





WE ARE AMERICAN MADE!

American Rotary has been making premium rotary phase converters for more than a decade. We provide industry leading telephone support for technical, application and sizing issues. We stand behind our products with the best warranty in the industry. We use premium components to ensure that our products perform for you. American Rotary is a UL Certified Control Panel Builder, and our rotary phase converters are available UL Listed to US and Canadian Safety Standards. We have partnered with Baldor Electric one of the world's largest and most respected manufacturers to supply our custom-engineered idler/generators. American Rotary is listed with D&B as well as the Better Business Bureau, and we are committed to high ethical and privacy standards.

American Rotary's Wisconsin based team is dedicated to technical support, customer service and delivering value to its customers. With in-house R&D, engineering, tech support and manufacturing, American Rotary delivers what you need. American Rotary is committed to providing you with a great buying experience. American Rotary challenges you to compare our warranties to any other manufacturer's – American Rotary stands behind its units!

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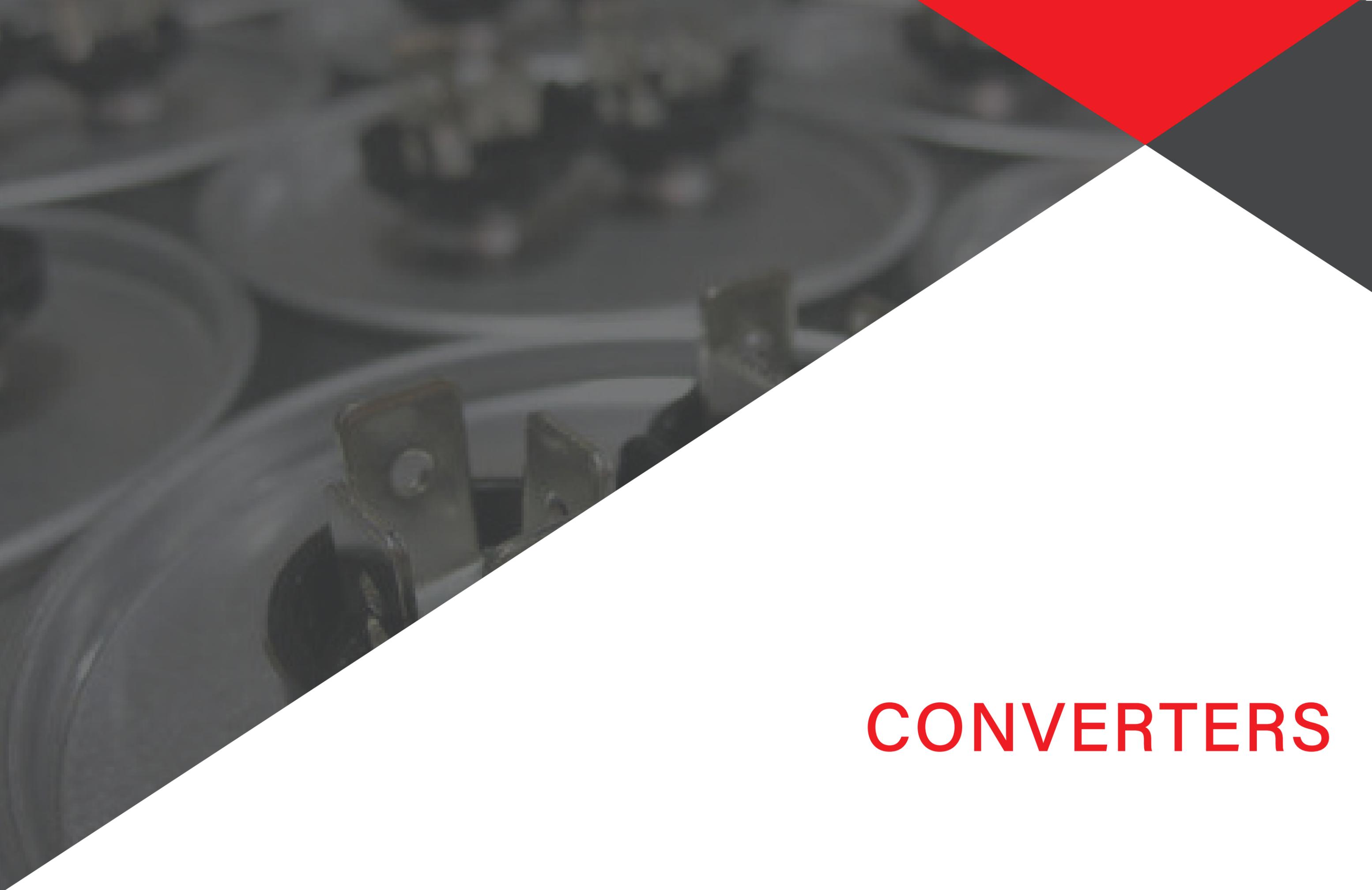
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CONVERTERS

AR - PRO SERIES

This Pro Series Phase Converter manufactured in the USA by American Rotary is built using longstanding, reliable electromechanical controls designed for Phase Converter use, and used continuously by American Rotary for decades.

The AR Series provides utility grade power that can power virtually any 3-phase equipment.

Best for light to medium duty and general purpose loads.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AR05	2.5	2.5 (7)	5 (14)
AR10	5	5 (14)	10 (28)
AR15	7.5	7.5 (21)	15 (42)
AR20	10	10 (28)	20 (56)

AD - DIGITAL SMART SERIES

This SMART Series Phase Converter is manufactured in the USA by American Rotary and provides strong, utility grade 3-phase power from single phase power for any equipment.

AD series phase converters are specifically suited for CNC, VFD, rectified and any other voltage sensitive equipment.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AD05	2.5	2.5 (7)	5 (14)
AD10	5	5 (14)	10 (28)
AD15	7.5	7.5 (21)	15 (42)
AD20	10	10 (28)	20 (56)
AD25	12.5	12.5 (35)	25 (70)
AD30	15	15 (42)	30 (84)
AD40	20	20 (56)	40 (112)
AD50	25	25 (70)	50 (140)
AD60	30	30 (84)	60 (168)
AD75	37.5	37.5 (105)	75 (210)

ADX - SMART SERIES

This SMART Series Phase Converter will convert 1 to 3 Phase power and provide 100% power for 208-250v equipment.

The ADX series phase converters have current control to provide consistent torque while starting high inertia, extremely hard starting loads, yet are precise enough for CNC applications.

Best for high inertia/friction loads such as pumps, fans, compressors, blowers, dust collectors and fly wheels.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
ADX05	2.5	2.5 (7)	5 (14)
ADX10	5	5 (14)	10 (28)
ADX15	7.5	7.5 (21)	15 (42)
ADX20	10	10 (28)	20 (56)
ADX25	12.5	12.5 (35)	25 (70)
ADX30	15	15 (42)	30 (84)
ADX40	20	20 (56)	40 (112)
ADX50	25	25 (70)	50 (140)
ADX60	30	30 (84)	60 (168)
ADX75	37.5	37.5 (105)	75 (210)
ADX100	50	50 (140)	100 (280)
ADX150	75	75 (210)	150 (420)
ADX200	100	100 (280)	200 (560)
ADX300	150	150 (420)	300 (840)

AUL - UL LISTED SERIES

UL licensed units may be required by your state or local inspector. If you require a UL licensed unit our AUL model is the right model for you delivering all the power and features of our ADX and AI units.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AUL05	2.5	2.5 (7)	5 (14)
AUL10	5	5 (14)	10 (28)
AUL15	7.5	7.5 (21)	15 (42)
AUL20	10	10 (28)	20 (56)
AUL25	12.5	12.5 (35)	25 (70)
AUL30	15	15 (42)	30 (84)
AUL40	20	20 (56)	40 (112)
AUL50	25	25 (70)	50 (140)
AUL60	30	30 (84)	60 (168)
AUL75	37.5	37.5 (105)	75 (210)
AUL100	50	50 (140)	100 (280)
AUL150	75	75 (210)	150 (420)
AUL200	100	100 (280)	200 (560)
AUL300	150	150 (420)	200 (840)

AMP - MOBILE SERIES

This AMP unit is part of our Mobile Series phase converter line that is manufactured in the USA by American Rotary and will convert 1 to 3 phase power and provide 100% power for 208-250V equipment.

The AMP unit comes standard with one 3-phase breaker, one 3-phase receptacle, a 6-foot single phase input cord with plug and installed casters for a fully mobile phase converter. These built in features allow this unit to be little to no installation costs!

In addition, this unit comes built with our top of the line Smart Series features to run any and all load types making this unit fully versatile for your needs!

Tier 1: 1 Breaker and 1 Receptacle

Tier 2: 2 Breakers and 2 Receptacles

Tier 3: 3 Breakers and 3 Receptacles

*Image is shown as tier 3 option.



MODELS AVAILABLE	HP RATING	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AMP05	5	2.5	2.5 (7)	5 (14)
AMP10	10	5	5 (14)	10 (28)
AMP20	15	10	10 (28)*	20 (56)*

*Modification may be required to single phase service feed.

AI - INDUSTRIAL SMART SERIES

AI Industrial was designed specifically for the demands of industrial and agricultural applications. Our AI Industrial digital phase converter is perfect for your industrial applications, including grain drying and irrigation machinery.

AI Industrial can save you thousands of dollars a year over utility and diesel generated power sources.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AI20	10	10 (28)	20 (56)
AI30	15	15 (42)	30 (84)
AI40	20	20 (56)	40 (112)
AI50	25	25 (70)	50 (140)
AI60	30	30 (84)	60 (168)
AI75	37.5	37.5 (105)	75 (210)
AI100	50	50 (140)	100 (280)
AI150	75	75 (210)	150 (420)
AI200	100	100 (280)	200 (560)
AI300	150	150 (420)	300 (840)

AD - STK

American Rotary offers a DIY panel to pair with customer provided off the shelf three phase motor. These panels are equipped with extra capacitors to start your three phase motor. Recommended 1700-1850 RPM motor(not included) * Some benefits and features of the American Rotary Smart Series may not work with an off the shelf three phase motor. Please call for more details.



MODELS AVAILABLE	KVA RATING	LARGEST LOAD FOR OPTIMAL PERFORMANCE - HP (AMPS)	MAX TOTAL LOAD RUNNING - HP (AMPS)
AD5-STK	2.5	2.5 (7)	5 (14)
AD10-STK	5	5 (14)	10 (28)
AD15-STK	7.5	7.5 (21)	15 (42)
AD20-STK	10	10 (28)	20 (56)
AD25-STK	12.5	12.5 (35)	25 (56)
AD30-STK	15	15 (42)	30 (84)
AD40-STK	20	20 (56)	40 (112)
AD50-STK	25	25 (70)	50 (140)

CUSTOM OPTIONS

MOUNTING STYLES

Figure 1 shows the standard mounting style for Rotary Converters. (AR, AD, ADX, AUL)



Figure 1: Wall Mount



Figure 2: Idler/Floor Mount

480V

480V option is available for locations that have incoming 480V single phase power to produce 480V three phase power.

NEMA 3R/TYPE 3R

Upgrade available for NEMA 3R / TYPE 3R Enclosure for applications that need to be protected from the elements, debris and/or water. Also, see our AI unit for an additional option.

TEFC

Optional totally enclosed fan cooled (TEFC) idler generator for applications that need to be protected from the elements, debris and/or water. Also, see our AI unit for an additional option.



TRANSFORMERS

THREE PHASE TRANSFORMERS

AUTO TRANSFORMER 240-208

Three phase autotransformers are available for applications where small voltage corrections are necessary in a distribution system. They are frequently used as an economical alternative to general purpose distribution isolation transformers. They adjust the supply voltage to match specific load requirements when load isolation from the supply line is not required. Autotransformers can be used as either a step-up or step-down transformer



PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM Y009CECB3LOU	9	NEMA 3R	49	11.13 x 12.38 x 5.44	YES
TF HAM Y015CECB3LOU	15	NEMA 3R	58	11.13 x 12.38 x 5.44	YES
TF HAM Y030CECF3LOU	30	NEMA 3R	115	16.39 x 15.19 x 6.94	YES
TF HAM Y045CECF3LOU	45	NEMA 3R	130	16.39 x 15.19 x 6.94	YES
TF HAM Y075CECN3LOU	75	NEMA 3R	170	21.50 x 19.40 x 20.20	YES

MULTI-TAP AUTO TRANSFORMER

These 600V Class Three Phase Multi-Tap Auto Transformers are capable of a primary and secondary of any of the following voltages with a Delta or Wye configurations: 600Y, 480Y, 400Y, 240Y, 208Y V.

PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM Y009QTCFL0U	9	NEMA 3R	138	16.39 x 15.19 x 6.94	YES
TF HAM Y015QTCFL0U	15	NEMA 3R	170	16.39 x 15.19 x 6.94	YES
TF HAM Y030QTCNL0U	30	NEMA 3R	210	21.50 x 19.40 x 20.20	YES
TF HAM Y045QTCHL0U	45	NEMA 3R	305	28.75 x 23.90 x 25.00	YES
TF HAM Y075QTCHL0U	75	NEMA 3R	400	28.75 x 23.90 x 25.00	YES
TF HAM Y112QTCHL0U	112	NEMA 3R	585	38.00 x 26.00 x 21.00	YES
TF HAM Y150QTCHL0U	150	NEMA 3R	685	38.00 x 26.00 x 21.00	CALL
TF HAM Y225QTCH30U	225	NEMA 3R	980	41.00 x 32.00 x 29.50	CALL

ISOLATION THREE PHASE

An Isolation or Distribution transformer is an electrical transformer that contains two separate windings. Neither of these windings are shared with one another which allows the primary to be isolated from the secondary. The transformation in voltage between primary and secondary windings occurs as a result of the shared magnetic field in the core.



ISOLATION 208-480 TRANSFORMER

PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM SG3A0015BK	15	NEMA 3R	210	22.00 x 21.50 x 20.00	YES
TF HAM SG3A0030BK	30	NEMA 3R	310	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0045BK	45	NEMA 3R	380	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0075BK	75	NEMA 3R	510	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0112BK	112	NEMA 3R	680	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0150BK	150	NEMA 3R	870	44.50 x 31.50 x 29.50	YES
TF HAM SG3A0225BK	225	NEMA 3R	1350	52.00 x 38.00 x 34.00	YES
TF HAM SG3A0300BK	300	NEMA 3R	1800	52.00 x 38.00 x 34.00	YES

ISOLATION 240-208 TRANSFORMER

PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM SG3A0015DB	15	NEMA 3R	210	22.00 x 21.50 x 20.10	YES
TF HAM SG3A0030DB	30	NEMA 3R	310	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0045DB	45	NEMA 3R	380	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0075DB	75	NEMA 3R	510	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0112DB	112	NEMA 3R	680	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0150DB	150	NEMA 3R	870	44.50 x 31.50 x 29.50	CALL
TF HAM SG3A0225DB	225	NEMA 3R	1350	52.00 x 38.00 x 34.00	CALL
TF HAM SG3A0300DB	300	NEMA 3R	1800	52.00 x 38.00 x 34.00	CALL

ISOLATION 240-480 TRANSFORMER

PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM SG3A0015DK	15	NEMA 3R	210	22.00 x 21.50 x 20.10	YES
TF HAM SG3A0030DK	30	NEMA 3R	310	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0045DK	45	NEMA 3R	380	28.80 x 25.80 x 23.80	YES
TF HAM SG3A0075DK	75	NEMA 3R	510	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0112DK	112	NEMA 3R	680	36.00 x 28.30 x 27.00	YES
TF HAM SG3A0150DK	150	NEMA 3R	870	44.50 x 31.50 x 29.50	CALL
TF HAM SG3A0225DK	225	NEMA 3R	1350	52.00 x 38.00 x 34.00	CALL
TF HAM SG3A0300DK	300	NEMA 3R	1800	52.00 x 38.00 x 34.00	CALL

ISOLATION 240-380

PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF REX BA15C-R/Z3AR	15	NEMA 3R	230	26.40 x 23.90 x 20.75	CALL
TF REX BA30C-R/Z3AR	30	NEMA 3R	289	26.40 x 23.90 x 20.75	CALL

NOTE

Additional Transformer sizes and voltages available, please contact us for further information.

SINGLE PHASE TRANSFORMERS

BUCK/BOOST TRANSFORMERS

A Buck/Boost Transformer is utilized when a small change in voltage is required. These are typically installed when the input power is slightly too high or a little too low. They will raise or lower the voltage to help fine tune the incoming voltage for a machine that has a strict voltage requirement. A Buck/Boost has different taps on them to give you a range of voltage options.

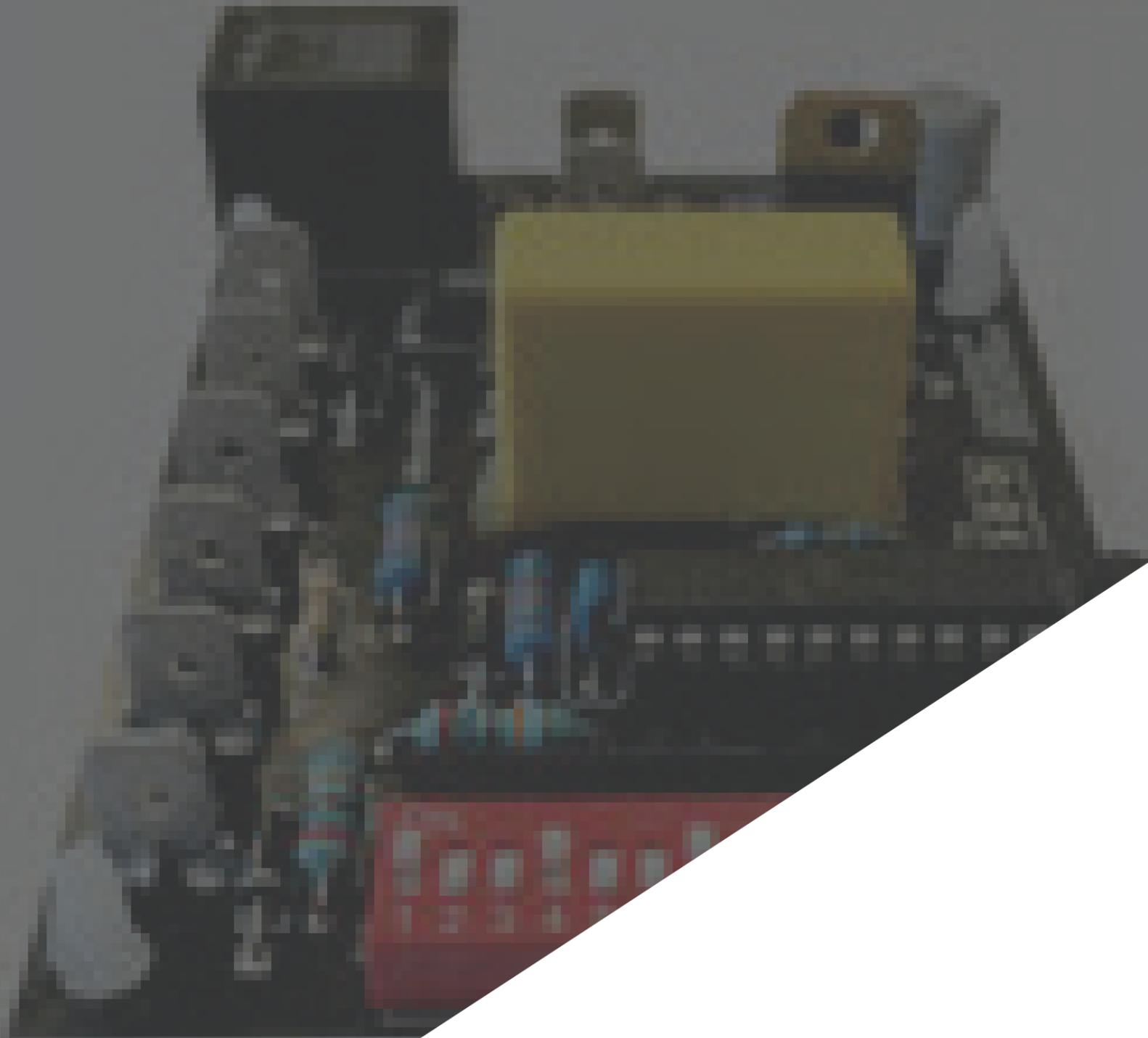


PART #	KVA	ENCLOSURE	WEIGHT (LBS)	DIMENSIONS (H x W x D, INCHES)	STOCK
TF HAM Q003ERCF	3	NEMA 3R	65	17.25 x 10.00 x 7.75	YES
TF HAM Q005ERCF	5	NEMA 3R	105	17.25 x 10.00 x 7.75	YES

*These are the most common buck/boost used. More sizes are available.

NOTE

Additional Transformer sizes and voltages available, please contact us for further information.



**PARTS +
ACCESSORIES**

3-PHASE LOAD CENTERS

Main Lug 3 Phase 240V Load Center. Fixed Main. Precision distribution and circuit isolation for multiple load applications. This accessory is recommended if you plan on wiring more than one piece of equipment in at a time.

Please note each load center breaker takes 3 slots.



SIZE	PART #
12 SLOT	LC SQD QO312L125G
18 SLOT	LC SQD QO318L200G
30 SLOT	LC SQD QO330L200G
42 SLOT	LC SQD QO342L225G

3-PHASE LOAD CENTER BREAKERS

Plug-on circuit breaker, common trip, thermal magnetic, 3 pole 240V. For use with Load Center.



SIZE	PART #
10 AMP	BK SQD QO310
15 AMP	BK SQD QO315
20 AMP	BK SQD QO320
25 AMP	BK SQD QO325
30 AMP	BK SQD QO330
35 AMP	BK SQD QO335
40 AMP	BK SQD QO340

SIZE	PART #
50 AMP	BK SQD QO350
60 AMP	BK SQD QO360
70 AMP	BK SQD QO370
80 AMP	BK SQD QO380
90 AMP	BK SQD QO390
100 AMP	BK SQD QO3100

1-PHASE SAFETY DISCONNECT SWITCH

The Square D light duty enclosed switch is ideal for home applications in disconnecting power to workshops, hobby rooms, furnaces, and garages. The light duty safety switch has visible blades and a ground lug as standard features.

SIZE	PART #
30 AMP	DS SQD D221N
60 AMP	DS SQD D222N
100 AMP	DS SQD D223N
200 AMP	DS SQD D224N



3-PHASE SAFETY DISCONNECT SWITCH

3 Phase Safety Disconnect Switch, 240V. This is recommended to ensure that the electrical circuit is completely de-energized for service.



SIZE	PART #
30 AMP	DS SQD 341
60 AMP	DS SQD 343
100 AMP	DS SQD 345
200 AMP	DS SQD 347

SIZE	PART #
30 AMP 3R	DS SQD DU321RB
60 AMP 3R	DS SQD DU322RB
100 AMP 3R	DS SQD DU323RB
200 AMP 3R	DS SQD DU324RB

3-PHASE PANEL MOUNT BREAKERS

Panel Mount Circuit Breaker, Common Trip, Thermal Magnetic, 3 Pole, 240V. Mounts directly into Rotary Phase Converter Control Panel (AR, AD, ADX, AI, AMP) for protection on the 3-Phase side.



SIZE	PART #
10 AMP	BK SQD QOU310
15 AMP	BK SQD QOU315
20 AMP	BK SQD QOU320
25 AMP	BK SQD QOU325
30 AMP	BK SQD QOU330
35 AMP	BK SQD QOU335
40 AMP	BK SQD QOU340

SIZE	PART #
45 AMP	BK SQD QOU345
50 AMP	BK SQD QOU350
60 AMP	BK SQD QOU360
70 AMP	BK SQD QOU370
80 AMP	BK SQD QOU380

RUBBER ISOLATION MOUNTING FEET

These rubber feet are made of the best isotropic vibration damping material available. They are chemical and heat resistant. The set of four comes with the proper bolts and washers to fit with our custom generators.

FITTED CONVERTER SIZE	TYPE	PART #
AR (3-20HP)	STANDARD	HW PCK GRN
AD/ADX (3-30HP)	STANDARD	HW PCK YLW
AD/ADX (40-75HP)	STANDARD	HW PCK RED
ANY MODEL (3-15HP)	BOLT DOWN	HW PCK BD SML
ANY MODEL (20HP+)	BOLT DOWN	HW PCK BD LRG



3-PHASE PANEL MOUNT RECEPTACLE

This accessory is used if you want the capabilities of easily plugging your equipment in versus hardwiring into the converter. Comes pre-installed into laser knockout located on the bottom of the converter panel or can be self-installed.

SIZE	PART #
20 AMP	EC BLK 516
30 AMP	EC BLK 518



3-PHASE CONNECTOR BODY PLUG



SIZE	PART #
20 AMP	EC BLK 513
30 AMP	EC BLK 517

3-PHASE CONNECTOR BODY RECEPTACLE



SIZE	PART #
20 AMP	EC BLK 512
30 AMP	EC BLK 519



PHASE MONITOR

American Rotary's custom three phase monitoring system which keeps your equipment from starting if all three phases are not detected giving you the ultimate three phase power protection for your equipment. This accessory is recommended to any shop that has the fear of equipment starting without the converter being on. Can be seen on pumps, compressors, saws, plus many more.



PHASE MONITOR WITH TIMER

Automation control allows you to set your phase converter on a timer. Ideal for applications that need to power on a set schedule or on demand. Included with the timer kit is American Rotary's custom three phase monitoring system which keeps your equipment from starting if all three phases are not detected giving you the ultimate three phase power protection for your equipment. This accessory is usually seen on equipment such as elevators, washers, etc.



WIRED REMOTE START

Our wired remote system allows you to control your phase converter with the flick of a switch! This will also allow you to have multiple on/off switches in different areas of your shop.



WIRELESS REMOTE START

Start your American Rotary Phase Converter remotely with our easy to use Wireless Remote Star. This wireless remote start is not only wireless but also batteryless. That's right! Our wireless remote utilizes ZigBee Technology to allow you a hassle free and environmentally safe way to start or stop your phase converter when you can't be near it.



SURGE SUPPRESSOR

This Surge Suppression Device is NEMA 4X rated and is suitable for both indoor and outdoor applications. This SPD is rated at 36,000 Amp Maximum Surge Current Rating and is intended for use with pumps, motor applications and service-entrance locations. The unit is designed for hardwired usage and features an LED to indicate its operational status. This is installed on your single phase panel to protect valuable equipment downstream of it.



MOTOR STARTERS

Start your motor with ease using the American Rotary Easy-Start. Our starters come standard with a Start/Stop button and a Reset button. Available in 208v-240v and 480v.



ENCLOSED CONTACTORS

Our enclosed contactors can be used as a stand alone contactor in between the phase converter and your load or can be used with our Auto-restart (restarts converter automatically if there is an interruption of power), timer (sets a delay on/off of the converter) and phase monitor systems (Monitors for loss of phase in the converter).

