

Eco²truxure™
Innovation At Every Level

Set series
Trihal
Cast Resin Transformer up to 3150 kVA

Catalog 2021

Eco Design

Medium Voltage Distribution Transformer



se.com

Life Is On

Schneider
Electric

Same technology, same offer, simpler names

We're making it easier for you to navigate across the wide range of our world-class digital products and select the offers that are right for you and your needs with confidence.

EcoStruxure Architecture

To enable brand consistency, relevance and impact, we are reinforcing our EcoStruxure™ architecture and digital customer lifecycle tools to help ensure a seamless experience from the CAPEX to OPEX phases of each project, bridging our entire ecosystem of partners, services providers and end users.

EcoStruxure is our IoT-enabled open and interoperable system architecture and platform. EcoStruxure delivers enhanced values around safety, reliability, efficiency, sustainability and connectivity for our customers. EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity technologies to deliver Innovation At Every Level from Connected Products, Edge Control, Apps, and Analytics & Services: our IoT technology Levels.

Old names	New names
Ecodial	EcoStruxure Power Design
Ecoreal	EcoStruxure Power Build
Ecoreach	EcoStruxure Power Commission
MasterPact MTZ mobile App/Easergy mobile App	EcoStruxure Power Device App

Pact and Set Series

Featuring outstanding medium-voltage (MV) and low-voltage (LV) switchboards, motor control centers and power distribution solutions for high-performance power applications, Schneider Electric's Pact and Set Series are best-in-class solutions based on high levels of safety and an optimized footprint. Built on a modular architecture and incorporating smart connected devices for maximum safety, reliability, performance and energy efficiency, the Set Series is delivered to customers directly from our Schneider Electric plants or via a global network of licensed partner panel builders, who are trained and audited to provide quality equipment and support.

Old names	New names
HVX	EvoPact HVX
Premset	PremSet
Compact	ComPact
Masterpact	MasterPact
Transferpact	TransferPact
Fupact	FuPact

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PM105926



Cast resin, 50 Hz, three-phased distribution transformers with the following characteristics: Indoor use / Outdoor use with properly designed enclosure.

- Thermal class F - Temperature rise 100 K
- Ambient $\leq 40^{\circ}\text{C}$, altitude ≤ 1000 m
- Medium voltage windings encapsulated in cast resin
- Pre-impregnated low voltage windings
- Natural air cooling system (AN type)
- Core and frame covered with protective coating-suitable for C2 medium according ISO12944 standards

These transformers comply with standards:

- IEC 60076-11,
- EN 50708-1-1
- Ecodesign Directive EU 548-2014 and its amendment EU 2019/1783

Schneider Electric guarantees that its transformers are tested with IEC 60076-11 :2018:

- C4 Climatic class*
- E4 Environment
- F1 Fire behaviour class
- Partial discharge free - Acceptance level:
 - ≤ 10 pC Routine Test
 - ≤ 5 pC can be demonstrated through special test

Ecodesing regulation EU 2019/1783

- Maximal loss levels
- Statement on loss tolerances:
 - No tolerance on transformer design
 - 5% tolerance for end user checks
- Additional data requested on the name plates
 - Loss level and measured values
 - Type and weight of mail materials use
 - CE Marking is **mandatory**



Dry Type Transformers maximum loss levels according to Ecodesign

- Insulation voltage: MV ≤ 24 kV & LV ≤ 3.6 kV: AA_0A_k up to 3150 kVA
- Insulation voltage: MV ≤ 36 kV & LV ≤ 3.6 kV: AA_0A_k up to 3150 kVA

* Also, we have thermal shock test carried out at -50°C

PM105911



Trihal without enclosure

Trihal without enclosure (IP00)

- HV voltage variation by off circuit tapping links
- 4 bi-directional flat rollers
- 4 lifting holes
- 4 haulage holes on the underbase
- 2 earthing points
- 1 rating plate (on HV side)

PM106800



Trihal with enclosure

Trihal with IP31 metal enclosure (except underframe IP21)

- 2 lifting lugs for transformer and enclosure assembly
- 1 earthing point on enclosure
- access to HV tapping by removing a bolted panel
- enclosure final colour RAL9002.

Trihal Enclosure IP31 is available in 4 standards KIT upto 3150 kVA (except underframe IP21) for:

- Easy access to transformer room. No disassembling required
- Better end-of-life management, easy dismantling to sort and recycle waste
- Quick assembly and easy assembly, light parts, few and easy fixing devices



< 45 min



2 persons



Screw drivers:



Ø 17
Ø 10
Ø 8

15 kg max.



Now Trihal comes with a best-in-class digital experience to help you meet new challenges and reach Industry 4.0 objectives.

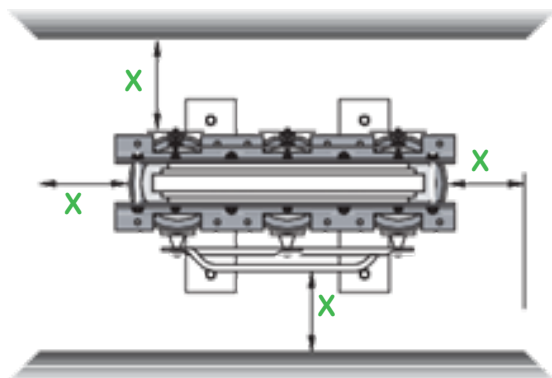
With its new connected features, Trihal is the perfect choice for smart distribution systems offering you:

- Real-time condition monitoring to optimize assets availability and reduce unscheduled down-time
- Reduced Total Cost of Ownership thanks to optimized maintenance
- Increased operator and equipment safety
- 24/7 connectivity, with remote alarming and real-time data supporting fast decision making
- Consistent monitoring solution across our MV portfolio, for both new and modernization projects
- Integration within any existing SCADA system
- Access to Schneider Electric cloud based digital services (EcoStruxure Asset Advisor)

Connections - Trihal transformers without enclosure housing (IP 00)

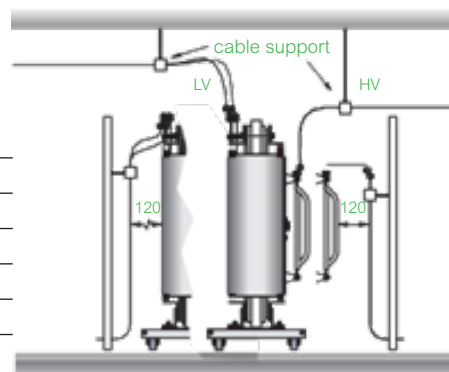
The winding resin coating and the plug-in connectors don't ensure any protection against touch when the transformer is energized. The contractor must ensure that cables and busbars are adequately supported to prevent mechanical stresses from being imposed on the transformer terminals, busbars or bushings.

Minimum clearances required



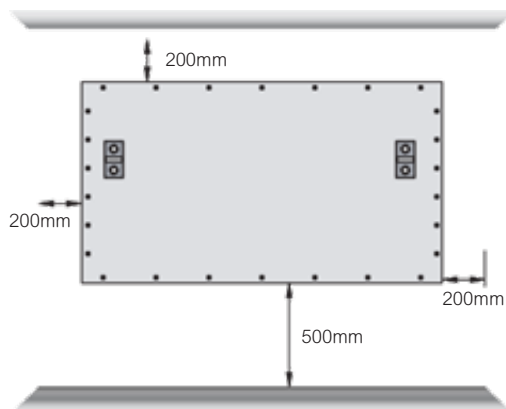
Insulation (kV)	Dimension X (mm)	
	Full wall	Grid wall
7.5	90	300
12	120	300
17.5 - 24	220	300

HV and LV connection

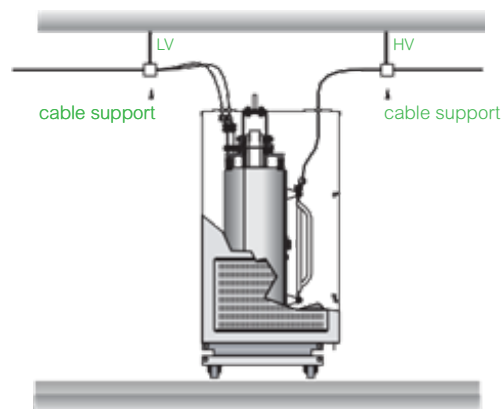


Connections - Trihal transformers with IP 31 metal enclosure

Minimum clearances required

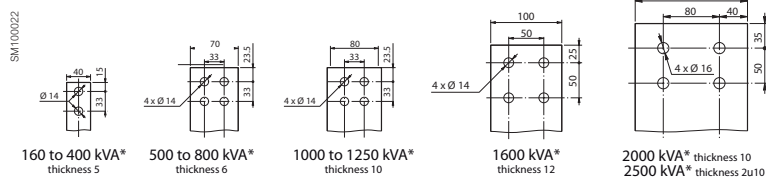


HV and LV connection



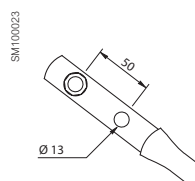
Terminations

LV Terminations



*Valid for aluminium terminations.

HV Terminations - EN 50180



Routine fittings such as bar and cable supports, flexible connectors, etc. will be supplied by the contractor, who will ensure that the transformer terminals are not subject to mechanical stresses.

Trihal - Cast Resin Transformer

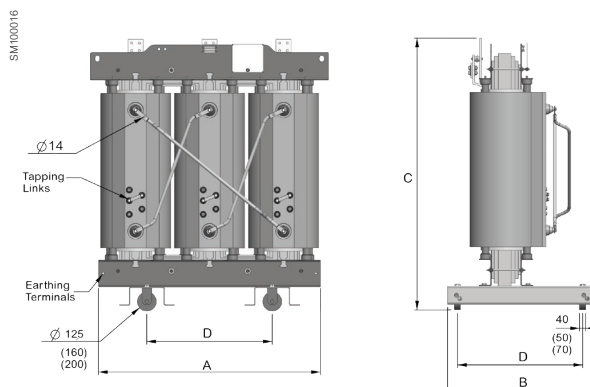
Up to 3150 kVA - 12 kV - C4 E4 F1 5pC** - BIL 1

Main electrical characteristics

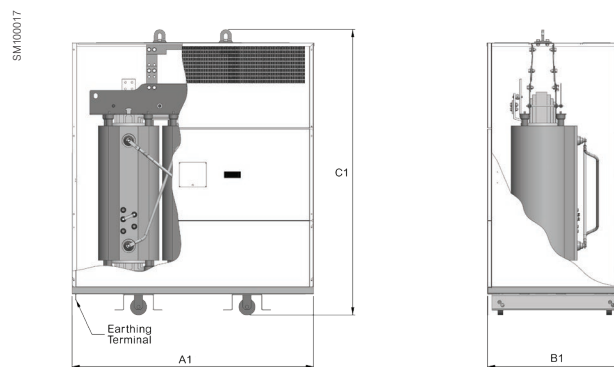
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	10kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	12 kV BIL 1 (60 / 28 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	360	468	557	675	812	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	3877	4500	5630	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	46	46	47	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1120	1170	1230	1300	1400	1370	1460	1470	1660	1700	1780	1920	2070
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1280	1370	1390	1460	1450	1780	1840	1840	1760	2030	2110	2220	2410
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		850	950	1100	1350	1500	1850	2250	2300	2850	3400	3900	4700	6150
With IP31 metal enclosure														
Dimensions (mm)	A1	1640	1640	1640	1640	1640	1840	1840	1840	2090	2090	2340	2340	2340
	B1	1030	1030	1030	1030	1030	1030	1030	1030	1180	1180	1280	1280	1280
	C1	1900	1900	1900	1900	2150	2150	2150	2150	2330	2330	2700	2700	2700
Weight enclosure (kg)		150	150	150	150	150	170	170	170	220	220	270	270	270
Total weight (kg)		1000	1100	1250	1500	1650	2020	2420	2470	3070	3620	4170	4970	6420

* Dimensions and weights without enclosure housing (IP00 & IP31)

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** Refer Page 4 Overview for more detail

Trihal - Cast Resin Transformer

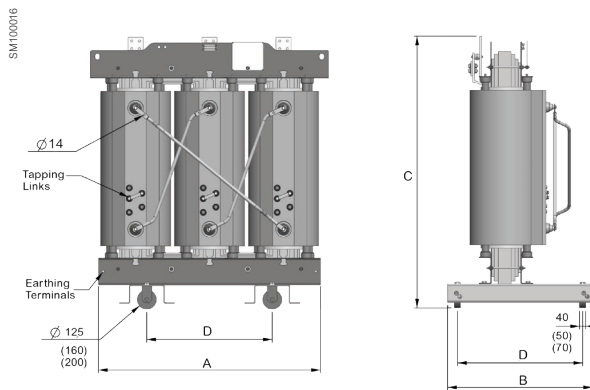
Up to 3150 kVA - 12 kV - C4 E4 F1 5pC** - BIL 2

Main electrical characteristics

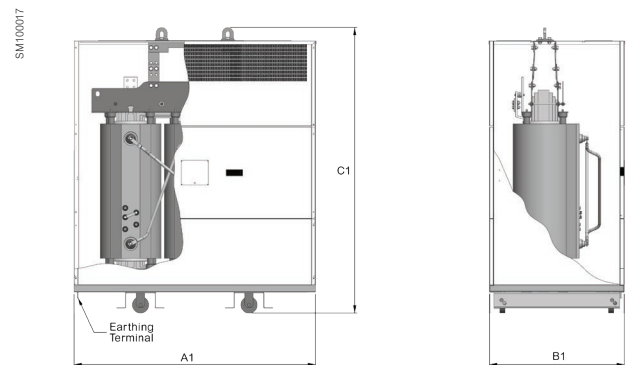
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	10kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	12 kV BIL 2 (75 / 28 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	360	468	557	675	812	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	3877	4500	5630	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	46	46	47	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1140	1200	1250	1320	1410	1420	1500	1530	1660	1750	1800	1840	1980
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1280	1370	1410	1460	1450	1550	1680	1860	1780	1940	2130	2330	2560
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		840	990	1140	1340	1460	1660	2060	2370	2880	3460	3960	4700	6120
With IP31 metal enclosure														
Dimensions (mm)	A1	1640	1640	1640	1640	1640	1640	1840	1840	2090	2090	2340	2340	2340
	B1	1030	1030	1030	1030	1030	1030	1030	1030	1180	1180	1280	1280	1280
	C1	1900	1900	1900	1900	1900	1900	2150	2150	2330	2330	2700	2700	2800
Weight enclosure (kg)		150	150	150	150	150	150	170	170	220	220	270	270	290
Total weight (kg)		990	1140	1290	1490	1610	1810	2230	2540	3100	3680	4230	4970	6410

* Dimensions and weights without enclosure housing (IP00 & IP31)

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Trihal - Cast Resin Transformer

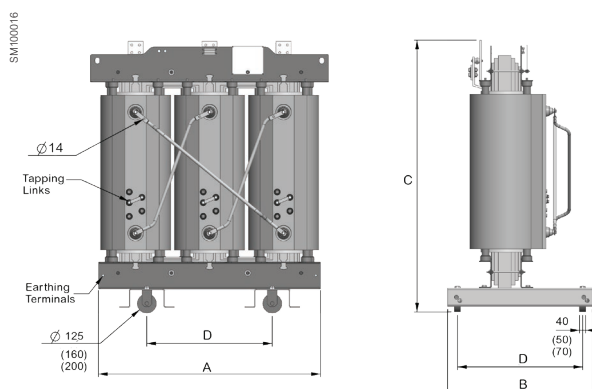
Up to 3150 kVA - 17.5 kV - C4 E4 F1 5pC** - BIL 1

Main electrical characteristics

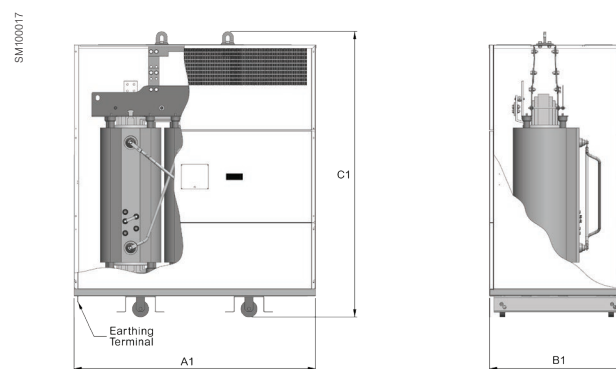
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	15 kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	17.5 kV BIL 1 (75 / 38 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	360	468	558	675	811	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	3876	4500	5630	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	45	46	47	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1170	1240	1300	1350	1390	1450	1490	1600	1650	1740	1830	1890	2070
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1310	1420	1420	1460	1540	1600	1810	1770	1930	2100	2160	2350	2440
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		790	1020	1150	1320	1500	1780	2080	2400	2840	3620	4140	4930	6050
With IP31 metal enclosure														
Dimensions (mm)	A1	1640	1640	1640	1640	1640	1840	1840	1840	2090	2090	2340	2340	2340
	B1	1030	1030	1030	1030	1030	1030	1030	1030	1180	1180	1280	1280	1280
	C1	1900	1900	1900	1900	1900	2150	2150	2150	2330	2330	2700	2700	2700
Weight enclosure (kg)		150	150	150	150	150	170	170	170	220	220	270	270	270
Total weight (kg)		940	1170	1300	1470	1650	1950	2250	2570	3060	3840	4410	5200	6320

* Dimensions and weights without enclosure housing (IP00 & Ip31)

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Trihal - Cast Resin Transformer

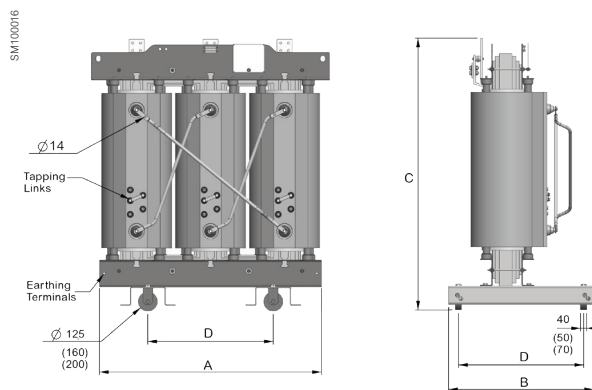
Up to 3150 kVA - 17.5 kV - C4 E4 F1 5pC** - BIL 2

Main electrical characteristics

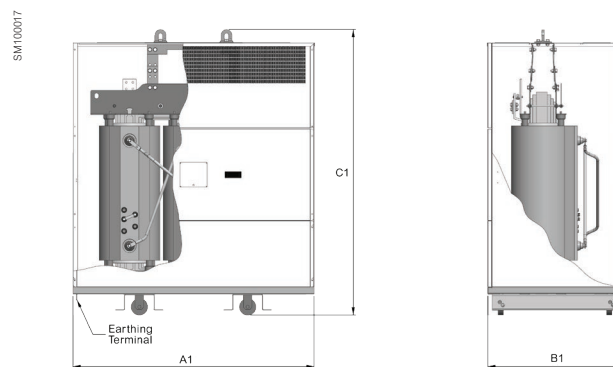
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	15 kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	17.5 kV BIL 2 (95 / 38 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	360	468	558	675	811	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	3876	4500	5630	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	45	46	47	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1170	1240	1300	1350	1390	1450	1490	1600	1650	1740	1830	1890	2070
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1310	1420	1420	1460	1540	1600	1810	1770	1930	2100	2160	2350	2440
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		790	1020	1150	1320	1500	1780	2080	2400	2840	3620	4140	4930	6050
With IP31 metal enclosure														
Dimensions (mm)	A1	1640	1640	1640	1640	1640	1840	1840	1840	2090	2090	2340	2340	2340
	B1	1030	1030	1030	1030	1030	1030	1030	1030	1180	1180	1280	1280	1280
	C1	1900	1900	1900	1900	1900	2150	2150	2150	2330	2330	2700	2700	2700
Weight enclosure (kg)		150	150	150	150	150	170	170	170	220	220	270	270	270
Total weight (kg)		900	1130	1260	1430	1640	1920	2220	2580	3020	3840	4360	5150	6320

* Dimensions and weights without enclosure housing (IP00 & IP31)

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** Refer Page 4 Overview for more detail

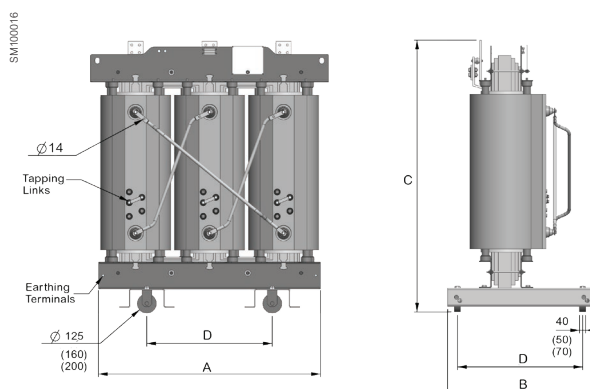
Trihal - Cast Resin Transformer Up to 3150 kVA - 24 kV - C4 E4 F1 5pC** - BIL 1

Main electrical characteristics

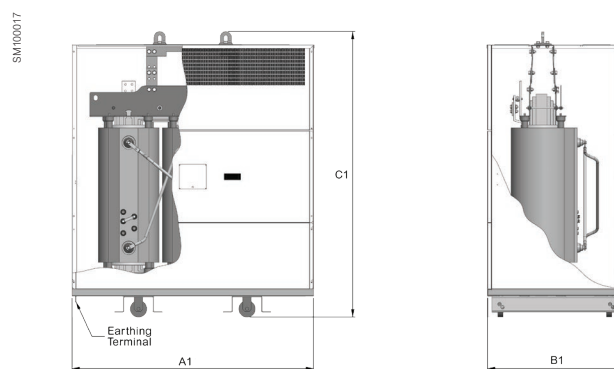
Power kVA	160	250	400	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	20 kV										
Secondary voltage	400 V between phases (at no load)										
HV insulation level	24 kV BIL 1 (95 / 50 kV)										
HV tapping range	+/- 2.5% and/or +/- 5%										
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)										
No-load losses (w)	360	468	675	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	4500	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):											
- power L _{WA}	53	56	59	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	46	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	400	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00												
Dimensions (mm)	A	1210	1300	1360	1430	1490	1560	1670	1750	1830	1910	2120
	B	950	950	950	950	950	950	950	950	950	1270	1270
	C	1310	1420	1540	1710	1830	1940	1910	2070	2180	2350	2500
	D	520	520	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		810	1090	1350	1760	2080	2470	2896	3570	4140	4930	6520
With IP31 metal enclosure												
Dimensions (mm)	A1	1640	1640	1840	1840	1840	2090	2090	2090	2340	2340	2440
	B1	1030	1030	1030	1030	1030	1180	1180	1180	1280	1280	1280
	C1	1900	1900	2150	2150	2150	2330	2330	2330	2700	2700	2800
Weight enclosure (kg)		150	150	170	170	170	220	220	220	270	270	285
Total weight (kg)		960	1240	1520	1930	2250	2690	3116	3790	4410	5200	6805

* Dimensions and weights without enclosure housing (IP00 & IP31)

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** Refer Page 4 Overview for more detail

Trihal - Cast Resin Transformer

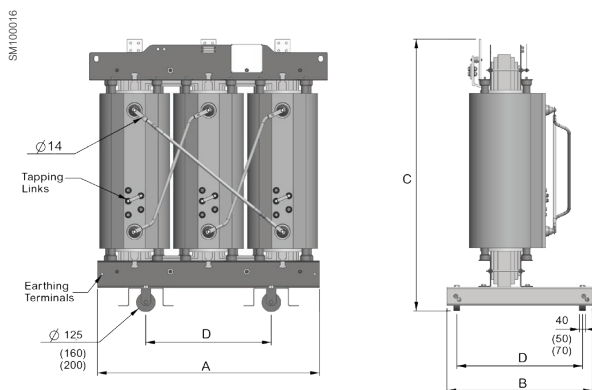
Up to 3150 kVA - 24 kV - C4 E4 F1 5pC** - BIL 2

Main electrical characteristics

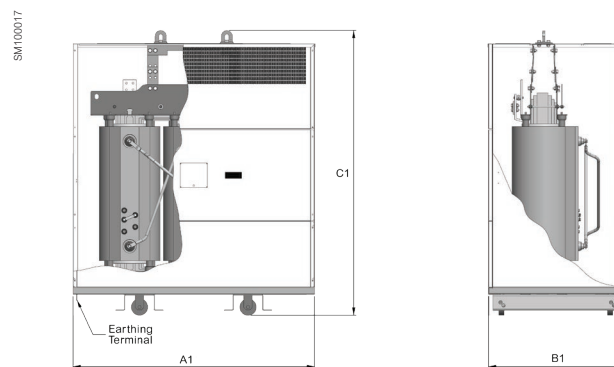
Power kVA	160	250	400	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	20 kV										
Secondary voltage	400 V between phases (at no load)										
HV insulation level	24 kV BIL 2 (125 / 50 kV)										
HV tapping range	+/- 2.5% and/or +/- 5%										
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)										
No-load losses (w)	360	468	675	990	1170	1395	1620	1980	2340	2790	3420
Load losses at 120°C (w)	2600	3400	4500	7100	8000	9000	11000	13000	16000	19000	22000
Impedance voltage (%)	6	6	6	6	6	6	6	6	6	6	6
Acoustic Level dB(A):											
- power L _{WA}	53	56	59	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	41	44	46	48	50	50	52	53	55	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	400	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00												
Dimensions (mm)	A	1260	1370	1410	1450	1570	1610	1720	1860	1920	2080	2220
	B	950	950	950	950	950	950	950	950	950	1270	1270
	C	1390	1520	1620	1790	1810	1970	2120	2120	2390	2320	2640
	D	520	520	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		890	1270	1500	1820	2280	2640	3240	3960	4860	5700	7160
With IP31 metal enclosure												
Dimensions (mm)	A1	1640	1840	1840	1840	2090	2090	2340	2340	2340	2440	2540
	B1	1030	1030	1030	1030	1180	1180	1280	1280	1280	1280	1280
	C1	1900	2150	2150	2150	2330	2330	2700	2700	2700	2700	2900
Weight enclosure (kg)		150	170	170	170	220	220	270	270	270	280	300
Total weight (kg)		1040	1440	1670	1990	2500	2860	3510	4230	5130	5980	7460

* Dimensions and weights without enclosure housing (IP00 & IP31)

Dimensions and weights are for guidance only and are NON CONTRACTUAL . Only the definitive drawings following from the order will commit us contractually.
For other voltages, impedance voltages and dual-voltages, weights and dimensions are different (consult us).

** Refer Page 4 Overview for more detail

Trihal - Cast Resin Transformer

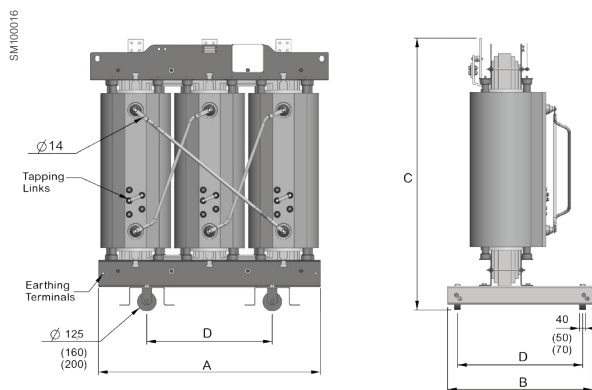
Up to 3150 kVA - 36kV - C4 E4 F1 5pC** - BIL 1

Main electrical characteristics

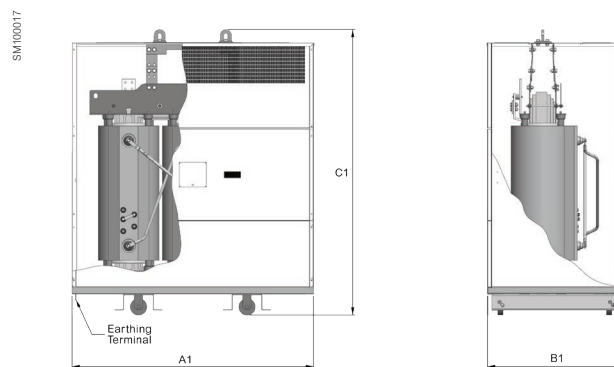
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	30 kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	36 kV BIL 1 (145 / 70 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	414	538	641	776	934	1139	1346	1604	1863	2277	2691	3209	3933
Load losses at 120°C (w)	2860	3740	4264	4950	6193	7810	8800	9900	12100	14300	17600	20900	24200
Impedance voltage (%)	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	40	43	45	46	47	47	49	50	52	53	54	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1470	1440	1440	1490	1470	1510	1590	1660	1720	1930	1970	2050	2290
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1710	1710	1730	1870	1890	1930	2080	2100	2270	2180	2370	2450	2530
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		1450	1450	1500	1720	1820	1980	2410	2800	3320	4110	4650	5510	7220
With IP31 metal enclosure														
Dimensions (mm)	A1	2090	2090	2090	2090	2090	2090	2090	2340	2340	2340	2340	2440	2700
	B1	1180	1180	1180	1180	1180	1180	1180	1280	1280	1280	1320	1320	1400
	C1	2330	2330	2330	2330	2330	2330	2330	2700	2700	2700	2600	2700	2800
Weight enclosure (kg)		220	220	220	220	220	220	220	270	270	270	270	280	320
Total weight (kg)		1670	1670	1720	1940	2040	2200	2630	3070	3590	4380	4920	5790	7540

* Dimensions and weights without enclosure housing (IP00 & IP31)

Dimensions and weights are for guidance only and are NON CONTRACTUAL. Only the definitive drawings following from the order will commit us contractually. For other voltages, impedance voltages and dual-voltages, weights and dimensions are different (consult us).

** Refer Page 4 Overview for more detail

Trihal - Cast Resin Transformer

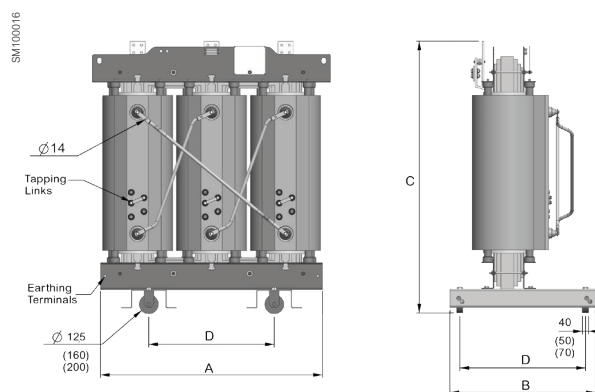
Up to 3150 kVA - 36kV - C4 E4 F1 5pC** - BIL 2

Main electrical characteristics

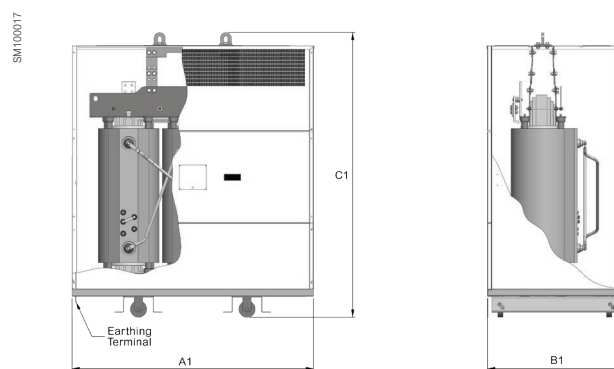
Power kVA	160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Primary voltage	30 kV												
Secondary voltage	400 V between phases (at no load)												
HV insulation level	36 kV BIL 2 (170 / 70 kV)												
HV tapping range	+/- 2.5% and/or +/- 5%												
Vector group	Dyn 11, Dyn 5, Dyn 1 (other vector groups upon request)												
No-load losses (w)	414	538	641	776	934	1139	1346	1604	1863	2277	2691	3209	3933
Load losses at 120°C (w)	2860	3740	4264	4950	6193	7810	8800	9900	12100	14300	17600	20900	24200
Impedance voltage (%)	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Acoustic Level dB(A):													
- power L _{WA}	53	56	58	59	60	61	63	64	66	67	69	70	73
- pressure L _{PA} (1m)	40	43	45	46	47	47	49	50	52	53	54	55	58

Dimensions* and weights

Without enclosure (IP00)



With IP31 metal enclosure



Rated power (kVA)		160	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
Without enclosure IP00														
Dimensions (mm)	A	1550	1520	1520	1540	1560	1560	1670	1720	1780	1900	1970	2310	2280
	B	950	950	950	950	950	950	950	950	950	950	950	1270	1270
	C	1790	1810	1810	1970	1970	1990	2160	2180	2350	2440	2560	2670	2610
	D	520	520	670	670	670	670	670	820	820	820	820/1070	820/1070	1070
Total weight (kg)		1600	1660	1720	1890	2000	2080	2690	2920	3560	4280	4940	7450	7840
With IP31 metal enclosure														
Dimensions (mm)	A1	2090	2090	2090	2090	2090	2090	2340	2340	2340	2340	2340	2670	2670
	B1	1180	1180	1180	1180	1180	1180	1280	1280	1280	1280	1320	1320	1320
	C1	2330	2330	2330	2330	2330	2330	2700	2700	2700	2700	2800	2900	2900
Weight enclosure (kg)		220	220	220	220	220	220	270	270	270	270	280	330	330
Total weight (kg)		1820	1880	1940	2110	2220	2300	2960	3190	3830	4550	5220	7780	8170

* Dimensions and weights without enclosure housing (IP00 & IP31)

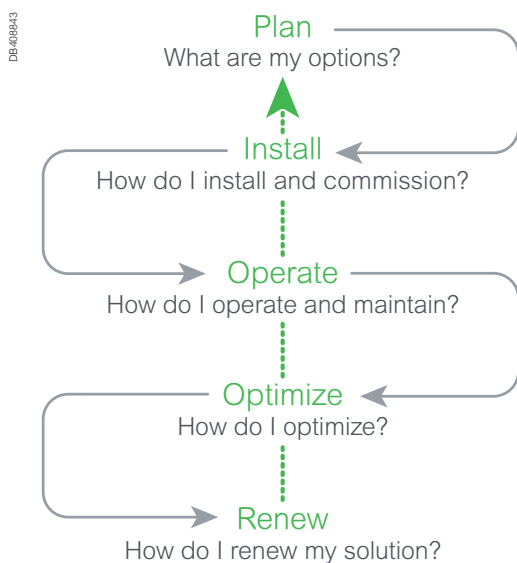
Dimensions and weights are for guidance only and are NON CONTRACTUAL. Only the definitive drawings following from the order will commit us contractually. For other voltages, impedance voltages and dual-voltages, weights and dimensions are different (consult us).

** Refer Page 4 Overview for more detail

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