



# Power Controller to 80A F7 Series

221 Weaver Street, Fall River, MA 02720

Tel# 508-676-7345 • 800-879-7918 • Fax# 508-676-7346

www.hbcontrols.com



- Solid State Relay assemblies rated to 80A/pole @ 40° C (100% duty cycle)
- Zero cross switching standard
- 90° C over-temp cutout switch standard
- Relays & fan: UL, CSA, VDE, CE
- LED status indicator standard
- Optional DIN rail mounted to front for power supplies or other small DIN mounted units
- Ball bearing fan standard; 50/60 Hz
- (1) Fan options: B - 120VAC fan, C - 240VAC fan, I - 24VDC fan (Add letter of fan to end of part number EX: HBC-690CAF73B – Denotes 3 phase, 3 pole, w/120VAC fan)

OUTPUT SPECIFICATIONS	AC Control	DC Control
	<b>HBC-690CAF73(1)</b>	<b>HBC-690CDF73(1)</b>
	3 Phase / 3 Pole	3 Phase / 3 Pole
Operating Voltage (47-63 Hz)	48-660VAC	48-660VAC
Load Current Range	0.04-80A	0.04-80A
Transient Over Voltage [Vpk]	1200	1200
Max. Surge Current, (16.6ms) [Apk]	1200	1200
Max. On-State Voltage Drop [Vpk]	1.7	1.7
Max. Turn-On	½ cycle	½ cycle
Max. Turn-Off Time	½ cycle	½ cycle
Max I <sup>2</sup> t for Fusing (8.3mS)	6000	6000
Max Off-State Leakage Current [mArms]	1	1
Power Factor (Min.) with Max. Load	0.5	0.5
INPUT SPECIFICATIONS		
Control Voltage Range	90-140Vrms (60Hz)	4-32Vdc
Max. Turn-On Voltage	90Vrms	4.0Vdc
Min. Turn-Off Voltage	10Vrms	1.0Vdc
Max. Input Current	—	30mA
Typical Input Current	15mA @ 120Vrms	14mA @ 5Vdc

Options:

- |     |  |     |  |
|-----|--|-----|--|
| -10 | Random turn-on                               | -M  | MOV – External transient voltage suppression |
| -WH | Wiring harness for multi-pole configurations | -P  | Internal transient voltage suppression       |
| -E  | 24VAC Control (AC Control Only)              | -D  | DIN mount                                    |
| -FD | Front DIN rail mount                         | -CT | Current Transducer                           |



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