

Non-Linear Energy Efficient Transformers

Type NL and NLP are dry-type transformers intended to supply power to applications such as computers, copiers, printers, FAX machines, video display terminals, and other equipment having switched-mode power supplies. The standard type NL model and the premium type NLP model are built to handle high current distortion harmonics associated with such loads. The NLP transformer is designed particularly for more severe non-linear load applications.

General Features

- Three-phase dry-type transformers, 480 Delta—208Y/120
- Aluminum or copper windings
- Electrostatic shield
- Class 220 insulation
- Double size neutral terminal for additional customer neutral cables
- Additional coil capacity to compensate for higher non-linear load loss
- cULus Listed

Table 15: 480 V Delta Primary to 208Y/120 Secondary—K-4 Rated—Aluminum Windings; 115° C Rise

kVA	Part Number (Al)	Enclosure (Refer to pages 16–27)	Wiring Diagram	Weight (lbs)		°C Rise	Primary Current			Secondary Current	
				Al	Cu (Add CU before NL) ¹		Nameplate	NEC Max Rating 125%	NEC Max Rating 250%	Nameplate	NEC Max Rating 125%
15	EE15T3HFISNL	17D	Figure 1 on page 28	256	260	115	18.0	25	45	41.7	60
30	EE30T3HFISNL	18D		320	430	115	36.1	45	90	83.4	110
45	EE45T3HFISNL	20D		600	730	115	54.2	70	125	125.1	175
75	EE75T3HFISNL	21D		535	490	115	90.3	125	225	208.4	275
112.5	EE112T3HFISNL	22D		800	900	115	135.5	175	300	312.6	400
150	EE150T3HFISNL	24D		1110	1120	115	180.6	225	450	416.9	500
225	EE225T3HFISNL	25D		1349	1477	115	271.0	300	600	625.3	800
300	EE300T68HFISNL	30D	Figure 2 on page 29	1880	1880	115	361.3	450	900	833.7	1000
500	EE500T68HFISNL	31D		2295	2625	115	602.1	800	1500	1389.5	1600

¹ Example of copper part number: EE75T3HFISCUNL

Table 16: 480 V Delta Primary to 208Y/120 Secondary—K-13 Rated—Aluminum Windings; 115° C Rise

kVA	Part Number (Al)	Enclosure (Refer to pages 16–27)	Wiring Diagram	Weight (lbs)		°C Rise	Primary Current			Secondary Current	
				Al	Cu (Add CU before NL) ¹		Nameplate	NEC Max Rating 125%	NEC Max Rating 250%	Nameplate	NEC Max Rating 125%
15	EE15T3HFISNLP	17D	Figure 1 on page 28	256	260	115	18.0	25	45	41.7	60
30	EE30T3HFISNLP	18D		375	430	115	36.1	45	90	83.4	110
45	EE45T3HFISNLP	20D		500	730	115	54.2	70	125	125.1	175
75	EE75T3HFISNLP	21D		560	640	115	90.3	125	225	208.4	275
112.5	EE112T3HFISNLP	22D		800	985	115	135.5	175	300	312.6	400
150	EE150T3HFISNLP	24D		1110	1135	115	180.6	225	450	416.9	500
225	EE225T3HFISNLP	25D		1335	1477	115	271.0	300	600	625.3	800
300	EE300T68HFISNLP	30D	Figure 2 on page 29	1898	1895	115	361.3	450	900	833.7	1000
500	EE500T68HFISNLP	31D		3200	2625	115	602.1	800	1500	1389.5	1600

¹ Example of copper part number: EE75T3HFISCUNLP