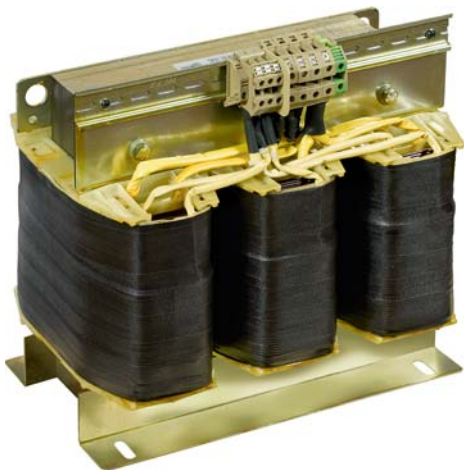


36.02 ///
THREE-PHASE
TRANSFORMERS



T3TULF - T3TUL up to 10 KVA



T3TUL - 11-25 KVA



General data

Rated input voltage	100-600 V
Rated output voltage	10-600 V
Rated power	from 100 to 25kVA
Insulation class	class F
Temperature class	class F

Application:

Three-phase transformers UL-CSA marked suitable for any industrial application.
 In particular:

- up to 5kVA: UL-CSA Listed marked
- from 5kVA to 25kVA: UL-CSA – Recognized component marked

Construction in accordance with the following standards

Standard

UL 5085 1 and 2 – Low voltage transformers
CSA 22.2 No 66

Ambient temperature	Ta=40°C
Protection degree	IP 00
Test voltage	4,2 KV/1'
Terminals	terminal blocks or bars

Certifications

	(Listed) FILE E169331 vol. 2-sec. 1-2
	(Recognized) File E169331 vol.1 sec. 2
	Insulation System : File 215141 vol.1

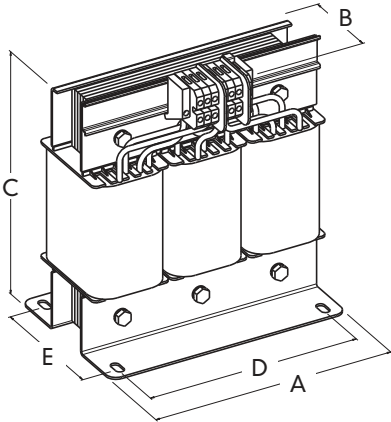


Fig. 1

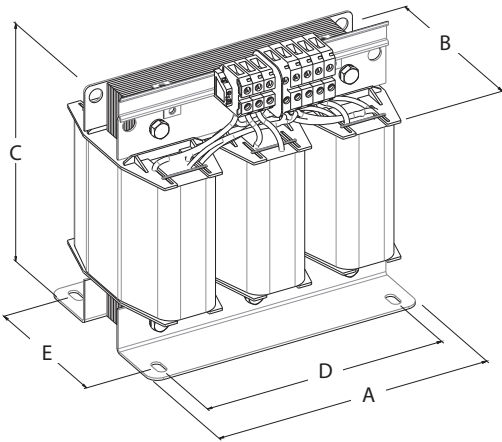


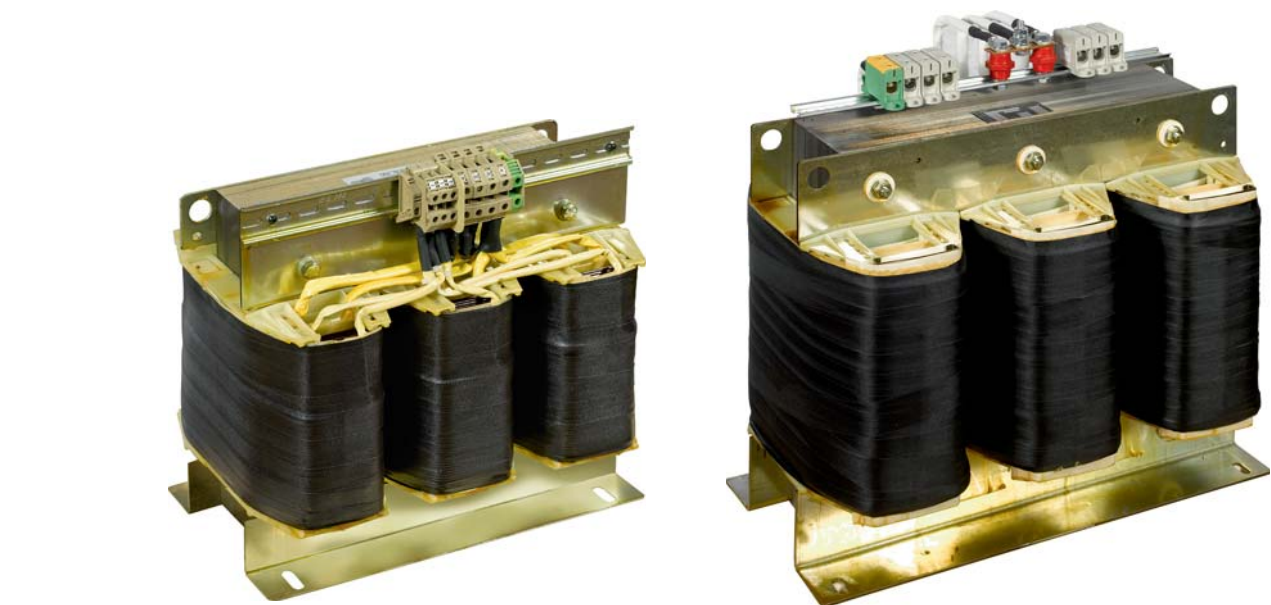
Fig. 2

Technical data T3TULF - T3TUL

CODE	RATED POWER	APPROVALS	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT	FIG.
	kVA			A	B	C	D	E	Kg	
T3TULF-0,1...	0,1		F	120	75	110	100	50	2,1	1
T3TULF-0,16...	0,16		F	120	85	110	100	60	2,8	1
T3TULF-0,25...	0,25		F	151	95	150	125	60	3,8	1
T3TULF-0,4...	0,4		F	151	110	150	125	75	5,5	1
T3TULF-0,5...	0,5		F	180	120	190	150	72	6,7	1
T3TULF-0,75...	0,75		F	180	140	190	150	92	10,9	1
T3TULF-1...	1		F	240	145	260	200	80	15	1
T3TULF-1,5...	1,5		F	240	155	260	200	90	17,6	1
T3TULF-2...	2		F	240	170	260	200	100	24,8	1
T3TULF-2,5...	2,5		F	240	185	260	200	115	28,1	1
T3TULF-3...	3		F	300	160	315	250	91	33	1
T3TULF-4...	4		F	300	170	315	250	101	39	1
T3TULF-5...	5		F	300	190	315	250	121	49	1
T3TUL-6...	6		F	360	170	365	300	106	58	1
T3TUL-7...	7		F	360	180	365	300	116	62	1
T3TUL-8...	8		F	360	190	365	300	126	66	1
T3TUL-9...	9		F	360	200	365	300	136	69	1
T3TUL-10...	10		F	360	210	365	300	146	75	1
T3TUL-15...	15		F	420	250	450	375	150	89	2
T3TUL-20...	20		F	420	270	450	375	172	110	2
T3TUL-25...	25		F	480	300	450	440	180	125	2

Electrical data

RATED POWER		LOSSES (W)		EFFICIENCY		Ucc %			INRUSH CURRENT
KVA		no-load	load (75°C)	total	%	Ucc X	Ucc R	Ucc tot	x In
T3TULF	0,1	5	15	20	83	-	-	13,5	24
	0,16	6,5	19,5	26	85,8	-	-	10,9	25
	0,25	7,5	24	31,5	88,4	-	-	9	26
	0,4	11,5	38	49,5	88,6	-	-	8,8	28
	0,5	15	26,5	41,5	92,2	-	-	5,1	28
	0,75	22,5	30	52,5	93,3	-	-	3,9	29
	1	25,8	42	67,8	93,6	-	-	4	20
	1,5	30	64,5	94,5	93,9	-	-	4,2	18
	2	37,5	102	139,5	93,4	-	-	4,8	18
	2,5	46	114	160	93,9	-	-	4,4	16
T3TUL	3	47	129	176	94,3	-	-	4,2	16
	4	58	186	244	94,2	-	-	4,5	16
	5	76	169	245	95,3	-	-	3,4	18
	6	84	300	384	94	-	-	5,2	15
	7	100	285	385	94,7	-	-	4,4	17
	8	110	355	465	94,5	-	-	4,5	16
	9	122	384	506	94,7	-	-	4,3	16
	10	135	387	522	95,06	1,46	4,3	4,55	16
	15	192	440	632	96,22	1,7	3,17	3,6	18
	20	140	570	710	96,78	1,68	2,6	3,1	19
	25	160	720	880	96,6	2,77	2,88	4	18



T3T up to 10 KVA

T3T 11-40 KVA



General data

Rated input voltage	100-600 V
Rated output voltage	24-600 V
Rated power	up to 25 k VA (safety transformers) up to 40 kVA (isolating transformers)
Insulation class	class F / H
Temperature class	class F / H

Ambient temperature	Ta=40°C
Protection degree	IP 00
Standard vector group	Dyn11 (others upon request)
Test voltage	4,2 KV/1'
Terminals	terminal blocks or bars

Application:

Three-phase transformers suitable for any industrial application where it is required the separation between the load and the net. Construction in accordance with the following standards:

Standard

CEI-EN 61558; p. 2-4 – Isolating transformers
CEI-EN 61558; p. 2-6 – Safety transformers
IEC 61558; 2-4; 2-6

Upon request:

- The transformers could be customized with:
- different voltages
 - regulations
 - taps on primary or secondary
 - different enclosures
 - wheels for movement
 - vibration absorbers
 - electrostatic screen between primary and secondary
 - temperature control unit with 3PT100 probes inserted



STEEL ENCLOSURE for three-phase transformers pag. 40

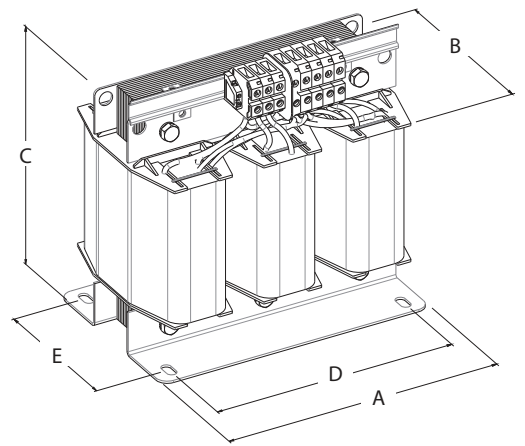
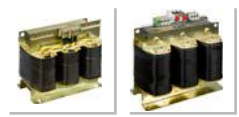


Fig.1

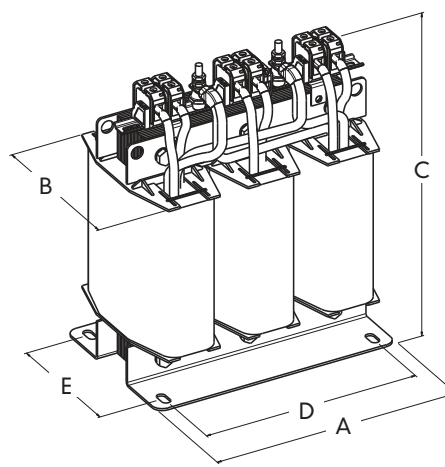


Fig. 2

Technical data T3T

CODE	RATED POWER	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT FIG. BOX		
	KVA		A	B	C	D	E	Kg		
T3T-0,1...	0,1	F	120	75	110	100	50	2,1	1	-
T3T-0,16...	0,16	F	120	85	110	100	60	2,8	1	-
T3T-0,25...	0,25	F	151	95	150	125	60	3,8	1	-
T3T-0,4...	0,4	F	151	110	150	125	75	5,5	1	-
T3T-0,5...	0,5	F	180	120	190	150	72	6,7	1	-
T3T-0,75...	0,75	F	180	140	190	150	92	10,9	1	-
T3T-1...	1	F	240	145	260	200	80	15	1	-
T3T-1,5...	1,5	F	240	155	260	200	90	17,6	1	-
T3T-2...	2	F	240	170	260	200	100	24,8	1	-
T3T-2,5...	2,5	F	240	185	260	200	115	28,1	1	-
T3T-3...	3	F	300	160	315	250	91	33	1	...-1
T3T-4...	4	F	300	170	315	250	101	39	1	...-1
T3T-5...	5	F	300	190	315	250	121	49	1	...-1
T3T-6...	6	F	360	170	365	300	106	58	1	...-2
T3T-7...	7	F	360	180	365	300	116	62	1	...-2
T3T-8...	8	F	360	190	365	300	126	66	1	...-2
T3T-9...	9	F	360	200	365	300	136	69	1	...-2
T3T-10...	10	F	360	210	365	300	146	75	1	...-2
T3T-15...	15	F	420	250	420	375	150	89	2	...-3
T3T-20...	20	F	420	270	420	375	172	110	2	...-3
T3T-25...	25	F	480	270	450	440	180	125	2	...-4
T3T-30...	30	F	480	280	450	440	190	145	2	...-4
T3T-40...	40	F	480	315	450	440	220	178	2	...-4

Electrical data

RATED POWER		LOSSES (W)		EFFICIENCY		Ucc %		INRUSH CURRENT
KVA	no-load	load (75°C)	total	%	Ucc X	Ucc R	Ucc tot	x In
0,1	5	15	20	83	-	-	13,5	24
0,16	6,5	19,5	26	85,8	-	-	10,9	25
0,25	7,5	24	31,5	88,4	-	-	9	26
0,4	11,5	38	49,5	88,6	-	-	8,8	24
0,5	15	26,5	41,5	92,2	-	-	5,1	22
0,75	22,5	30	52,5	93,3	-	-	3,9	25
1	25,8	42	67,8	93,6	-	-	4	20
1,5	30	64,5	94,5	93,9	-	-	4,2	18
2	37,5	102	139,5	93,4	-	-	4,8	17
2,5	46	114	160	93,9	-	-	4,4	15
3	47	129	176	94,3	-	-	4,2	15
4	58	186	244	94,2	-	-	4,5	15
5	76	169	245	95,3	-	-	3,4	16
6	84	300	384	94	-	-	5,2	14
7	100	285	385	94,7	-	-	4,4	15
8	110	355	465	94,5	-	-	4,5	15
9	122	384	506	94,7	-	-	4,3	15
10	135	387	522	95,06	1,46	4,3	4,55	16
15	192	440	632	96,22	1,7	3,17	3,6	16
20	140	570	710	96,78	1,68	2,6	3,1	16
25	160	720	880	96,6	2,77	2,88	4	18
30	190	800	990	96,81	2,18	2,67	3,45	17
40	235	950	1185	97,12	1,98	2,38	3,1	15



T3T up to 80 KVA



T3T 81-1000 KVA



General data

Rated input voltage	up to 1000 V
Rated output voltage	up to 1000 V
Rated power	41 to 1000 kVA
Insulation class	class F / H
Temperature class	class F / H

Ambient temperature	Ta=40°C
Protection degree	IP 00
Standard vector group	Dyn11 (others upon request)
Test voltage	3 KV/1'
Terminals	terminal blocks or bars

Application:

Three-phase transformers suitable for any industrial application where it is required the isolation or voltage variation between the load and the net. Construction in accordance with the following standards:

Standard

CEI-EN 60076
IEC 60076

Upon request:

- The transformers could be customized with:
- different voltages
 - regulations
 - taps on primary or secondary
 - different enclosures
 - wheels for movement
 - vibration absorbers
 - electrostatic screen between primary and secondary
 - temperature control unit with 3PT100 probes inserted



STEEL ENCLOSURE for three-phase transformers pag. 40

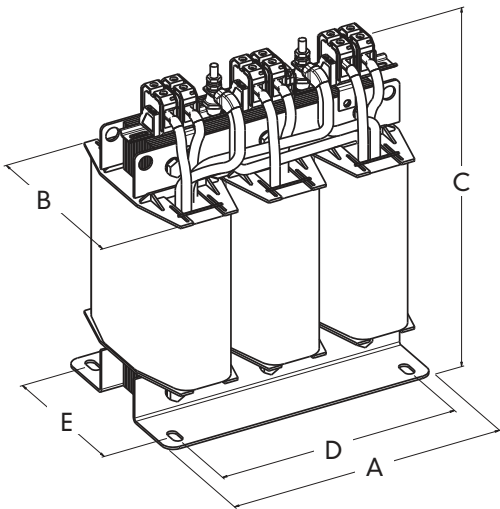


Fig. 1

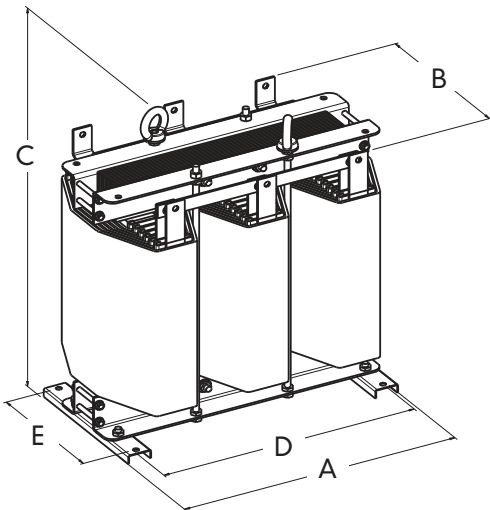


Fig. 2

Technical data T3T

CODE	RATED POWER	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT Kg	FIG	BOX
	KVA		A	B	C	D	E			
T3T-50...	50	F	600	350	600	540	250	220	1	...-5
T3T-60...	60	F	600	360	600	540	260	230	1	...-5
T3T-80...	80	F	600	390	600	540	290	280	1	...-5
T3T-100...	100	F	600	420	600	540	320	330	2	...-5
T3T-125...	125	F	720	420	740	660	300	390	2	...-6
T3T-160...	160	F	720	460	740	660	340	510	2	...-6
T3T-200...	200	F	720	480	740	660	360	570	2	...-6
T3T-250	250	F	720	510	740	660	380	660	2	...-6
T3T-315	315	F	720	550	740	660	430	780	2	...-6
T3T-400	400	F	960	630	920	-	-	1090	2	...-7
T3T-500	500	F	960	680	920	-	-	1335	2	...-7
T3T-630	630	F	960	730	920	-	-	1575	2	...-7
T3T-800...	800	F	1080	650	1190	-	-	1670	2	...-8
T3T-1000...	1000	F	1080	700	1190	-	-	2020	2	...-8

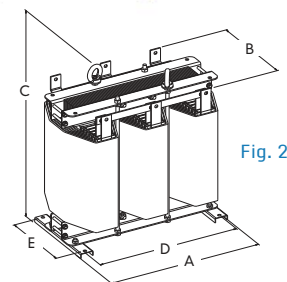
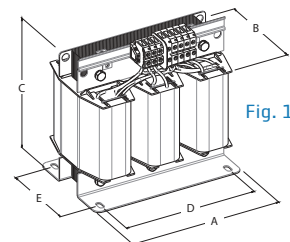
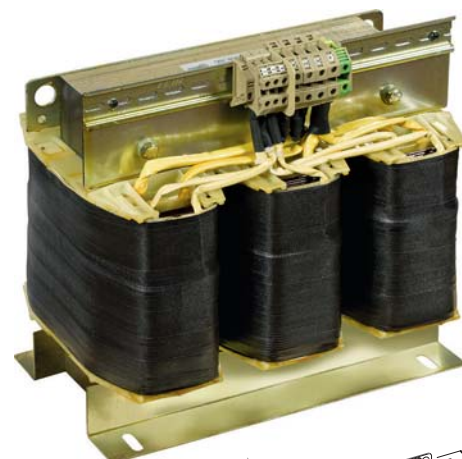
Electrical data

RATED POWER	LOSSES (W)			EFFICIENCY	Ucc %			INRUSH CURRENT
KVA	no-load	load (75°C)	total	%	Ucc X	Ucc R	Ucc tot	x In
50	245	1300	1545	97	4,32	2,6	5,05	18
60	265	1600	1865	96,99	4,4	2,67	5,15	15
80	340	1900	2240	97,28	4,39	2,38	5	15
100	430	2200	2630	97,44	3,75	2,2	4,35	16
125	400	2400	2800	97,81	4,23	1,92	4,65	14
160	520	2800	3320	97,97	3,03	1,75	3,5	14
200	560	3100	3660	98,2	3,46	1,55	3,8	14
250	670	3500	4170	98,36	3,47	1,4	3,75	13
315	840	4000	4840	98,49	3,52	1,27	3,75	14
400	1120	5060	6180	98,5	6,37	1,27	6,5	15
500	1340	5565	6905	98,6	5,34	1,12	5,5	15
630	1650	6780	8430	98,7	4,86	1,08	5	16
800	1760	9150	10910	98,8	5,56	1,15	5,7	8
1000	2100	9250	11350	98,9	4,79	0,93	4,9	8

T3TAH-UL

NEW

LV three-phase **INDUSTRIAL CONTROL** transformers
UL-CSA up to 80kVA **Three-phase transformer**



General data

Rated input voltage	up to 1000 V
Rated output voltage	up to 1000 V
Rated power	3 to 80 kVA
Insulation class	class H
Temperature class	class F / H

Ambient temperature	Ta=40°C
Protection degree	IP 00
Standard vector group	Dyn11 (others upon request)
Test voltage	3 KV/1'
Terminals	terminal blocks or bars

Application:

Three-phase transformers suitable for any industrial application where it is required the isolation or voltage variation between the load and the net. Suitable for UL labeled industrial control panels according to UL guideline UL 5085. Construction in accordance with the following standards:

Standard

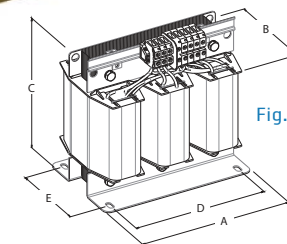
CEI-EN 60076
IEC 60076
UL 5085 1 and 2 Low Voltage Transformers
CSA 22.2 No. 66

Technical data T3TAH-UL

CODE	RATED POWER	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT	FIG.	LOSSES (W)			EFFICIENCY	UCC	INRUSH CURRENT
			A	B	C	D	E			no-load	load	total	%	%	x In
T3TAHUL-3...	3	H	300	170	315	250	110	30	1	60	210	270	91,7	5,8	20
T3TAHUL-5...	5	H	300	190	315	250	140	40	1	85	280	365	93,2	5,2	18
T3TAHUL-7,5...	7,5	H	360	200	356	325	150	62	1	115	330	445	94,4	4,6	17
T3TAHUL-10...	10	H	360	230	356	325	180	80	1	125	350	475	95,4	4,2	17
T3TAHUL-15...	15	H	420	250	415	375	170	91	1	125	540	665	95,7	4,2	18
T3TAHUL-20...	20	H	420	270	415	375	200	135	1	205	500	705	96,6	3,7	18
T3TAHUL-25...	25	H	480	300	445	425	190	145	1	190	710	900	96,5	3,5	18
T3TAHUL-30...	30	H	480	320	445	425	210	155	1	210	760	970	96,8	3,4	17
T3TAHUL-35...	35	H	480	340	445	425	230	180	1	235	860	1095	96,9	3,2	17
T3TAHUL-40...	40	H	480	350	445	425	240	190	1-2	250	970	1220	97	3,2	17
T3TAHUL-45...	45	H	600	350	600	540	220	200	1-2	250	1430	1680	96,5	4,8	10
T3TAHUL-50...	50	H	600	360	600	540	230	220	1-2	270	1480	1750	96,6	5,5	9
T3TAHUL-60...	60	H	600	380	600	540	250	250	1-2	320	1565	1885	97	4,7	9
T3TAHUL-70...	70	H	600	390	600	540	260	270	1-2	340	1830	2170	97	4,9	9
T3TAHUL-80...	80	H	600	410	600	540	280	305	1-2	390	1950	2340	97,2	4,6	9

Electrical data

LV three-phase **GENERAL PURPOSE** auto-transformers
UL-CSA up to 250 kVA **Three-phase auto-transformer**

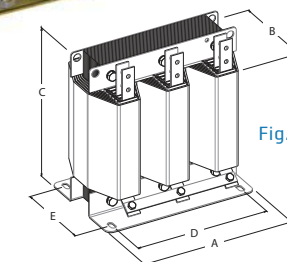
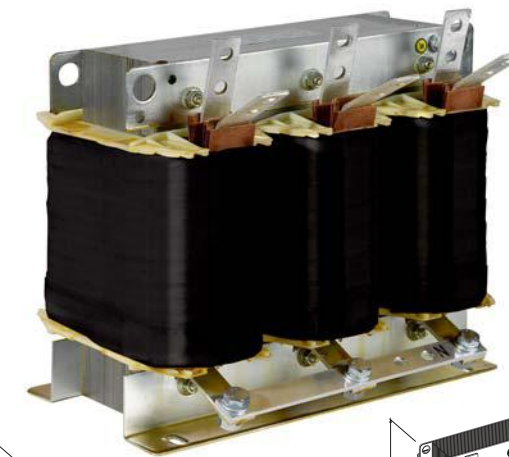


General data

Three-phase auto-transformers are electrical machine with one single common wiring where primary and secondary are not galvanically separated. They have smaller construction compared to the same isolating transformers. Typical applications are speed control for Fans, Starting of big three-phase Electric Motors, etc... Auto-transformers do not protect from earth failure. Their special feature is that the nearer are the values of the input and output voltage, the more cost-effective are auto-transformers. It is clear that auto-transformers should be calculated and designed every time, based on customer requests, since the input and output voltages are critical to determine the correct electrical sizing. Construction in accordance with the following standards:

Standard

CEI-EN 61558; p. 2-13
UL 5058 1-2 up to 345Amps (generally equivalent to 250kVA of nominal power and core power up to 80kVA)



The design rating power could be calculated by the following formula:

$$\text{Design rating} = P_{nom} \left(1 - \frac{V_1}{V_2} \right)$$

where:

P_{nom} = rated power (VA)
V₁ = lower voltage (V)
V₂ = higher voltage(V)

Example:

P_{nom} = 100 kVA
V₁ = 380 V
V₂ = 480 V

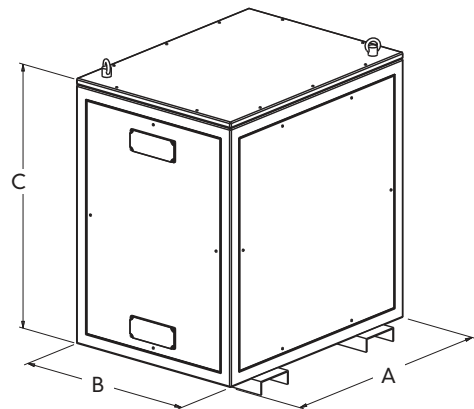
$$\text{Design rating} = 100 \times \left(1 - \frac{380}{480} \right) = 21 \text{ kVA}$$

In this case technical data are referred to AT3TH-UL-20kVA

Technical data AT3TH-UL

CODE	DESIGN RATING	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT	FIG.	LOSSES (W)			EFFICIENCY	UCC	INRUSH CURRENT
			A	B	C	D	E			no-load	load	TOTAL	%	%	x In
AT3TH-UL-...	3	H	300	170	315	250	110	30	1	60	210	270	91,7	5,8	20
	5	H	300	190	315	250	140	40	1	85	280	365	93,2	5,2	18
	7,5	H	360	200	356	325	150	62	1	115	330	445	94,4	4,6	17
	10	H	360	230	356	325	180	80	1	125	350	475	95,4	4,2	17
	15	H	420	250	415	375	170	91	1	125	540	665	95,7	4,2	18
	20	H	420	270	415	375	200	135	1	205	500	705	96,6	3,7	18
	25	H	480	300	445	425	190	145	1	190	710	900	96,5	3,5	18
	30	H	480	320	445	425	210	155	1	210	760	970	96,8	3,4	17
	35	H	480	340	445	425	230	180	1	235	860	1095	96,9	3,2	17
	40	H	480	350	445	425	240	190	2	250	970	1220	97	3,2	17
	45	H	600	350	600	540	220	200	2	250	1430	1680	96,5	4,8	10
	50	H	600	360	600	540	230	220	2	270	1480	1750	96,6	5,5	9
	60	H	600	380	600	540	250	250	2	320	1565	1885	97	4,7	9
	70	H	600	390	600	540	260	270	2	340	1830	2170	97	4,9	9
	80	H	600	410	600	540	280	305	2	390	1950	2340	97,2	4,6	9

Electrical data



General data

Rated input voltage	up to 1000 V	Ambient temperature	Ta=40°C
Rated output voltage	up to 1000 V	Protection degree	with enclosure IP55
Rated power	10 to 300 kVA	Standard vector group	Dyn11 (others upon request)
Insulation class	class F-H	Test voltage	3 KV/1'
Temperature class	class F	Terminals	terminal blocks or bars

Application:

Three-phase transformers suitable for any industrial application where the protection degree IP55 is required. The enclosure is pre-galvanized steel painted with polyester resin for external without fan ventilation. Construction in accordance with the following standards:

Standard

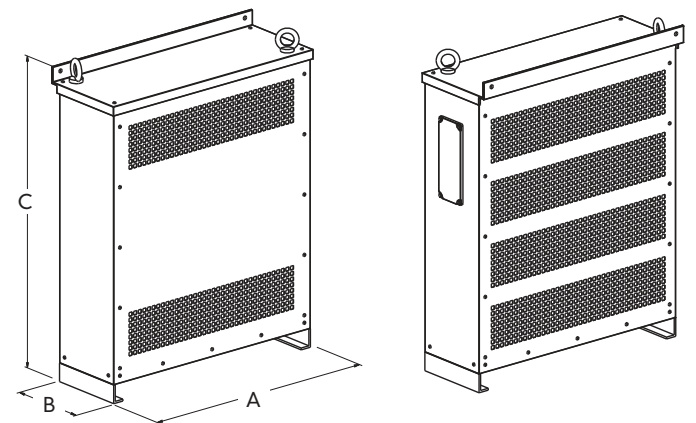
CEI-EN 60076
IEC 60076

For higher power please contact METH

Technical data T3X

CODE	RATED POWER	INSULATION CLASS	DIMENSIONS (mm)			WEIGHT	LOSSES (W)			EFFICIENCY	Ucc X	Ucc R	Ucc tot	INRUSH CURRENT
			A	B	C		no-load	load (75°C)	total					
T3X-10...	10	F	750	650	850	200	150	200	350	96,6	1,67	2	2,6	21
T3X-15...	15	F	850	700	850	220	170	280	450	97	1,16	1,87	2,2	19
T3X-20...	20	F	850	700	950	240	190	350	540	97,3	1,65	1,75	2,4	20
T3X-25...	25	F	850	700	950	270	250	410	660	97,4	1,32	1,64	2,1	17
T3X-30...	30	F	850	700	950	290	280	460	740	97,5	1,28	1,54	2	18
T3X-40...	40	F	1000	850	1100	320	300	650	950	97,6	2,99	1,63	3,4	15
T3X-50...	50	F	1000	850	1100	345	350	850	1200	97,6	2,72	1,7	3,2	14
T3X-60...	60	F	1000	850	1100	380	420	1000	1420	97,6	2,25	1,67	2,8	14
T3X-80...	80	F	1000	850	1100	460	500	1250	1750	97,8	2,2	1,57	2,7	13
T3X-100...	100	F	1200	1000	1300	610	550	1300	1850	98,1	2,14	1,3	2,5	11
T3X-125...	125	F	1200	1000	1300	680	600	1500	2100	98,3	2,08	1,2	2,4	10
T3X-160...	160	F	1200	1000	1300	770	700	1800	2500	98,4	2,24	1,13	2,5	10
T3X-200...	200	F	1200	1000	1360	990	900	2000	2900	98,5	2,19	1	2,4	9
T3X-300...	300	F	1600	1200	1550	1250	1000	2530	3530	98,8	4,14	0,85	4,2	9

Electrical data



ECO-DESIGN

General data

Standard input voltage	230 V	Protection degree	IP20
Standard output voltage	400 V	Standard vector group	YNd11 (others upon request)
Rated power	from 6,3 to 30 kVA	Inrush current	≤10 x In
Insulation class	class F-H	Test voltage	4,2 KV/1'
Temperature class	class B	Terminals	terminal blocks
Standard ambient temperature	Ta=40°C		

Application:

Three-phase transformers designed for maximum utilization of the transformer design. They have very low losses and inrush current, high efficiency and very compact construction in order to save space and reduce energy consumption. Construction in accordance with the following standards:

Standard

EN 61558, p.2-4 and directive 2009/125/EC

Technical data T3SL

CODE	RATED POWER	DIMENSIONS (mm)			WEIGHT	LOSSES (W)		I sec	EFFICIENCY	Ucc X	Ucc R	Ucc tot	INRUSH CURRENT
		A	B	C		no-load	load (75°C)						
T3SL-6,3...	6,3	640	220	800	115	31	153	9,1	97,1	2,72	2,8	3,65	7
T3SL-10...	10	640	220	800	135	40	240	14,4	97,2	3,48	2,73	4,24	7
T3SL-12,5...	12,5	640	220	800	150	48	295	18,1	97,3	2,14	2,7	3,21	9
T3SL-16...	16	640	220	800	175	64	315	23,1	97,7	1,77	2,3	2,65	10
T3SL-18...	18	640	220	800	195	64	385	26	97,8	2,56	2,2	3,19	9
T3SL-20...	20	790	240	1050	205	60	514	29	97,2	4,54	2,9	5,22	7
T3SL-25...	25	790	240	1050	230	83	495	36,1	97,7	3,64	2,3	4,15	8
T3SL-30...	30	790	240	1050	245	88	620	43,3	97,7	3,7	2,3	4,22	8

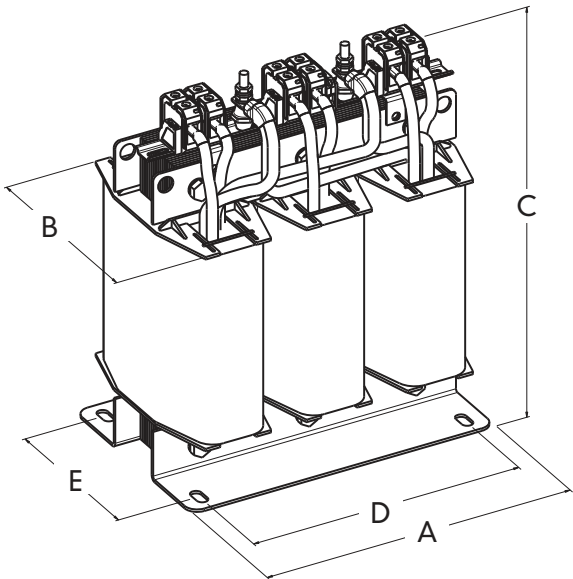
Electrical data



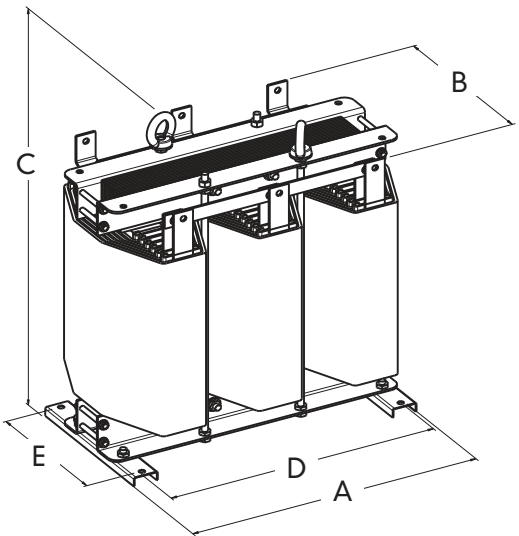
T3TFTV UP TO 60 Kva



T3TFTV 61-250 Kva



T3TFTV UP TO 60 Kva



T3TFTV 61-250 Kva

Technical data T3TFTV UP TO 60 Kva

CODE	RATED POWER	APPROVALS	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT Kg	BOX
	KVA			A	B	C	D	E		
T3TFTV-10	10	B	420	210	390	375	160	90	...-3	
T3TFTV-15	15	B	420	240	390	375	190	120	...-3	
T3TFTV-20	20	B	480	260	450	440	200	140	...-4	
T3TFTV-25	25	B	480	280	450	440	220	160	...-4	
T3TFTV-30	30	B	480	300	450	440	240	190	...-4	
T3TFTV-40	40	B	600	350	600	540	250	220	...-5	
T3TFTV-50	50	B	600	360	600	540	260	230	...-5	
T3TFTV-60	60	B	600	380	600	540	280	260	...-5	

Technical data T3TFTV UP TO 61-250 Kva

CODE	RATED POWER	APPROVALS	INSULATION CLASS	DIMENSIONS (mm)					WEIGHT Kg	BOX
	KVA			A	B	C	D	E		
T3TFTV-70	70	B	600	390	600	540	290	280	...-5	
T3TFTV-80	80	B	600	420	600	540	320	330	...-5	
T3TFTV-90	90	B	600	450	600	540	350	390	...-5	
T3TFTV-100	100	B	720	420	740	660	300	390	...-6	
T3TFTV-125	125	B	720	430	740	660	310	425	...-6	
T3TFTV-135	135	B	720	440	740	660	320	465	...-6	
T3TFTV-150	150	B	720	460	740	660	340	510	...-6	
T3TFTV-170	170	B	720	480	740	660	360	565	...-6	
T3TFTV-200	200	B	720	500	740	660	380	640	...-6	
T3TFTV-250	250	B	720	550	740	660	430	775	...-6	

Electrical data – Data referred to 400/400 V

RATED POWER	LOSSES (W)			EFFICIENCY	U _{cc}	INRUSH CURRENT
KVA	no-load	load (75°C)	total	%	%	x I _n
10	80	345	425	95,94	3,66	17
15	105	415	520	96,66	3,13	16
20	130	530	660	96,84	3,37	15
25	150	655	805	96,89	3,29	15
30	180	680	860	97,23	2,88	15
40	175	1060	1235	97,01	5,78	14
50	190	1285	1475	97,15	4,09	12
60	225	115	340	97,76	3,29	13
70	240	1335	1575	97,8	3,4	12
80	290	15005	15295	97,81	3,22	14
90	360	1360	1720	98,13	2,63	15
100	380	1780	2160	97,89	4,04	12
125	430	2080	2510	98,04	4,14	10
135	455	2220	2675	98,06	4,18	10
150	510	2140	2650	98,27	3,54	10
170	565	2390	2955	98,29	3,31	9
200	655	2470	3125	98,46	3,23	9
250	815	2970	3785	98,51	2,79	10



General data

Standard input voltage	400 V
Standard output voltage	400 V
Rated power	from 10 to 250 kVA
Insulation class	class F-H
Temperature class	class B
Standard ambient temperature	Ta=40°C

Protection degree	IP 00
Standard vector group	YNyn0 (others upon request)
Test voltage	3 KV/1'
Terminals	terminal blocks or bars
Terminals	terminal blocks or bars

Application:

Three-phase transformers with low losses and high performance suitable for galvanic separation in photovoltaic plants or other renewable energies. Construction is accordance with the following standards:

Standard

CEI-EN 60076
 IEC 60076



STEEL ENCLOSURE for three-phase transformers pag. 40