

Capabilities













TO POWER AND FILTERING

Micron Industries Corporation is a manufacturer of control magnetics and custom windings headquartered in Oak Brook IL with manufacturing facilities in Sterling IL. Best known for the ImperviTRAN™ brand 600 volt class control transformer, Micron has developed into an industry leader in DIN Rail mount industrial power supplies and converters as well as NEMA 3R transformers. Banking on our history of providing non-catalog products within the same 10 day lead time as catalog standards, Micron has recently added specialty reactors and custom wound coils to its growing product portfolio.



Oak Brook IL Headquarters

Over its nearly 50 year history as a transformer manufacturer, Micron has become the supplier of choice to the majority of the motor control and drive industry. Besides maintaining rapid response inventories on over 250 catalog items, Micron's active SKU file exceeds 4,500 additional part numbers which are available in a maximum of 15 working days.



Sterling IL Manufacturing

Manufacturing Capabilities

Control Transformers: The Impervi**TRAN**[™] product offering is available from 25VA through 5,000VA in any 600 volt class voltage combination. All designs meet UL, cUL, CSA or EN61558-2-2 and can be built in 105°C, 130°C, 155°C or 180°C designs

Power Supplies and Converters: The *DIN*ergy[™] product offering encompasses power supplies from 18 watt single phase through 960 watt three-phase in the most popular industrial output voltages. The majority also operate as converters with 120 VDC input capability. Low profile, PCB and panel mount supplies and converters on special order.

NEMA 3R Products: Micron can furnish virtually all combinations of 600 volt class single and three-phase catalog designs both as encapsulated and ventilated. Included in this selection are transformers capable of providing voltage adjustments as buck-boost designs.

Specialty Designs and Coils: Micron can provide an average 20 day turn-around on your magnetics needs

- Specialty coils both stick and bobbin configurations
- Single-phase 600 volt class transformers and chokes built on E-I laminations
- Custom three-phase open construction 600 volt class transformers through 150kVA
- Custom three-phase load bank reactors from 0.25kvar through 150kvar
- Custom three-phase line and load reactors from fractional through 250HP
- Custom capacitor detuning reactors through 75kvar
- Medium voltage power, control and metering accuracy transformers through 14,400V

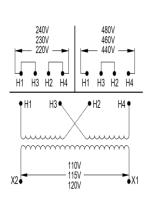
You can rely on Micron's engineering expertise to design a product that suits **your** exact needs.

Contact Micron's customer service department at 1.800.664.4660 and press 1!

Control Transformers:

25VA - 5Kva







Why Choose Micron?

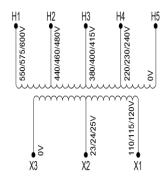
Micron chose to encapsulate its control transformer designs over 40 years ago and still does so today. Why? Encapsulation provides the following:

- More even heat dissipation from the core.
- Windings and solder connections protected from corrosion which means longer transformer life.
 The average MTBF of our 600 volt class ImperviTRAN™ is 192,720 hours.
- Encapsulation and robust terminal block construction greatly reduces the chance of freight and installation damage.

From the beginning, Micron designed a user-centric product that stood the test of time.

- Compact terminal spacing.
- Integral secondary fusing capability.
- Primary fusing capability for nearly 40 years! Now simplified by the factory installed ImperviMOUNT ™ accessory mounting plate.
- ImperviMOUNT™ comes standard on all Series 2 designs and is optional on all Micron transformer products, thus allowing the installer an additional accessory mounting location.
- Philslot/pressure plate terminal screws simplify the wiring process.







This user-centric philosophy is visible in all Micron products, from control transformers and general purpose to DC power supplies and reactors and coils.

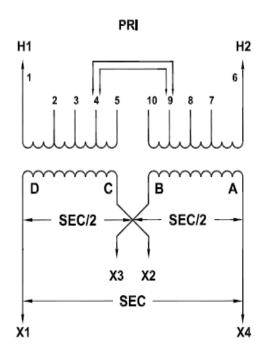
General Purpose, Power and Buck-Boost Transformers: 50VA – 750Kva

TYPICAL EXAMPLES

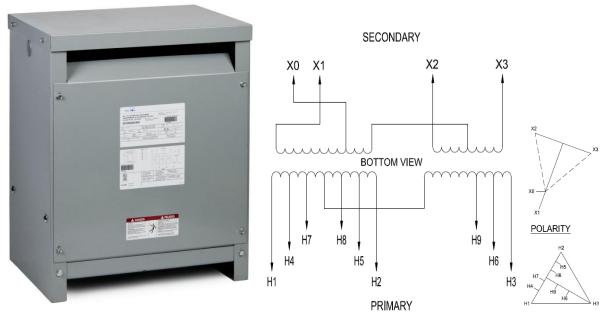


WDG	VOLTS	CONNECT	LINE			
PRI	480	H2-H3	H1-H4			
PKI	240	H1H3-H2H4				
	240	X2-X3	X1-X4			
SEC	120	X1X3-X2X4				
	120/240	X2-X3*	X1-X3-X4			

Buck-Boost Transformers are used to provide an economical method of correcting a lower or higher voltage to a voltage rating more suitable for efficient operation of electrical equipment. Buck-Boost applications are primarily used for motor operation and should not be used for motor control circuits, correction of fluctuating voltages or obtaining a neutral on a Delta system.







Three Phase D.O.E 2016 Compliant

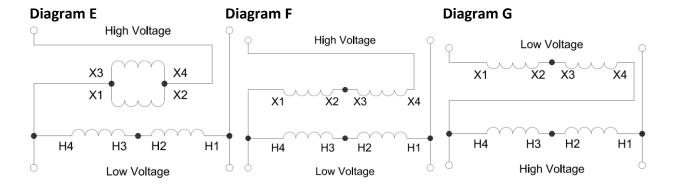
KVA	CATALOG NUMBER	TAPS FCAN	TAPS FCBN	DESIGN TYPE	TEMP RISE °C	н	w	D	WEIGHT LBS	FRAME NUMBER	WIRING DIAGRAM	WEATHER SHIELD	
	GROUP "M": PRI:				RISE C				LDS	NUIVIBER	DIAGRAIVI	3חובנט 	
75	G075K5QQ2A04	6	6	3V	150	43.00	30.50	24.00	447	942	QQ	WS59MI	
112.5	G112K5QQ2A04	6	6	3V	150	51.00	34.50	31.50	650*	943	QQ	WS60MI	
150	G150K5QQ2A04	6	6	3V	150	51.00	34.50	31.50	770*	943	QQ	WS60MI	
225	G225K5QQ2A04	6	6	3V	150	60.00	38.00	33.50	1300*	944	QQ	WS61MI	
300	G300K5QQ2A04	6	6	3V	150	66.18	42.18	33.50	2400*	945	QQ	WS62MI	

(8) 2 @+2.5%, 2 @-2.5%; (6) 2 @+2.5%, 4@-2.5%;

Buck-Boost

Need Single Phase 230Volts, 60Hz (Selection Table Number 3)

				Have Available Voltage Of																		
Units		Use	19	99	2	203 207			209		216 21		219 242		246		253		260			
	Unit	Catalog		Max Load																		
Req'd	Kva	Number	Kva-Amps Kva-Amps			Kva-Amps K		Kva-	Kva-Amps													
1	.05	J050A1EA1A01	-		ı	-	0.43	1.88	0.48	2.08	-	-	0.96	4.16	1.00	4.38	•	-	0.53	2.29	-	-
1	.05	J050A1EB1A01	0.31	1.36	0.36	1.56	-	-	-	-	0.72	3.12	-		-	-	0.77	3.34	-	-	0.41	1.77
1	.10	J100A1EA1A01	-	-	-	-	0.86	3.75	0.96	4.17	-	-	1.92	8.33	2.01	8.75	-	-	1.05	4.58	-	-
1	.10	J100A1EB1A01	0.62	2.71	0.72	3.12	-	-	-	-	1.44	6.25	-		-	-	1.53	6.67	-	-	0.82	3.54
1	.15	J150A1EA1A01	-	-	-	-	1.29	5.62	1.44	6.25	-	-	2.87	12.5	3.02	13.1	-	-	1.58	6.87	-	-
1	.15	J150A1EB1A01	0.93	4.06	1.08	4.69	-	-	-	-	2.16	9.37	-	-	-	-	2.30	10	-	-	1.22	5.31
Con	nectio	n Diagram		G		F		G		F		E		E		I			E		F	F

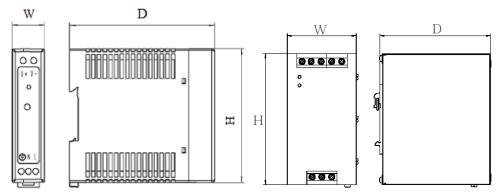


Power Supplies and Converters:

18 Watts – 960 Watt Three-Phase Standard DIN-Mount and Building Automation Style TYPICAL EXAMPLES



Industrial DIN-Mount power supplies are used in an ever increasing number of automation applications. 480 volt and three-phase capability offers even more user flexibility.



Need it today? Contact Micron's customer service department at 1.800.664.4660 and press 1!

Some of the industries smallest packages Model Comparison

Model	W (Width)	D (Depth)	H (Height)	Max Amps @ 24Vdc	Agency Listings
MDP18	0.89" (22.5)	4.49" (114)	3.60" (90)	0.94	UL 508, 1310, ISA 12.1201, CE
MDP30	0.89" (22.5)	3.94" (100)	3.60" (90)	1.36	UL 508, 1310 (-1C), ISA 12.12.01, CE
MDP50	1.26" (32)	4.02" (102)	3.60" (90)	2.27	UL 508, CE
MDP60	1.59" (40.5)	4.49" (114)	3.60" (90)	3.00	UL 508, 1310 (24Vdc), ISA 12.12.01, CE
MDP100	2.13" (54)	4.49" (114)	3.60" (90)	3.80 (CL2)	UL 508, 1310 (24Vdc), ISA 12.12.01, CE
MD120-1C	2.52" (64)	4.59" (117)	4.90" (124.5)	7.25	UL 508, ISA 12.12.01, CE
MD240-1CS	2.52" (64)	4.59" (117)	4.90" (124.5)	14.50	UL 508, ISA 12.12.01, CE
MD240-3C	3.50" (89)	4.41" (112)	4.88" (124)	14.00	UL 508, ISA 12.12.01, CE
MD480-1C	6.91" (175.5)	4.59" (117)	4.90" (124.5)	28.00	UL 508, ISA 12.12.01, CE
MD480-3C	5.91" (150)	4.41" (112)	4.88" (124)	27.00	UL 508, ISA 12.12.01, CE

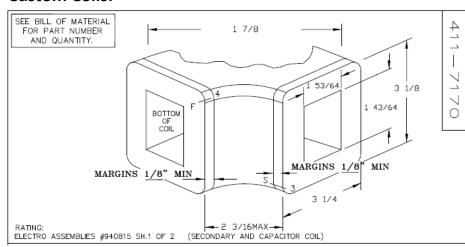
Specialty Reactors:

Whether it's a load bank reactor from 0.25kvar – 150kvar, a line or load reactor built to your specifications or a detuning reactor for a capacitor bank, let Micron be your source. Contact Micron's customer service department at 1.800.664.4660 and press 1!





Custom Coils:



AND since all of our products contain coils, we are the perfect choice for your custom coil winding requirements! Contact Micron's customer service department at 1.800.664.4660 and press 1!

ImperviTRAN™and GlobalTRAN™ are products of Micron Industries Corporation,

Oak Brook IL and Manufactured in Sterling IL – USA

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