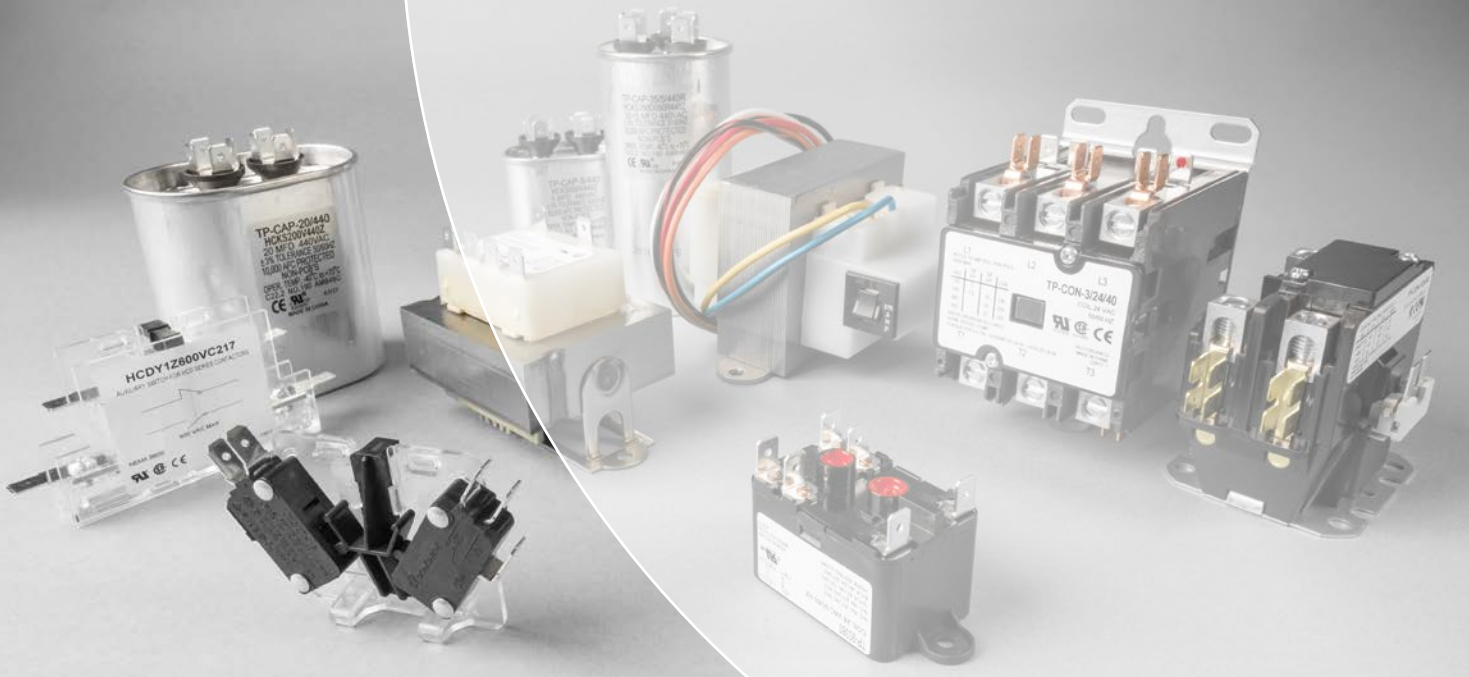




# **TP TRADE PRO**

FOR INDUSTRY PROFESSIONALS

## Wholesale & Distribution Buying Guide & Catalog



# OEM QUALITY ELECTRICAL CONTROLS, DESIGNED FOR THE HVACR MARKET

At Hartland Controls, we don't just source electrical controls, we design domestically, manufacture internationally, and inventory locally. Our team of engineering, testing, quality, customer service and warehousing professionals focuses solely on contactors, capacitors, relays, hard starts and auxiliary switches. With TradePro you can be confident that you're stocking the highest quality controls to meet your customers' needs.

A grayscale background image of a warehouse interior, showing a forklift in the foreground and high industrial shelving units in the background.

## PERSONALIZED SERVICE— READY WHEN YOU ARE

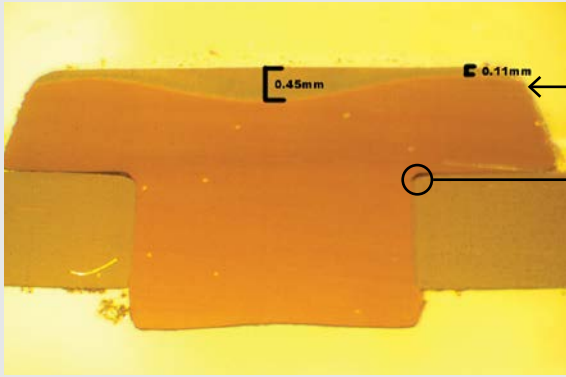
Deep industry knowledge for exceptional customer service  
Watsco sells an expansive line of products and maintains a diverse mix of inventory to meet its customers' immediate needs and seeks to provide products a contractor would generally require when installing or repairing a central air conditioner, furnace or refrigeration system on short notice. Watsco serves more than 88,000 contractors and dealers who service the replacement and new construction markets for residential and light commercial central air conditioning, heating and refrigeration systems.

# STOCK THE QUALITY COMPONENTS YOUR CONTRACTORS WANT

## CHECK FOR CONTACTOR QUALITY

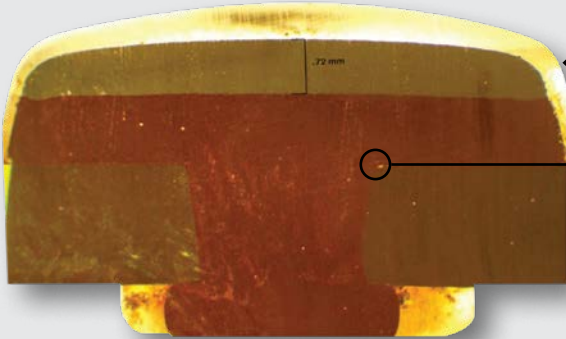


- ✓ Double E magnet assembly for optimal performance with reduced power use
- ✓ Movable contacts with heavy duty silver cadmium oxide for long life
- ✓ Actuator molded from high arc resistant polyester
- ✓ 4-14 aluminum ASG box lug standard
- ✓ One piece terminal design meets NEMA standard for spacing without insulated terminals
- ✓ Manual test button directly closes movable contacts without energizing the coil



### Competitor contactor construction

- Thin silver content reduces product life and increases risk of welding
- Poor contact staking cause heat buildup and product failure



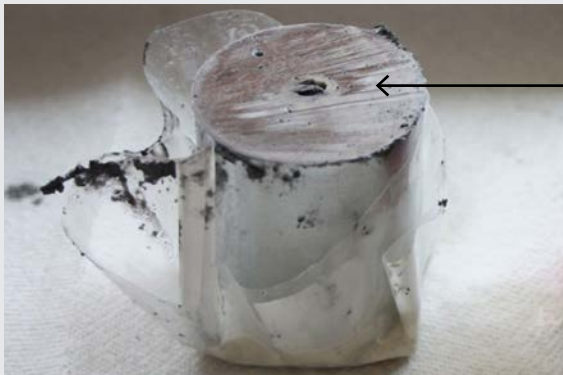
### TradePro Contactor advantages

- Consistent silver thickness, edge-to-edge, for increased product life
- Engineered automated staking eliminates heat buildup and reduces product failure



### CHECK FOR CAPACITOR QUALITY

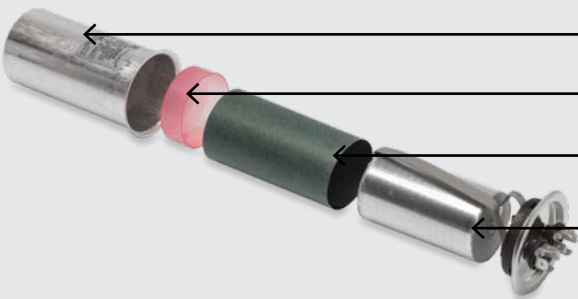
- ✓ -40°C to 70°C (-40°F to 158°F) operating temperature
- ✓ 60,000 hour life at rated temperature
- ✓ Accelerated life test performance: 2000 hours @ 125% rated voltage @ 80°C
- ✓ Thick, seven micrometer film for greater reliability and quality
- ✓ Vacuum sealed to eliminate leaks and/or contaminates
- ✓ 1.5mm plastic cup to support Mylar film rolls
- ✓ Nomex sleeve to protect and insulate Mylar film rolls
- ✓ Tested per EIA-456-A Standards—Industry BEST +/-3% tolerance
- ✓ 10,000 AFC protected
- ✓ UL / CSA / VDE approved



### Competitor capacitor construction

- Uses a 6 micrometer film
- Lack of plastic cup and Nomex sleeve increases product failure

### TradePro capacitor advantages



- High-quality, rigid aluminum can for longer life
- Plastic cup supports film rolls
- Nomex sleeve protects and insulates film rolls
- Industry-leading quality with 7 micrometer thick Mylar film rolls for greater reliability

# CONTACTORS



Part No.	Poles	Coil Volt	FLA
TP-CON-1/24/30	1	24 VAC	30
TP-CON-1/120/30	1	120 VAC	30
TP-CON-1/240/30	1	208/240 VAC	30
TP-CON-1/24/40	1	24 VAC	40
TP-CON-1/120/40	1	120 VAC	40
TP-CON-1/240/40	1	208/240 VAC	40
TP-CON-2/24/30	2	24 VAC	30
TP-CON-2/120/30	2	120 VAC	30
TP-CON-2/240/30	2	208/240 VAC	30
TP-CON-2/24/40	2	24 VAC	40
TP-CON-2/120/40	2	120 VAC	40
TP-CON-2/240/40	2	208/240 VAC	40
TP-CON-3/24/30	3	24 VAC	30
TP-CON-3/120/30	3	120 VAC	30
TP-CON-3/240/30	3	208/240 VAC	30
TP-CON-3/480/30	3	480 VAC	30
TP-CON-3/24/40	3	24 VAC	40
TP-CON-3/120/40	3	120 VAC	40
TP-CON-3/240/40	3	208/240 VAC	40
TP-CON-3/480/40	3	480 VAC	40
TP-CON-3/24/50D	3	24 VAC	50

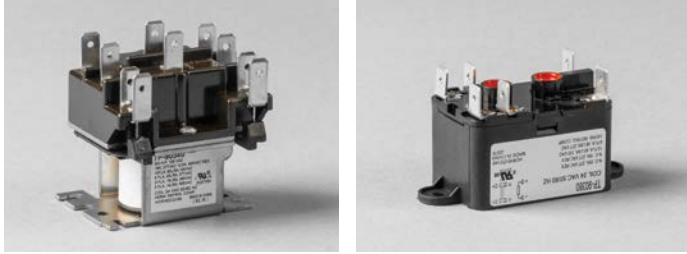
Part No.	Poles	Coil Volt	FLA
TP-CON-3/120/50D	3	120 VAC	50
TP-CON-3/240/50D	3	208/240 VAC	50
TP-CON-3/480/50D	3	480 VAC	50
TP-CON-3/24/60D	3	24 VAC	60
TP-CON-3/120/60D	3	120 VAC	60
TP-CON-3/240/60D	3	208/240 VAC	60
TP-CON-3/480/60D	3	480 VAC	60
TP-CON-3/24/75	3	24 VAC	75
TP-CON-3/120/75	3	120 VAC	75
TP-CON-3/240/75	3	208/240 VAC	75
TP-CON-3/480/75	3	480 VAC	75
TP-CON-3/24/90	3	24 VAC	90
TP-CON-3/120/90	3	120 VAC	90
TP-CON-3/240/90	3	208/240 VAC	90
TP-CON-3/480/90	3	480 VAC	90
TP-CON-3/24/120	3	24 VAC	120
TP-CON-3/120/120	3	120 VAC	120
TP-CON-3/240/120	3	208/240 VAC	120
TP-CON-3/480/120	3	480 VAC	120

# AUXILIARY SWITCHES



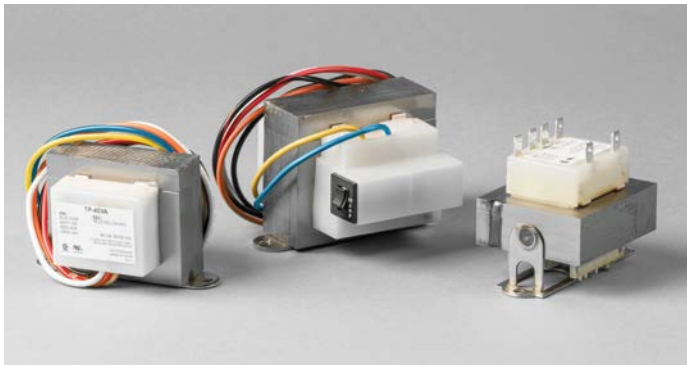
Part No.	Description
TP-CON-AUX300V-1D	SPDT
TP-CON-AUX300V-2D	2SPDT
TP-CON-AUX600V-1D	1NO/1NC

## RELAYS



Part No.	Description
TP-90370	SPDT 24V
TP-90293	SPDT 24V
TP-90294	SPDT 120V
TP-90295	SPDT 240V
TP-90290	SPNO 24V
TP-90291	SPNO 120V
TP-90292	SPNO 240V
TP-90380	1NO/1NC 24V
TP-90340	DPDT 24V
TP-90341	DPDT 120V
TP-90342	DPDT 240V

## TRANSFORMERS



Part No.	Description
TP-40VA	120-208-240/24V 40VA
TP-40VA-QC	120-208-240/24 40VA Q.C.s
TP-50VA	120-208-240/24V 50VA
TP-75VA-MULTI	120-208-240-480/24V 75VA

## HARTLAND CONTROLS HARD START CAPACITORS



Part No.	Description
HHS-410	Use on 1/4 to 1/3 HP HVAC High Efficiency Compressor or Refrigeration Unit
HHS-810	Use on 1/12 to 1/5 HP HVAC High Efficiency Compressor or Refrigeration Unit
HHS-5	Use on 1/2 to 10 HP Single Phase HVAC Compressor or Refrigeration Unit
HHS-6	Use on 1/2 to 10 HP Single Phase HVAC Compressor or Refrigeration Unit
HHS-7E	Use on 1 to 4 HP HVAC Compressor or Refrigeration Unit
HHS-8E	Use on 1 to 5 HP HVAC Compressor or Refrigeration Unit

# MOTOR CAPACITORS



### Part No. Breakdown Example (Motor Capacitors)

TP-CAP-5/440:	TP-CAP-VALUE/VOLTAGE
TP-CAP-45/440R:	TP-CAP-VALUE/VOLTAGE "R"
TP-CAP-35/5/440R:	TP-CAP-VALUE/VALUE/VOLTAGE "R"

"R" is the designator for Round Capacitors

For all your motor run capacitor needs.

- » Single and dual rated values
- » Round or oval case options
- » Designed & manufactured in accordance with EIA-456
- » Capacitance  $\pm 3\%$
- » Operating Life—60,000 hours
- » Operating Temp -40°C to 70°C
- » **Multipurpose 370 or 440 VAC**

See the back cover for Motor Capacitor part numbers.



## Are your customers installing quality capacitors?

Our capacitors are designed and tested to exacting standards, so you don't have to worry about failures or callbacks.

# MOTOR RUN CAPACITORS

Part No.	Description	Part No.	Description	Part No.	Description
TP-CAP-3/440R	3 MFD 440V Round	TP-CAP-30/15/440R	30+15 MFD 440V Round	TP-CAP-55/4/440R	55+4 MFD 440V Round
TP-CAP-3/440	3 MFD 440V Oval	TP-CAP-30/440R	30 MFD 440V Round	TP-CAP-55/5/440R	55+5 MFD 440V Round
TP-CAP-4/440R	4 MFD 440V Round	TP-CAP-30/440	30 MFD 440V Oval	TP-CAP-55/5/440	55+5 MFD 440V Oval
TP-CAP-4/440	4 MFD 440V Oval	TP-CAP-35/1/440R	35+1 MFD 440V Round	TP-CAP-55/7.5/440R	55+7.5 MFD 440V Round
TP-CAP-5/440R	5 MFD 440V Round	TP-CAP-35/3/440R	35+3 MFD 440V Round	TP-CAP-55/7.5/440	55+7.5 MFD 440V Oval
TP-CAP-5/440	5 MFD 440V Oval	TP-CAP-35/3/440V	35+3 MFD 440V Oval	TP-CAP-55/10/440R	55+10 MFD 440V Round
TP-CAP-6/440	6 MFD 440V Oval	TP-CAP-35/5/440R	35+5 MFD 440V Round	TP-CAP-55/15/440R	55+15 MFD 440V Round
TP-CAP-7.5/440R	7.5 MFD 440V Round	TP-CAP-35/5/440	35+5 MFD 440V Oval	TP-CAP-55/440R	55 MFD 440V Round
TP-CAP-7.5/440	7.5 MFD 440V Oval	TP-CAP-35/7.5/440R	35+7.5 MFD 440V Round	TP-CAP-55/440	55 MFD 440V Oval
TP-CAP-10/10/440R	10+10 MFD 440V Round	TP-CAP-35/7.5/440	35+7.5 MFD 440V Oval	TP-CAP-60/5/440R	60+5 MFD 440V Round
TP-CAP-10/440R	10 MFD 440V Round	TP-CAP-35/10/440R	35+10 MFD 440V Round	TP-CAP-60/5/440	60+5 MFD 440V Oval
TP-CAP-10/440	10 MFD 440V Oval	TP-CAP-35/10/440	35+10 MFD 440V Oval	TP-CAP-60/7.5/440R	60+7.5 MFD 440V Round
TP-CAP-12.5/440R	12 MFD 440V Round	TP-CAP-35/15/440R	35+15 MFD 440V Round	TP-CAP-60/10/440R	60+10 MFD 440V Round
TP-CAP-12.5/440	12.5 MFD 440V Oval	TP-CAP-35/440R	35 MFD 440V Round	TP-CAP-60/10/440	60+10 MFD 440V Oval
TP-CAP-15/3/440R	15+3 MFD 440V Round	TP-CAP-35/440	35 MFD 440V Oval	TP-CAP-60/440R	60 MFD 440V Round
TP-CAP-15/5/440R	15+5 MFD 440V Round	TP-CAP-40/1/440R	40+1 MFD 440V Round	TP-CAP-60/440	60 MFD 440V Oval
TP-CAP-15/7.5/440R	15+7.5 MFD 440V Round	TP-CAP-40/3/440R	40+3 MFD 440V Round	TP-CAP-65/7.5/440R	65+7.5 MFD 440V Round
TP-CAP-15/10/440R	15+10 MFD 440V Round	TP-CAP-40/4/440R	40+4 MFD 440V Round	TP-CAP-70/5/440R	70+5 MFD 440V Round
TP-CAP-15/440R	15 MFD 440V Round	TP-CAP-40/5/440R	40+5 MFD 440V Round	TP-CAP-70/5/440	70+5 MFD 440V Oval
TP-CAP-15/440	15 MFD 440V Oval	TP-CAP-40/5/440	40+5 MFD 440V Oval	TP-CAP-70/7.5/440R	70+7.5 MFD 440V Round
TP-CAP-17.5/440	17.5 MFD 440V Oval	TP-CAP-40/7.5/440R	40+7.5 440V Round	TP-CAP-70/10/440R	70+10 MFD 440V Round
TP-CAP-20/5/440R	20+5 MFD 440V Round	TP-CAP-40/7.5/440	40+7.5 MFD 440V Oval	TP-CAP-70/440R	70 MFD 440V Round
TP-CAP-20/5/440	20+5 MFD 440V Oval	TP-CAP-40/10/440R	40+10 MFD 440V Round	TP-CAP-70/440	70 MFD 440V Oval
TP-CAP-20/7.5/440R	20+7.5 MFD 440V Round	TP-CAP-40/10/440	40+10 MFD 440V Oval	TP-CAP-80/5/440R	80+5 MFD 440V Round
TP-CAP-20/10/440R	20+10 MFD 440V Round	TP-CAP-40/440R	40 MFD 440V Round	TP-CAP-80/5/440	80+5 MFD 440V Oval
TP-CAP-20/440R	20 MFD 440V Round	TP-CAP-40/440	40 MFD 440V Oval	TP-CAP-80/7.5/440R	80+7.5 MFD 440V Round
TP-CAP-20/440	20 MFD 440V Oval	TP-CAP-45/3/440R	45+3 MFD 440V Round	TP-CAP-80/7.5/440	80+7.5 MFD 440V Oval
TP-CAP-25/5/440R	25+5 MFD 440V Round	TP-CAP-45/5/440R	45+5 MFD 440V Round	TP-CAP-80/10/440R	80+10 MFD 440V Round
TP-CAP-25/5/440	25+5 MFD 440V Oval	TP-CAP-45/5/440	45+5 MFD 440V Oval	TP-CAP-80/440R	80 MFD 440V Round
TP-CAP-25/7.5/440R	25+7.5 MFD 440V Round	TP-CAP-45/7.5/440R	45+7.5 MFD 440V Round	TP-CAP-80/440	80 MFD 440V Oval
TP-CAP-25/7.5/440	25+7.5 MFD 440V Oval	TP-CAP-45/7.5/440	45+7.5 MFD 440V Oval		
TP-CAP-25/10/440R	25+10 MFD 440V Round	TP-CAP-45/10/440R	45+10 MFD 440V Round		
TP-CAP-25/15/440	25+15 MFD 440V Oval	TP-CAP-45/10/440R	45+10 MFD 440V Round		
TP-CAP-25/440R	25 MFD 440V Round	TP-CAP-45/440R	45 MFD 440V Round		
TP-CAP-25/440	25 MFD 440V Oval	TP-CAP-45/440	45 MFD 440V Oval		
TP-CAP-30/3/440R	30+3 MFD 440V Round	TP-CAP-50/5/440R	50+5 MFD 440V Round		
TP-CAP-30/5/440R	30+5 MFD 440V Round	TP-CAP-50/5/440	50+5 MFD 440V Oval		
TP-CAP-30/5/440	30+5 MFD 440V Oval	TP-CAP-50/7.5/440R	50+7.5 MFD 440V Round		
TP-CAP-30/5/440	30+5 MFD 440V Oval	TP-CAP-50/7.5/440	50+7.5 MFD 440V Oval		
TP-CAP-30/7.5/440R	30+7.5 MFD 440V Round	TP-CAP-50/10/440R	50+10 MFD 440V Round		
TP-CAP-30/7.5/440	30+7.5 MFD 440V Oval	TP-CAP-50/440R	50 MFD 440V Round		
TP-CAP-30/10/440R	30+10 MFD 440V Round	TP-CAP-50/440	50 MFD 440V Oval		

Some products may not be available for sale in Mexico or Canada.  
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