



# Time Proportioning Power Control to 70A K Series TP



## FEATURES:

- Command input accepts 4-20mA, 0-10V, 0-5V, 0-135Ω, Potentiometer
- Configurable for 4 different cycle times
- Drives multiple solid state relays (SSRs)
- LED output indicator
- Adjustable Power Limit (-PL) Option
- Single phase and three phase control
- Solid State Relay Assemblies rated to 70A/Pole @ 40°C (100% duty cycle)
- Suitable for inductive loads (w -10 option)
- Standard relays approved to the following: UL CE, CSA & VDE

OUTPUT SPECIFICATIONS	TP-90HDK-2			
	TP-90HDXK	TP-690HDXK	TP-125HDXK	3 Phase / 2 Pole
Operating Voltage (47-63 Hz) [Vrms]	48-530	48-660	48-530	48-530
Load Current Range [Arms]	.04-60	.04-60	.04-70	0.1-40 / pole
Transient Overvoltage [Vpk]	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [A <sub>pk</sub> ]	1200	1200	1750	1200
Max. On-State Voltage Drop [Vpk]	1.7	1.7	1.7	1.7
Max. Turn-on Time	1/2 cycle	1/2 cycle	10.0mS	1/2 cycle
Max. Turn-off Time	1/2 cycle	1/2 cycle	40.0mS	1/2 cycle
Max. I <sup>2</sup> t for fusing (8.3mS)	6000	6000	12,700	6000
Max. Off-State Leakage Current [mArms]	10	5	10	10
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5

## INPUT SPECIFICATIONS:

0-10VDC  
 0-5VDC  
 2-10VDC  
 1-5VDC  
 4-20mA  
 0-20mA  
 Potentiometer  
 0-135Ω (TP135-90HDXK)

## OPTIONS:

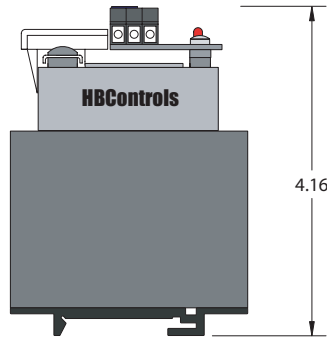
-10 Random turn-on  
 -2 3 Phase / 2 Pole configuration  
 -WH Wiring harness for multi-pole configurations  
 -M MOV - External transient voltage suppression  
 -P Internal transient voltage suppression  
 -TP Through panel-mount  
 -PM Panel Mount  
 -ND No DIN Clip  
 -CT Current Transducer

## ACCESSORIES

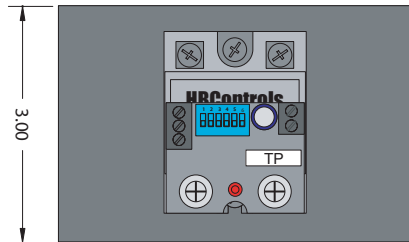
PS-120 120V to 24V AC power supply (1.5VA)  
 PS-240 240V to 24V AC power supply (1.5VA)  
 PS-480 480V to 24V AC power supply (1.5VA)



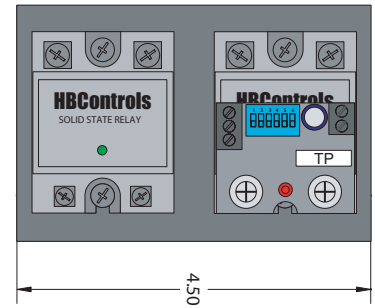
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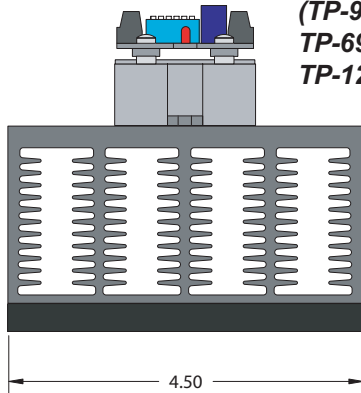
**Single Phase**  
(TP-90HDXX,  
TP-690HDXX &  
TP-125HDXX)



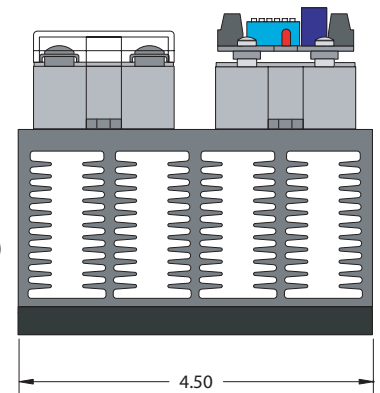
**3 Phase /  
2 Pole**  
@ 40A/Pole  
(TP-90HDK-2)



**Single Phase**  
(TP-90HDXX,  
TP-690HDXX &  
TP-125HDXX)



**3 Phase /  
2 Pole**  
@ 40A/Pole  
(TP-90HDK-2)



**Three Phase /  
2 Pole**  
@ 70A/Pole  
(TP-90HDXX-2,  
TP-690HDXX-2 &  
TP-125HDXX-2)

