



# TOROIDAL TRANSFORMER

The background features a complex network of glowing yellow and green lines that form various geometric shapes, including rectangles and irregular polygons. These lines are set against a dark green gradient background. Scattered throughout the scene are numerous out-of-focus circular light spots, or bokeh, in shades of green and yellow, creating a sense of depth and movement.

WIDE **RANGE**  
OF **UL** APPROVED  
**TOROIDAL**  
TRANSFORMERS





# TRASFORMATORI TOROIDALI

I nostri trasformatori toroidali soddisfano sempre le vostre esigenze perché vengono disegnati e realizzati su richiesta. Per questo motivo abbiamo omologato UL una vasta gamma di trasformatori e vi offriamo una possibilità veramente ampia di scelta tra i 20 VA e i 5000 VA, con o senza protezione termica e con la possibilità di avere fino a sei secondari. I nostri trasformatori toroidali trovano applicazione in tutti i settori industriali, nell'automazione civile, alimentazione elettromedicale, settore audio e settore illuminotecnico.

Una volta individuato il vs. trasformatore toroidale, nella vasta scelta di possibilità di cui sopra, realizzeremo la specifica tenendo conto dei vs. problemi dimensionali, delle vs. specifiche richieste relative alla lunghezza dei cavi e con i connettori di cui avete bisogno. Disponiamo inoltre di toroidali omologati UL classe 2.

## TOROIDAL TRANSFORMERS

Your requirements are always satisfied by our toroidal transformers as they are designed on your request. For this reason we have available a wide range of UL approved toroidal transformers and you can choose among a range powered from 20VA to 5000VA, with or without thermal fuse or switch. The UL approved transformers can have till six secondary voltages. Our toroidal transformers are employed in industrial control equipments, in civil automation, in medical equipments, audio equipments and lighting.

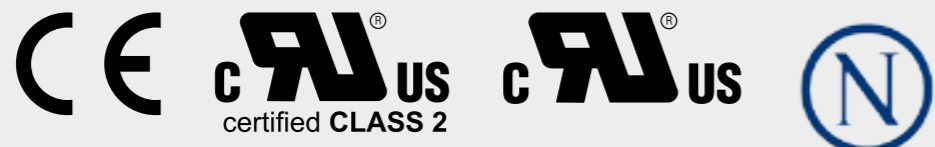
Once identified your toroidal transformer you can choose dimensions, wire colors and length as well as type of connectors you need. You can find also UL CLASS 2 approved toroidal transformers.

## RINGKERNTRASFORMATOREN

Unsere Ringkerntransformatoren sind nach Kundenwunsch entwickelt und gefertigt, um immer Ihre Bedürfnisse zu erfüllen. Deshalb haben wir eine breite Palette von Transformatoren UL zertifiziert: Sie können geprüften Transformatoren von 20VA bis 5000VA, mit oder ohne Thermosicherung/PTC wählen. Die geprüften Transformatoren können bis 6 verschiedenen Sekundärspannungen haben. Die Ringkerntransformatoren werden in vielen Industriegebieten in ZivilAutomatisierung, medizinische Geräte, Audiound Beleuchtungsindustrie eingesetzt. Nachdem Sie den richtigen Typ gewählt haben können Sie die Farben und Länge von Drahten sowie die Steckverbinder und Konnektoren wählen. Wir haben auch UL Klasse 2 geprüften Ringkerntrnsformatoren in unserem Herstellungsprogramm.



**ISO 9001:2008**  
**ISO 14001:2004**



# UL AND CSA APPROVED TOROIDAL TRANSFORMER

## FILE **E253945**



- Toroidal transformer from 20VA to 5000VA
- Primary voltage from 0Volt to 397Volt
- Secondary voltage from 0Volt to 277Volt (max. six secondary voltages)
- The transformer can be equipped both with fuse or thermal switch
  
- Toroidali da 20VA a 5000VA
- Primario da 0Volt a 397Volt
- Secondario da 0Volt a 277Volt (massimo 6 secondari)
- I trasformatori si possono avere senza termica e con termica ripristinabile e/o irreversibile
  
- Ringkerntransformatoren von 20VA bis 5000 VA · Primärspannung von 0 bis 397 Volt
- Sekundärspannung from 0 bis 277 Volt (mit max. sechs Sekundärspannungen)
- Die Transformatoren koennen mit oder ohne Thermosicherung / Thermoschalter sein



# UL AND CSA APPROVED TOROIDAL TRANSFORMER

FILE **E253945**



- Toroidal transformer from 40VA to 2000VA
- Primary voltage from 0Volt to 600Volt
- Secondary voltage from 0Volt to 340Volt

- Toroidali da 40VA a 2000VA
- Primario da 0Volt a 600Volt
- Secondario da 0Volt a 340Volt

- Ringkerntransformatoren von 40VA bis 2000 VA
- Primärspannung von 0 bis 600 Volt
- Sekundärspannung von 0 bis 340Volt

# UL CLASS 2 APPROVED TOROIDAL TRANSFORMER

FILE **E300801**



- Toroidal transformer from 20VA to 100VA
- Primary voltage from 0 to 250Vac
- Secondary voltage from 0 to 30Vac (max. three secondary voltages)

- Toroidali da 20VA a 100VA
- Primario da Primario da 0 a 250Vac
- Secondario da 0 a 30Vac (massimo 3 secondari)

- Ringkerntransformatoren von 20VA bis 100VA · Primärspannung von 0 bis 250Vac
- Sekundärspannung von 0 bis 30Vac (mit max. drei Sekundärspannungen)
- Diese Ringkerntransformatoren sind mit PTC geschützt

## INSULATION SYSTEM UL AND CSA APPROVED

SISTEMI D'ISOLAMENTO OMOLOGATI

ISOLATIONSSYSTEME MIT UL ZERTIFIZIERUNG



### FILE E331923E

Class 130 (B) transformer insulation system

System Designation	Insulation Class	Maximum Hot Spot Temperature
<b>LAUMA 130-ES-L</b>	130 (B)	130

### FILE E331923C

Class 180 (H) transformer insulation system

System Designation	Insulation Class	Maximum Hot Spot Temperature
<b>LAUMA 180-T-L</b>	180 (H)	180

### FILE E331923D

Class 200 (N) transformer insulation system

System Designation	Insulation Class	Maximum Hot Spot Temperature
<b>LAUMA 200-TM-L</b>	200 (N)	200

### FILE E331923D

Class 220 (R) transformer insulation system

System Designation	Insulation Class	Maximum Hot Spot Temperature
<b>LAUMA 220-H-L</b>	220 (R)	220

## NEMKO APPROVED

TOROIDAL TRANSFORMER

NEMKO ZERTIFIZIERTEN RINGKERNTRASFORMATOREN



- Toroidal transformer from 20VA to 300VA
- Primary voltage from 0Volt to 250Volt
- Secondary voltage from 0Volt to 115Volt (max. six secondary voltages)
- The transformer can be equipped both with fuse or thermal switch

- Toroidali da 20VA a 300VA
- Primario da 0Volt a 250Volt
- Secondario da 0Volt a 115Volt (massimo 6 secondari)
- I trasformatori si possono avere senza termica e con termica ripristinabile e/o irreversibile

- Ringkerntransformatoren von 20VA bis 300VA
- Primärspannung von 0 bis 250Volt
- Sekundärspannung von 0 bis 115Volt (mit max. sechs Sekundärspannungen)
- Die Ringkerntransformatoren koennen mit oder ohne Thermosicherung oder Thermoschalter

## CIVIL AUDIO POWER TRANSFORMER

File E331923 - File E253945 - File E300801



Rated Power (VA)	Voltage Regulation (%)	Efficiency (%)	Dimension Ø x H	Weight Kg	APPROVAL OMOLOGHE
50	12%	84%	80 x 35	0,87	UL CSA CE NEMKO
60	10%	86%	82 x 40	1,22	UL CSA CE NEMKO
80	8,50%	88%	93 x 42	1,48	UL CSA CE NEMKO
100	7,80%	89%	100 x 47	1,68	UL CSA CE NEMKO
100	7,30%	90%	105 x 44	1,96	UL CSA CE NEMKO
150	7,00%	91%	108 x 52	2,24	UL CSA CE NEMKO
180	6,50%	92%	113 x 55	2,85	UL CSA CE NEMKO
200	6,20%	92%	117 x 65	2,97	UL CSA CE NEMKO
250	6,00%	92%	118 x 65	3,33	UL CSA CE NEMKO
300	5,80%	93%	118 x 70	3,55	UL CSA CE NEMKO
350	5,50%	93%	110 x 92	4,25	UL CSA CE
400	5,20%	93%	125 x 76	4,67	UL CSA CE
450	4,80%	94%	131 x 80	4,92	UL CSA CE
500	4,20%	94%	140 x 85	5,50	UL CSA CE

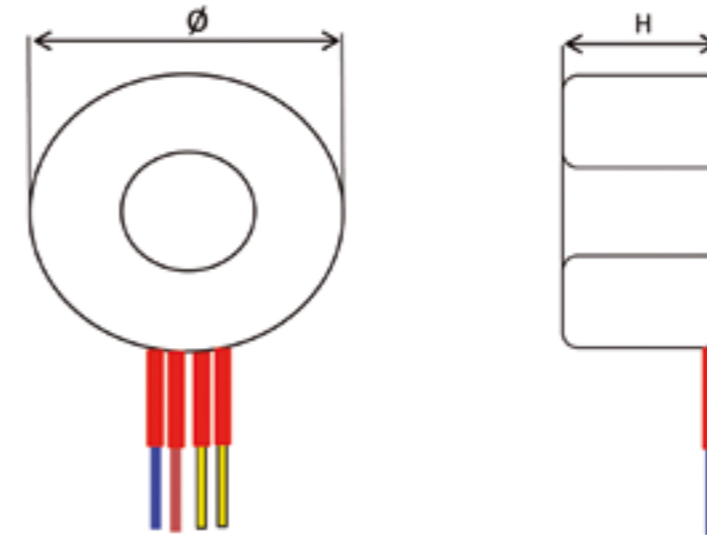
I dati riportati in tabella sono indicativi, siamo specializzati nella realizzazione di trasformatori toroidali su speci che esigenze del cliente.

The above parameters are for reference only, we are specialized in custom made toroidal transformers.

In der Tabelle sind nur Referenzangaben, wir stellen Ringkerntransformatoren nach Kundenwunsch an!

## PROFESSIONAL AUDIO POWER TRANSFORMER

File E331923 - File E253945 - File E300801



Rated Power (VA)	Voltage Regulation (%)	Efficiency (%)	Dimension Ø x H	Weight Kg	APPROVAL OMOLOGHE
500	4,20%	94%	140 x 85	5,50	UL CSA CE
500	6,50%	92%	132 x 61	3,54	UL CSA CE
600	6,30%	92%	128 x 68	4,15	UL CSA CE
700	6,10%	92%	130 x 70	4,70	UL CSA CE
800	5,80%	93%	140 x 75	5,65	UL CSA CE
1000	5,60%	93%	150 x 89	7,40	UL CSA CE
1200	5,50%	93%	156 x 95	5,60	UL CSA CE
1500	5,20%	94%	170 x 75	8,30	UL CSA CE
1800	5,00%	94%	186 x 79	8,80	UL CSA CE
2000	4,80%	94%	196 x 80	10,10	UL CSA CE
2500	4,60%	94%	196 x 83	11,20	UL CSA CE
3000	4,50%	94%	182 x 120	11,40	UL CSA CE
4000	4,20%	94%	185 x 125	13,75	UL CSA CE
5000	3,80%	95%	200 x 130	15,10	UL CSA CE

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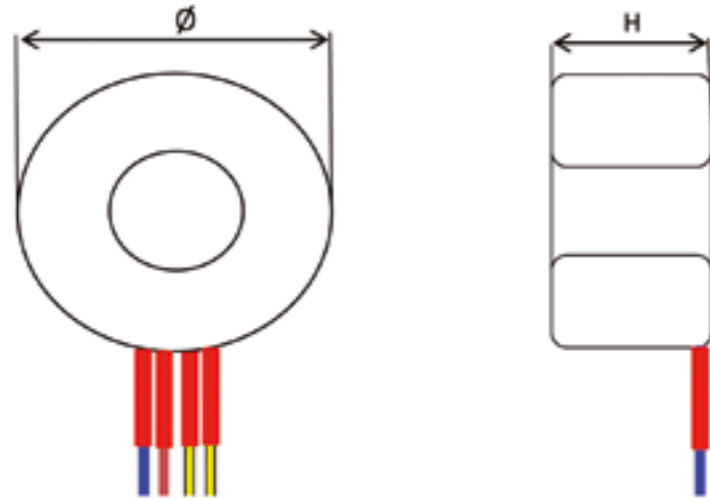
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## INDUSTRIAL CONTROL POWER TRANSFORMER

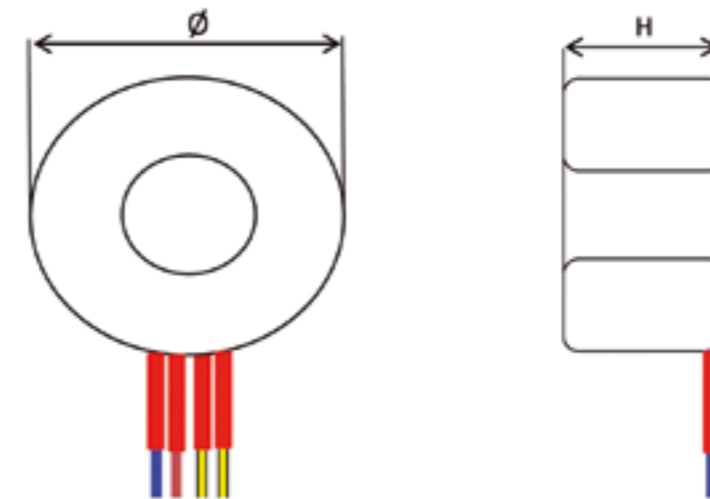
File E331923 - File E253945 - File E300801



Rated Power (VA)	Voltage Regulation (%)	Efficiency (%)	Dimension Ø x H	Weight Kg	APPROVAL OMOLOGHE
50	12%	84%	80 x 35	0,87	UL CSA CE NEMKO
60	10%	86%	82 x 40	1,22	UL CSA CE NEMKO
80	8,50%	88%	93 x 42	1,48	UL CSA CE NEMKO
100	7,80%	89%	100 x 47	1,68	UL CSA CE NEMKO
100	7,30%	90%	105 x 44	1,96	UL CSA CE NEMKO
150	7,00%	91%	108 x 52	2,24	UL CSA CE NEMKO
180	6,50%	92%	113 x 55	2,85	UL CSA CE NEMKO
200	6,20%	92%	117 x 65	2,97	UL CSA CE NEMKO
250	6,00%	92%	118 x 65	3,33	UL CSA CE NEMKO
300	5,80%	93%	118 x 70	3,55	UL CSA CE NEMKO
350	5,50%	93%	110 x 92	4,25	UL CSA CE
400	5,20%	93%	125 x 76	4,67	UL CSA CE
450	4,80%	94%	131 x 80	4,92	UL CSA CE
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500	6,50%	92%	132 x 61	3,54	UL CSA CE
600	6,30%	92%	128 x 68	4,15	UL CSA CE
700	6,10%	92%	130 x 70	4,70	UL CSA CE
800	5,80%	93%	140 x 75	5,65	UL CSA CE
1000	5,60%	93%	150 x 89	7,40	UL CSA CE
1200	5,50%	93%	156 x 95	5,60	UL CSA CE
1500	5,20%	94%	170 x 75	8,30	UL CSA CE
1800	5,00%	94%	186 x 79	8,80	UL CSA CE
2000	4,80%	94%	196 x 80	10,10	UL CSA CE
2500	4,60%	94%	196 x 83	11,20	UL CSA CE
3000	4,50%	94%	182 x 120	11,40	UL CSA CE
4000	4,20%	94%	185 x 125	13,75	UL CSA CE
5000	3,80%	95%	200 x 130	15,10	UL CSA CE

## ELECTROMEDICAL CONTROL POWER TRANSFORMER

File E331923 - File E253945 - File E300801



Rated Power (VA)	Voltage Regulation (%)	Efficiency (%)	Dimension Ø x H	Weight Kg	APPROVAL OMOLOGHE
50	12%	84%	80 x 35	0,87	UL CSA CE NEMKO
60	10%	86%	82 x 40	1,22	UL CSA CE NEMKO
80	8,50%	88%	93 x 42	1,48	UL CSA CE NEMKO
100	7,80%	89%	100 x 47	1,68	UL CSA CE NEMKO
100	7,30%	90%	105 x 44	1,96	UL CSA CE NEMKO
150	7,00%	91%	108 x 52	2,24	UL CSA CE NEMKO
180	6,50%	92%	113 x 55	2,85	UL CSA CE NEMKO
200	6,20%	92%	117 x 65	2,97	UL CSA CE NEMKO
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350	5,50%	93%	110 x 92	4,25	UL CSA CE
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450	4,80%	94%	131 x 80	4,92	UL CSA CE
500	4,20%	94%	140 x 85	5,50	UL CSA CE
500	6,50%	92%	132 x 61	3,54	UL CSA CE
600	6,30%	92%	128 x 68	4,15	UL CSA CE
700	6,10%	92%	130 x 70	4,70	UL CSA CE
800	5,80%	93%	140 x 75	5,65	UL CSA CE
1000	5,60%	93%	150 x 89	7,40	UL CSA CE
1200	5,50%	93%	156 x 95	5,60	UL CSA CE
1500	5,20%	94%	170 x 75	8,30	UL CSA CE
1800	5,00%	94%	186 x 79	8,80	UL CSA CE
2000	4,80%	94%	196 x 80	10,10	UL CSA CE
2500	4,60%	94%	196 x 83	11,20	UL CSA CE
3000	4,50%	94%	182 x 120	11,40	UL CSA CE
4000	4,20%	94%	185 x 125	13,75	UL CSA CE
5000	3,80%	95%	200 x 130	15,10	UL CSA CE

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I toroidali offrono una maggior efficienza e un vantaggio sia nel peso che nelle dimensioni rispetto ai tradizionali trasformatori lamellari. Il maggior vantaggio è dato dalla flessibilità delle dimensioni che possono essere molto più adattabili e rispondere maggiormente alle esigenze del cliente.

Il trasformatore toroidale dispone di un'estrema facilità di montaggio a vite con un kit di fissaggio consistente di un disco metallico o plastico con foro centrale e due dischi in gomma. Alternativamente si può avere il trasformatore resinato al centro con un foro oppure incapsulato in un contenitore plastico o metallico.

Toroidal transformers have a higher efficiency and offer weight and space saving compared with traditional laminated transformers. The flexibility of dimensions give us the possibility to design toroidal transformers according to the customer's requirements.

Toroidal transformers are easy to be assembled by screw or bolt with a metal washer and two rubber discs. Other fixing methods can be transformer with resin center potting through hole or complete encapsulation in plastic or metal case.

Die Ringkerntransformatoren haben mehr Effizienz als laminierte Transformatoren und bieten Vorteile in Gewicht und Abmessungen. Die Transformatoren-Größen haben eine größere Flexibilität und können leicht an die Bedürfnisse des Kunden angepasst werden. Ringkerntransformatoren sind einfach zu montieren, sie werden mit einem Metallscheibe und zwei Gummischeiben durch eine Schraube gesichert. Eine Alternativ ist Ringkerntransformatoren mit Harz in das Mittelloch oder in Gehäuse gekapselt.



# CONTATTI CONTACTS

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