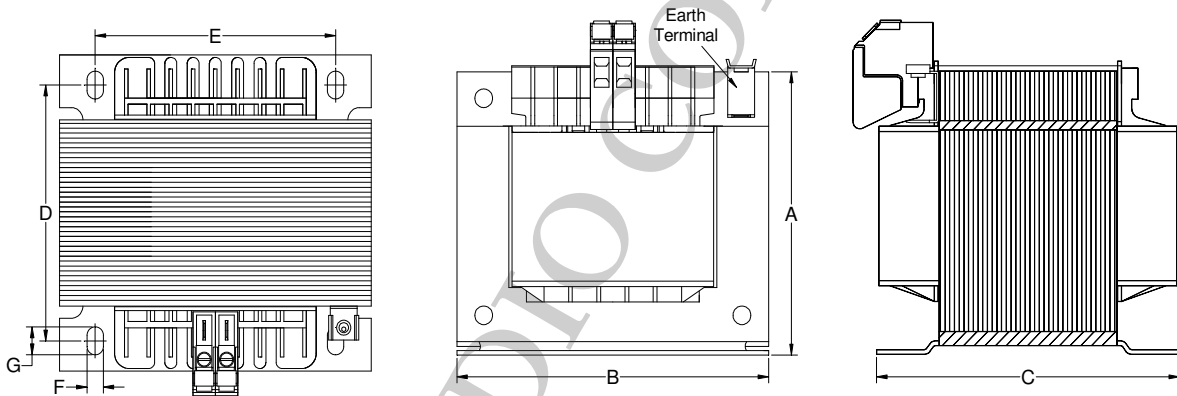




## TL494 Series

- Frequency – 50/60 Hz
- Insulation class F (155°C)
- Max. ambient temperature (ta): +40°C
- Protection against electric shock – Class I
- Time of operating – continuous
- Dielectric strength – 4000Vrms
- Degree of protection – IP00
- Type of connection – screw terminal block / flat connector 6.3x0.8
- Construction conforms to EN60289, EN61558-2-20, UL5085-1/-2 & CSA C22.2 #66.1 / #66.2



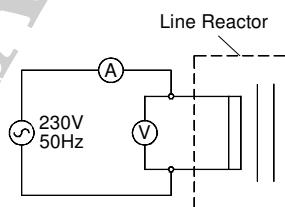
Product Series	Dimension (mm)							Weight (kg)
	A	B	C	D	E	F	G	
TL494A	70.0	76.0	56.0	42.0	50.0	4.8	8.0	1.1
TL494B	77.0	84.0	78.0	64.0	64.0	4.8	8.5	1.6
TL494C	77.0	84.0	78.0	64.0	64.0	4.8	8.5	2.1
TL494D	87.0	96.0	101.0	86.0	84.0	5.8	10.0	2.8
TL494E	87.0	96.0	101.0	86.0	84.0	5.8	10.0	3.7
TL494F	96.0	105.0	103.0	85.6	80.2	5.8	12.0	4.3
Tolerance	typ.	typ.	typ.	typ.	typ.	±0.5	±1.0	approx.

Note: (1) All terminal blocks are labeling with numerical labels.  
(2) Terminal:

- Screw type connection:
  - Solid: 0.5 – 6mm<sup>2</sup>
  - Stranded: 0.5 – 4mm<sup>2</sup>
- Flat type connection: 6.3x0.8

Part No.	Nominal Current		Inductance (mH)	DCR @25°C (mΩ)	Voltage Drop @50Hz (V)	Rated Output Power (VA)	<sup>3</sup> Total Power Loss (W)
	I <sub>RMS</sub> (A)	I <sub>SAT</sub> (A)					
TL494A-030-203	3	6	20.0	482	18.85	56.55	9
TL494B-030-343	3	6	34.5	707	32.52	97.56	12
TL494C-030-513	3	6	51.5	888	48.54	145.62	15
TL494A-040-123	4	8	13.0	279	16.34	65.36	9
TL494B-040-193	4	8	19.0	433	23.88	95.52	13
TL494C-040-283	4	8	29.0	538	36.44	145.76	16
TL494A-050-792	5	10	8.0	170	12.57	62.85	9
TL494B-050-123	5	10	12.5	269	19.63	98.15	13
TL494C-050-173	5	10	18.0	325	28.27	141.35	15
TL494D-050-293	5	10	29.5	379	46.34	231.70	18
TL494E-050-433	5	10	43.0	483	67.54	337.70	22
TL494A-060-502	6	12	5.0	115	9.42	56.52	9
TL494B-060-862	6	12	8.5	191	16.02	96.12	13
TL494C-060-143	6	12	14.5	251	27.33	163.98	17
TL494D-060-193	6	12	20.0	271	37.70	226.20	18
TL494E-060-303	6	12	31.0	355	58.43	350.58	23
TL494F-060-323	6	12	33.0	380	62.20	373.20	25
TL494A-080-322	8	16	3.0	73	7.54	60.32	10
TL494B-080-502	8	16	5.0	101	12.57	100.56	13
TL494C-080-692	8	16	7.0	121	17.59	140.72	15
TL494D-080-113	8	16	11.0	161	27.65	221.20	19
TL494E-080-173	8	16	17.5	207	43.98	351.84	23
TL494F-080-213	8	16	21.5	245	54.04	432.32	28
TL494D-100-702	10	20	7.0	103	21.99	219.90	19
TL494E-100-103	10	20	10.0	128	31.42	314.20	22
TL494F-100-153	10	20	15.0	167	47.12	471.20	30
TL494D-120-502	12	24	5.0	67	18.85	226.20	18
TL494E-120-702	12	24	7.0	83	26.39	316.68	21
TL494F-120-852	12	24	8.5	95	32.04	384.48	25
TL494E-150-392	15	30	4.0	51	18.85	282.75	20
TL494F-150-452	15	30	4.5	58	21.21	318.15	23

- Note:
- (1) Test Input Voltage : 230V / 50Hz.
  - (2) Approximate 5% inductance drop with double rated current.
  - (3) Total power loss include three components : Copper loss, Iron loss & Gap loss.
  - (4) All connections are routed to screw terminal block / flat connector 6.3x0.8.
  - (5) Earth terminal (screw terminal block / flat connector 6.3x0.8) can be provided if necessary.
  - (6) Inductance test setup for measurement:



$$\text{Impedance } X_L = \frac{V}{A} \quad (* \text{ Coil Resistance be ignored})$$

$$\text{Inductance } L = \frac{X_L}{2\pi f} \quad (* \text{ frequency } f = 50\text{Hz})$$

eg. TL494A-030-203 rated current is 3A.  
The measured voltage at rated current is approximate 18.85V.  
Therefore  $X_L$  at rated current is approximate 6.283ohm.  
And the inductance is approximate 20mH.