Vdc]	3-32	3-32	3-32	3-32	3-32	3-32
Max. Turn-on Voltage [Vdc]	3.0	3.0	3.0	3.0	3.0	3.0
Min. Turn-off Voltage [Vdc]	1.0	1.0	1.0	1.0	1.0	1.0
Nominal Input Impedance [Ohms]	1500	See *	1500	See *	See *	See *
Typical Input Current	3.4mA @ 5Vdc, 20mA @ 28Vdc	2.0mA *	3.4mA @ 5Vdc, 20mA @ 28Vdc	2.0mA *	2.0mA *	2.0mA *

* Input circuitry incorporates active current limiter

INPUT OPTIONS

Change HBC Prefix To:

(Ex: HBC-25HDA = LPC-25HDA)

- TP Time proportioning controller (Burst Fire)
Input: 0-10VDC, 0-5VDC, 2-10VDC, 1-5VDC, 4-20mA, 0-20mA, Potentiometer, 0-135Ω (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, 0-135Ω (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
- 3 3 Phase / 3 Pole configuration
- WH Wiring harness for multi-pole configurations
- Z LED input status indicator
- M MOV - External transient voltage suppression
- P Internal transient voltage suppression
- F Fast-on terminals
- 4 400 MHZ operation available on some assemblies)
- TP Through panel-mount
- PM Panel Mount
- ND No DIN Clip
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