

NEELKANTH POWER SOLUTIONS

Data Sheet : Reference **DS - 104 / 1 / 0411**

'K'- Rated Transformer

Page 1 / 1



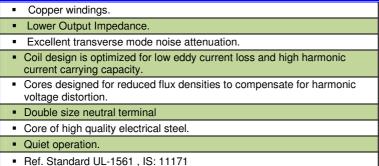
K' Rated Transformers are designed to reduce the heating effect of harmonic currents produced by non-linear loads. A standard transformer is not designed for nonlinear load and will overheat and fail prematurely when connected to these loads. K- Factor is defined as a ratio between the additional losses due to harmonics and the eddy current losses at 50 Hz. It is used to evaluate transformers for non-linear loads. The ANSI/ IEEEE C57. 110 has derived a system of weighing how much harmonic load currents a transformer can handle without exceeding its maximum temperature rise level. A K factor of 1 indicates no harmonics, while a K factor of 50 is the harshest harmonic environment possible. Typically a K Factor of 13 is sufficient for most applications. K factor must be determined to calculate the right size transformer that is needed.

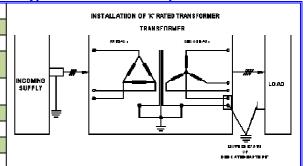
Technical Specification

KVA Rating	Upto 1000 KVA - Dry Type Available from K1 upto and including K20
Impedance	3 - 4 %
Input Voltage	415 Volts (other Voltage on Request)
Output Voltage	415 / 200 Volts (other Voltage on Request)
Input / Output configuration	Delta / Star or Zig - Zag
Construction	Dry Type, Double wound, Air Cooled, Common core, Varnish and vacuum impregnated
Winding	Copper
Neutral Conductor Rating	200 %
Frequency	50 / 60 Hz
Insulation Class / Level	H Class / 180 deg. C
Maximum temperature rise	125 deg. C
Enclosure type	M S Enclosure as per IP21
Enclosure Finish	Siemens Gray, RAL 7035 (Other colours available on request)
Flash Test / H.V Test	2500 Volts between winding to winding and to Earth
Ambient temperature	0 – 40 deg. C
Operating Humidity	0 to 90 %, non condensing
Reference Standard	UL-1561, IS: 11171

Special Features of K Rated Transformer

Typical schematics for product installation





Applications

Data centers, Call Centers, IPO	
Induction Heaters / Inverters	# Nonstandard KVA, Input Voltage and Out Voltage are also available on request.
UPS , VFD'S and Drives	# NEELKANTH reserves the right to amend design and specification without
HID Lightings	notice as Continuous efforts are made to Improve Products performance.
Hospital / Medical Centers , Research Labs	# Dimensional Detail available on request.
Corporate , Banking and Financial Institutions	

NEELKANTH POWER SOLUTIONS

10, Bishen Udyog Premises, Opp. Raja Industrial Estate. P. K. Road, Mulund (W), Mumbai- 80. INDIA. Tel: 022- 2592 2511, Fax: 022- 2592 2516, Customer Care: +91- 88796 36610 Email: info@neelpower.com, Web: www.neelpower.com

Our Products and Services