

DEFINITE PURPOSE CONTACTOR

TITAN MAX[®]

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DESIGNED TO TAKE YOUR JOB TO THE **MAX**,
IT'S THE ONLY CONTACTOR YOU'LL NEED TO KNOW



REFRIGERATION TO THE **MAX**

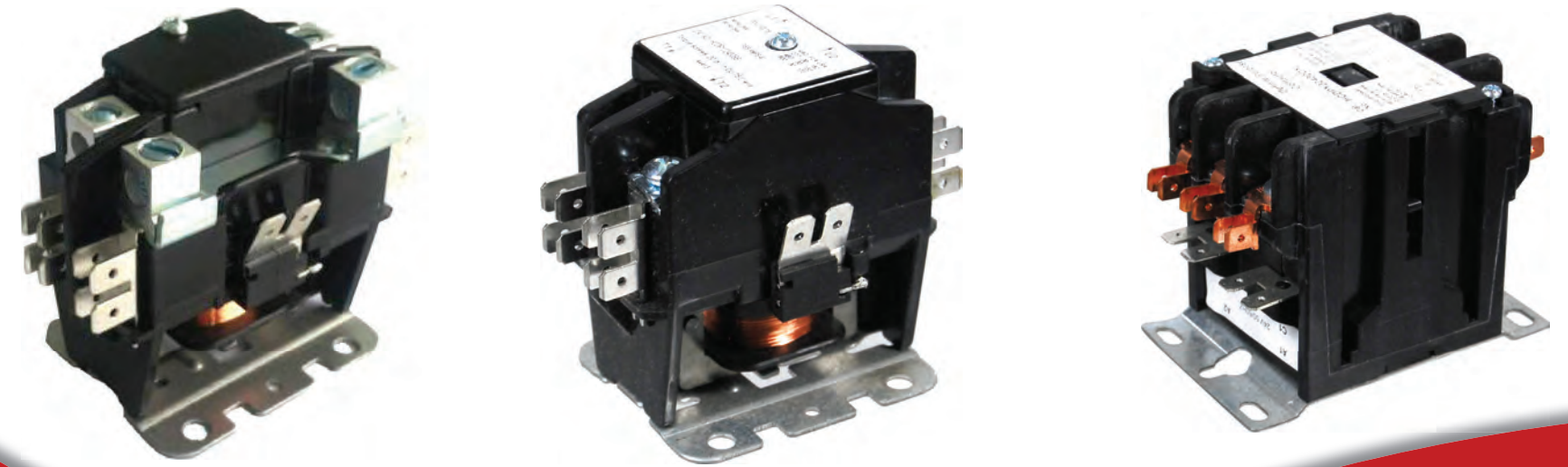


Meet your new go-to contactor for refrigeration applications and beyond.

With life cycles exceeding 250,000 electrical and 1,000,000 mechanical, the Titan Max® line of definite purpose contactors and auxiliary switches are built to offer you maximum dependability. It's an ideal one-for-one replacement for the Furnas DP contactor, and no matter which way it's mounted, its performance remains strong. It also meets the ARI 780/790 standard.

OUT WITH THE "OLD" IN WITH THE **IMPROVED**

DIRECT REPLACEMENT FOR FURNAS DP CONTACTOR AND MANY OTHERS



Offered in 1, 2 and 3-pole configurations and load ratings up to 90 amps.

FEATURES

- ✓ New easy to remove top allows for quick access to the coil
- ✓ Universal metal mounting plate allows for complete ease of replacement of other leading contactors
- ✓ Long electrical life - tested to 250,000 cycles
- ✓ Reliable mechanical life - tested to 1,000,000 cycles
- ✓ EE magnet assembly assures optimal performance without sacrificing power consumption
- ✓ Performance unaffected by mounting position
- ✓ Flexible termination options suitable for various applications
- ✓ Dust-free internal construction and heavy-duty contacts
- ✓ All ratings provided with spades and lugs
- ✓ Meets the ARI 780/790 standard
- ✓ Class F Coil insulation
- ✓ UL, CUR Recognized 

APPLICATIONS

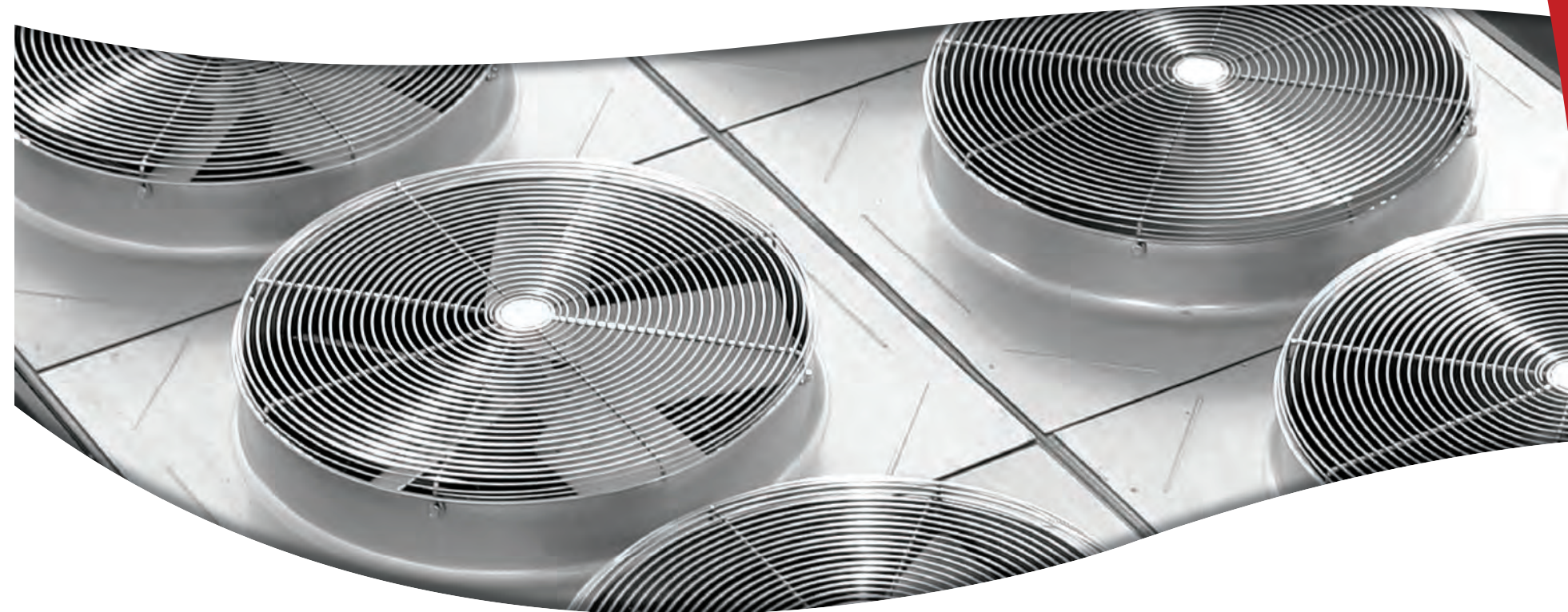
Designed ideally for the HVACR industry, the most common applications of our contactors are found in Refrigeration, Air Conditioning and Heating.

- Other applications include:
- Food service equipment
 - Vending machines
 - Compressors
 - Pumps
 - Cranes
 - Hoists
 - Welding machines
 - Power supplies
 - Lighting

Rated insulation voltage	690 Vrms
Di-electric strength	2500Vrms (coil to contact & contact to contact)
Conforms to	IEC 60947-4-1, GB14048.4, EN60947-4, ARI780 / 790
Agency approvals	UL, CUR file E246810
Operating position	Vertical and horizontal mounting recommended
Operating altitude	2000 meters without derating
Ambient temperature	Operating: -25°C to 70°C *, storage -40°C to 70°C
Shock resistance	Contact open: 6g ; contact closed: 15g
Vibration resistance (5-300Hz)	Contact open: 2g ; contact closed: 4g
Weight	20-40A: 230-420g, 50/63A: 650g, 75/90A: 1550g
Torque	Screws 20 lb-in/Lugs 40 lb-in for 20-40FLA types Screws 40 lb-in/Lugs 60 lb-in for 50-63FLA types Screws 50 lb-in/Lugs 60 lb-in for 75-90FLA types Screws 8 lb-in for auxiliary contact blocks Coil screws 8 lb-in for 3-pole 30-40FLA and 12 lb-in for 50-90FLA types Main screws 12 lb-in/auxiliary screws 8 lb-in/ Coil screws 8 lb-in for small frame types
QC wiring	The female connector should meet IEC 60760, necessary to ensure the reliability of connection between female connectors and QC terminals

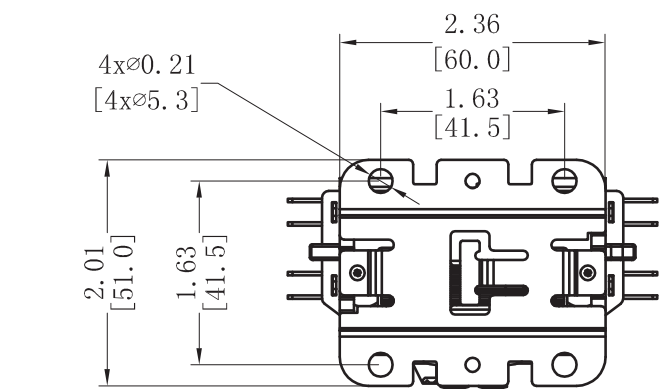
* The overall combined temperature must not exceed the coil insulation max temperature of 155° C.

VERSATILE TO THE MAX

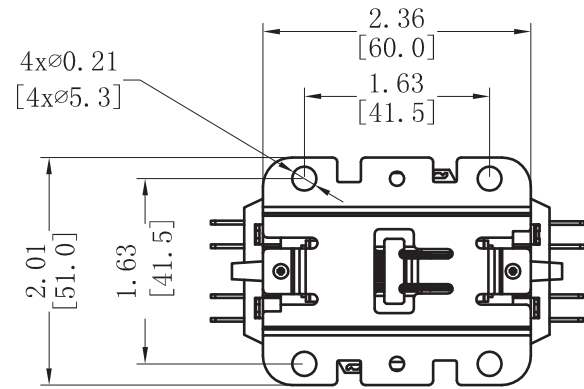
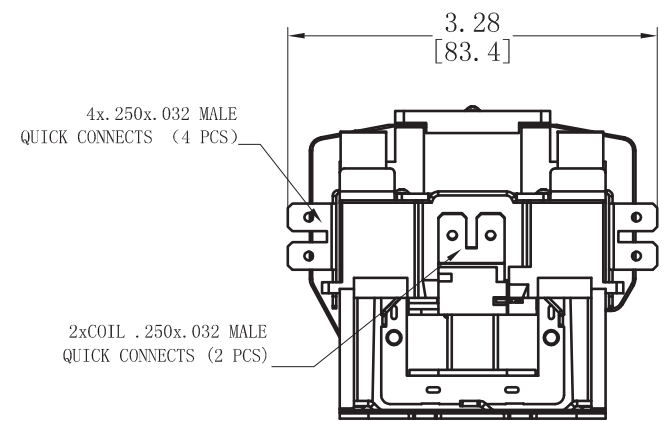


The compact size of Titan Max® contactors makes them ideal for residential and commercial air conditioning applications. When compared to some larger contactors on the market, Titan Max® provides just the right footprint for AC applications.

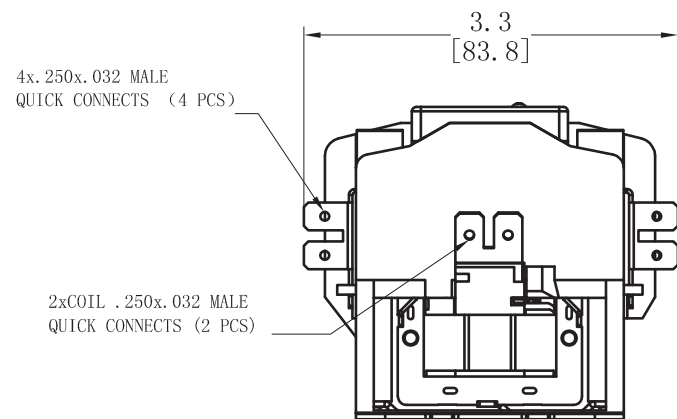
Rated Operating Voltage	12-600VAC max
Make Capacity (230V, cos ϕ =0.45)	12 x FLA
Break Capacity (230V, cos ϕ =0.45)	10 x FLA
Switching Frequency	360 operations/hour
Electrical Endurance	250,000
Mechanical Endurance	1,000,000
SCCR (UL508)	100kA, 600VAC



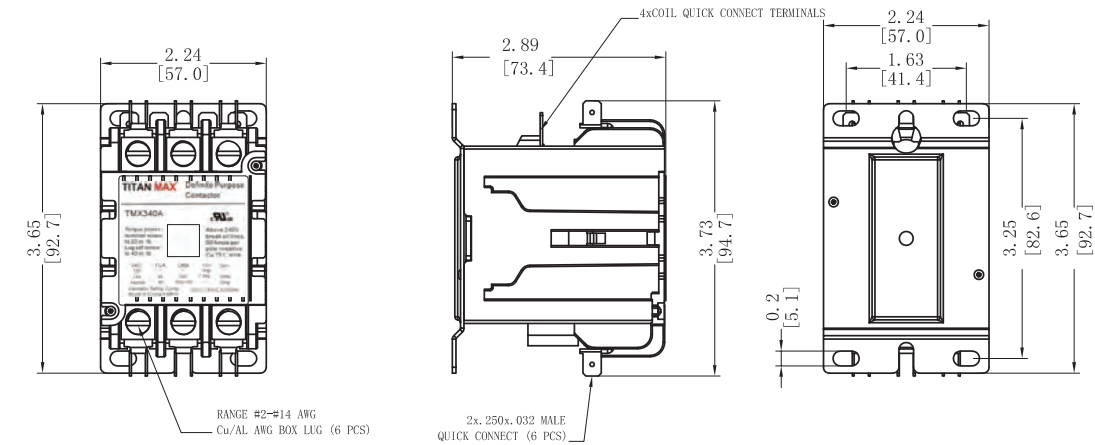
1-Pole Contactor (metal base, 25-40FLA)



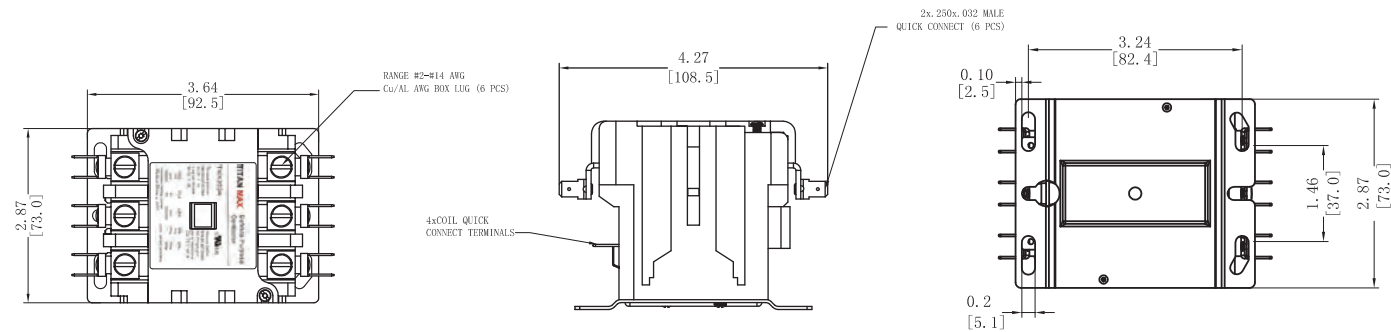
2-Pole Contactor (metal base, 25-40FLA)



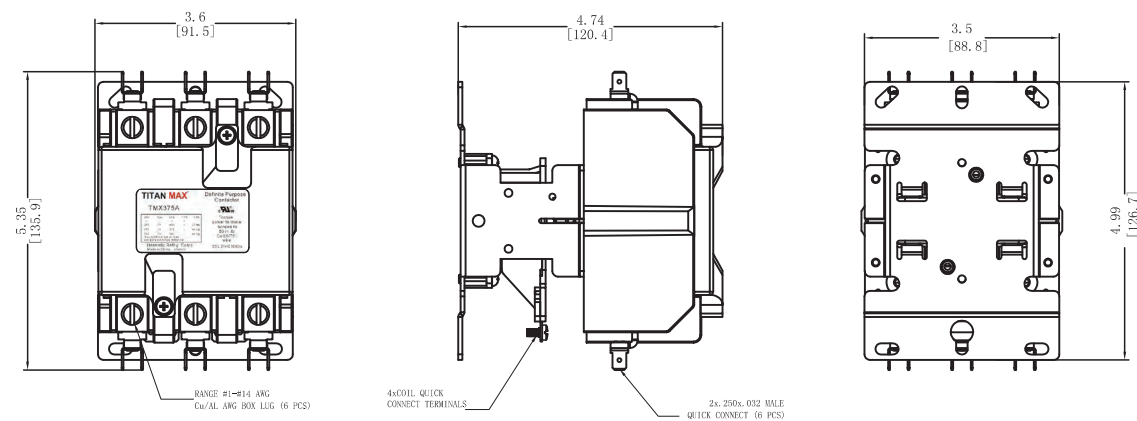
3-Pole Contactor (metal base, 25-40FLA)



3-Pole Contactor (metal base, 50-63FLA)



3-Pole Contactor (metal base, 75-90FLA)



All dimensions are in millimeters (mm)

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COMPREHENSIVE TO THE **MAX**



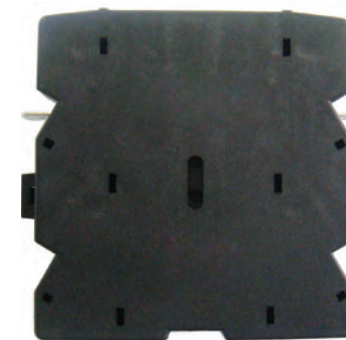
With corresponding Titan Max® auxiliary switches, repairs requiring components can be completed with ease.

From special heat pump applications which may require better current distribution, to the operation of timers, heaters and pressure controls in refrigeration applications - Titan Max® auxiliary switches help reinforce the capabilities of the contactor.

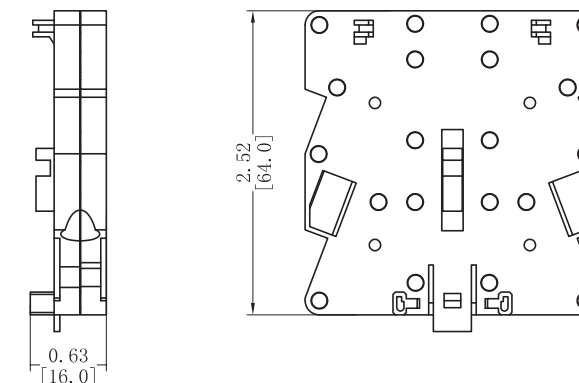
GET MORE OUT OF TITAN **MAX**®

TITAN MAX® Auxiliary Contact Blocks with Quick Connect

TMX1NC	1NC
TMX1NO	1NO
TMX2NC	2NC
TMX2NO	2NO
TMX1NC/1NO	1NC + 1NO



AUXILIARY CONTACT

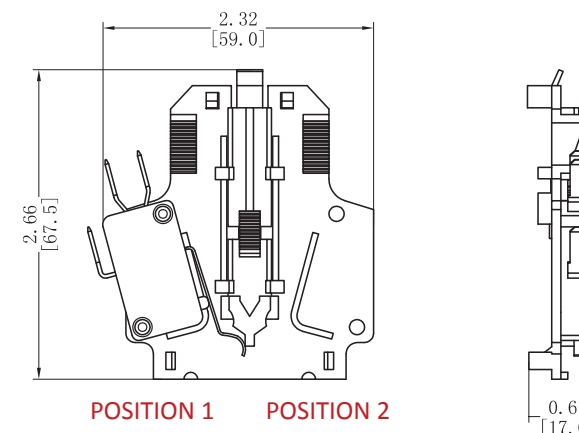


TITAN MAX® Microswitch Blocks

TMXSPDT1	SPDT at Position 1
TMXSPDT2	SPDT at Position 2
TMXSPDT	2PCS SPDT



MICROSWITCH



AUXILIARY CONTACT BLOCK DATA

Conventional Thermal Current (A)		10
Rated Insulation Voltage (V)		690
Rated Operational Current (A)	AC600 (AC-15) 230/380V	3/1.9
	N600(DC-13) 110/230V	2.2/1.1

CROSS REFERENCE

PART NUMBERING SYSTEM

TMX 1 30 A 2

Product Family	
TMX	TITAN MAX®

# of Poles	
1	1 Pole
2	2 Pole
3	3 Pole
4	4 Pole

F/L Inductive Amps	
25	25 amps
30	30 amps
40	40 amps
50	50 amps
60	60 amps
75	75 amps
90	90 amps

Coil Voltage	
A	24V
B	120V
C	208/240V

Furnas Direct Replacement	
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Item	Poles	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Furnas Replacement	
1 Pole							
TMX125A2	1	25	150/125/100	35	24	45DG10AJA	
TMX125B2	1	25	150/125/100	35	120	45DG10AFA	
TMX125C2	1	25	150/125/100	35	208/240	45DG10AGA	
TMX130A2	1	30	180/150/120	40	24	45EG10AJA	45EG10AJAL
TMX130B2	1	30	180/150/120	40	120	45EG10AFA	45EG10AFAL
TMX130C2	1	30	180/150/120	40	208/240	45EG10AGA	45EG10AGAL
TMX140A2	1	40	240/200/160	50	24	45GG10AJA	45GG10AJAL
TMX140B2	1	40	240/200/160	50	120	45GG10AFA	45GG10AFAL
TMX140C2	1	40	240/200/160	50	208/240	45GG10AGA	45GG10AGAL
2 Pole							
TMX225A2	2	25	150/125/100	35	24	42AF15AJ	45DG20AJ
TMX225B2	2	25	150/125/100	35	120	42AF15AF	45DG20AF
TMX225C2	2	25	150/125/100	35	208/240	42AF15AG	45DG20AG
TMX230A2	2	30	180/150/120	40	24	42BF15AJ	45EG20AJ 45EG20AJL
TMX230B2	2	30	180/150/120	40	120	42BF15AF	45EG20AF 45EG20AFL
TMX230C2	2	30	180/150/120	40	208/240	42BF15AG	45EG20AG 45EG20AGL
TMX240A2	2	40	240/200/160	50	24	42CF15AJ	45GG20AJ 45GG20AJL
TMX240B2	2	40	240/200/160	50	120	42CF15AF	45GG20AF 45GG20AFL
TMX240C2	2	40	240/200/160	50	208/240	42CF15AG	45GG20AG 45GG20AGL
3 Pole							
TMX330A2	3	30	180/150/120	40	24	42BF35AJ	
TMX330B2	3	30	180/150/120	40	120	42BF35AF	
TMX330C2	3	30	180/150/120	40	208/240	42BF35AG	
TMX340A2	3	40	240/200/160	50	24	42CF35AJ	
TMX340B2	3	40	240/200/160	50	120	42CF35AF	
TMX340C2	3	40	240/200/160	50	208/240	42CF35AG	
TMX350A2	3	50	300/250/200	65	24	42DF35AJ	
TMX350B2	3	50	300/250/200	65	120	42DF35AF	
TMX350C2	3	50	300/250/200	65	208/240	42DF35AG	
TMX360A2	3	60	360/300/240	75	24	42EF35AJ	
TMX360B2	3	60	360/300/240	75	120	42EF35AF	
TMX360C2	3	60	360/300/240	75	208/240	42EF35AG	
TMX375A2	3	75	450/375/300	90	24	42FE35AJ106	
TMX375B2	3	75	450/375/300	90	120	42FE35AF106	
TMX375C2	3	75	450/375/300	90	208/240	42FE35AG106	
TMX390A2	3	90	540/450/360	120	24	42GE35AJ106	
TMX390B2	3	90	540/450/360	120	120	42GE35AF106	
TMX390C2	3	90	540/450/360	120	208/240	42GE35AG106	

“Our customers expressed the need for a contactor that was versatile enough to replace the soon-to-be obsolete Furnas DP. With Titan Max® we are able to offer a superb product that could serve as a drop-in replacement without any hassle for the contractor while delivering extended electrical and mechanical cycles to outperform the competition - all at an excellent value.”

- Dan Lauterhahn, Vice President of Sales and Marketing | Packard, Inc., Kennesaw, GA

“We sell a lot of contactors. With Titan Max®, we have had zero warranty problems, no failures at all, and the price is right.”

- Ed Fithian, Branch Manager | Allied Refrigeration, Cathedral City, CA

“Since a major manufacturer has discontinued their definite purpose contactors, technicians have been trying to find a replacement that 'makes them comfortable' - one that looks and performs like the one they have grown accustomed to. Titan Max® provides the robust design and performance that they are familiar with. From the same mounting footprint, to the dust free construction, to the sturdy mounting lugs and quick connects - this contactor is familiar.”

- Rick Streacker, NATE Approved Trainer | Packard, Inc., Kennesaw, GA

For over 55-years, Packard has been a master distributor of HVACR solutions for manufacturers all over the world. Our extensive history with the strongest domestic suppliers and our vast experience with global sourcing, allows us to bring the most innovative and highest quality products available to our customers. Our brand offering includes top industry names, as well as our own exclusive private-label lines. Packard's corporate headquarters is located in Kennesaw, Georgia. We maintain strategic sales offices in New Jersey, Virginia, Florida, Oregon, Michigan, Texas and California as well as distribution centers in Texas and Nevada. Our 44 plus independent manufacturers' representatives service wholesalers across the U.S. Packard's unyielding dedication to providing the best service, selection and satisfaction will always be our top priority.

a solution from



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