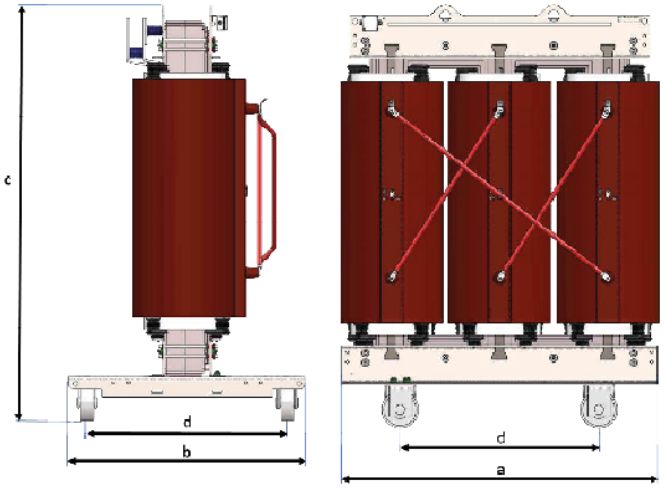
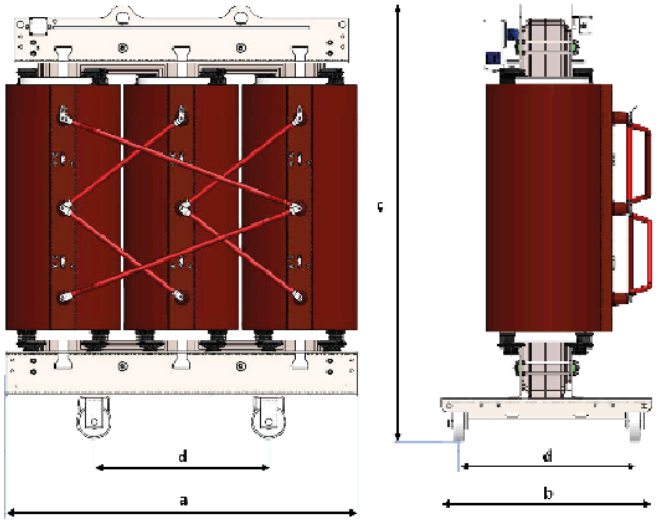
UNITRAFO

Cast Resin Transformers
MiljöCompact® Voltage Class 12 kV

Standards	IEC 60076 - EN 50588 - EU 548/2014
Insulating Class (Temperature Rise)	F (100 K)
Insulation Class MV	12 kV FI 28 kV BIL 75 kV
Insulation Class LV	1,1 kV FI 3 kV
Frequency	50 Hz
Tappings MV	± 2 x 2,5%
Tolerance	IEC tolerance



400-800 kVA



1000-2500 kVA

Power kVA	Uk * %	P_0* W	P_k* W	LwA dB(A)	LpA dB(A)	A mm	B mm	C mm	D mm	Wheel mm	Weight Kg
400	6	675	4500	50	46	1100	820	1350	670	670	1300
500	6	810	5630	59	46	1160	820	1400	670	670	1500
630	6	990	7100	61	48	1220	820	1400	670	670	1600
800	6	1170	8000	63	50	1300	980	1500	670	670	1950
1000	6	1395	9000	64	51	1380	980	1600	820	820	2350
1250	6	1620	11000	66	53	1440	980	1700	820	820	2750
1600	6	1980	13000	67	54	1560	980	1800	820	820	3500
2000	6	2340	16000	69	56	1600	1270	2150	1070	1070	4300
2500	6	2790	19000	70	57	1680	1270	2350	1070	1070	5100

* Data referred to 120°C at rated voltage
Po = Non load losses | Pk = Load losses | Ptot (Po+Pk) = Total losses

N.B. Dimensions and weights are preliminary and will be confirmed upon order

11/26_Datablad_DTTHCZ2N_12kV

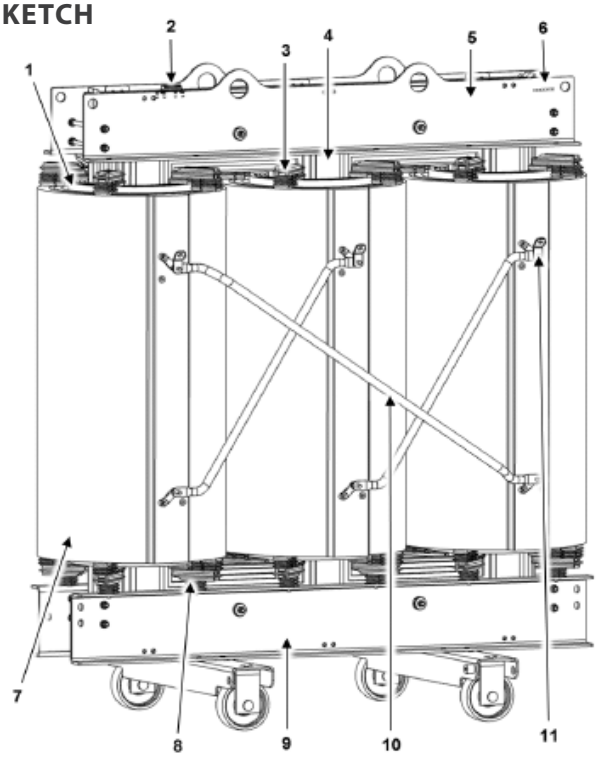
Unitrafo Electric AB | Hulda Mellgrens gata 2 | SE-421 32 Västra Frölunda | +46 31 68 56 20 | unitrafo.se

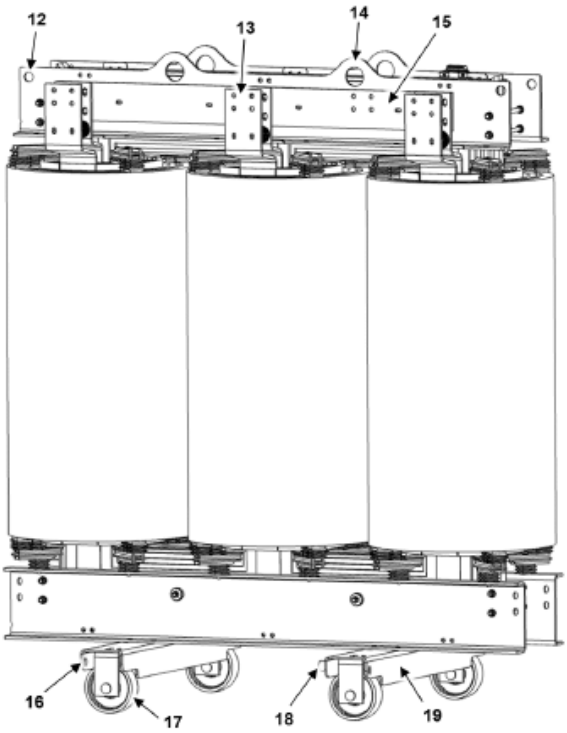
Standard equipment

- Terminal board for voltage regulation of ± 2x2,5% (Disconnected transformer)
- High Voltage output insulator
- HV connections (flags)
- LV connections plate in aluminum
- Earthing link
- Thermometer with 2 changeover contacts, type JUMO
- Lugs/eyebolts for lifting or horizontal movement
- Trucks (2 pcs) with orthogonal swivelling revolving wheels (4 pcs)
- Ratingplates in accordance with IEC 60076 (2 pcs, whereof one is delivered unmounted)
- Standard testing, including relevant test certificate
- Documentation as digital files

CAST RESIN TRANSFORMER – PRINCIPLE SKETCH

1 Low-voltage winding
2 Terminal strip for connection of temperature monitoring device
3 Upper supporting blocks
4 Core
5 Upper yoke beam
6 Rating plate
7 High-voltage winding
8 Lower supporting blocks
9 Lower yoke beam
10 Circuit connection
11 High-voltage terminal
12 Tie-down rings for transport
13 Low-voltage terminal
14 Lifting luggs
15 Neutral bar (N terminal)
16 Towing eyelets for longitudinal or transverse directions
17 Wheels, can be installed for moving in either longitudinal or transverse directions
18 Earthing terminal
19 Carriage





Options

As an alternative option we can adapt our transformers for your specific needs. For instance we can offer you transformers with extra low losses, windings in copper for special applications, alternative temperature rise and class, double primary- or secondary voltage, alternative frequencies, terminals located in the bottom part and vector groups as desired. Below you can see some of the options we offer.

TEMPERATURE SUPERVISION

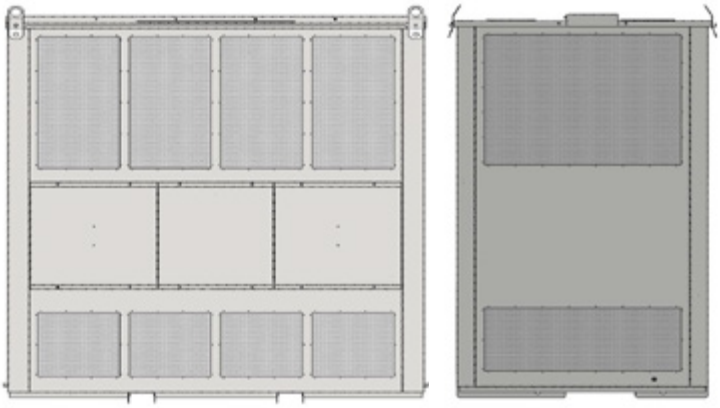
ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
2	Digital thermo instrument with 3 contacts for PT100, T154 Tecsystem	7	PT-100-sensor, 3 pcs incl. mounting
3	Temperature relay for PTC-termistors, T119 Tecsystem	10	Thermometer with 2 changeover contacts, type JUMO
4	Digital thermo instrument for PT100 with analogue output 4-20 mA or seriel 485-connection or modbus, NT935 Tecsystem	10-P	Temperature transmitter incl. program display, with analouge output 4-20 mA for PT100-sensor

ADDITIONAL ACCESSORIES

ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
33	Complete fan cooling for forced cooling (power increase +30%) including digital temperature instrument T154 and protective relay for fan engines VRT200 (pos 2+36.2). Up to 2500 kVA	42	Electrostatic screen between primary and secondary voltage, max 1,1 kV
36.2	Protective relay for fan engine VRT200 for panel mounting. (N.B. included in the package above)	43	Housing protection - plexiglass
38	Antivibration pads, set of 4 pcs/ transformer	43.1	Plexiglass protection for tappings
40	Earthing bolts for HV- or LV-side (Ø 25 mm)	44	Cupal plates
40 A	Earthing device for temporary earthing (type Pfistere), operating pole, wall holder and threaded screw (M12) for earthing connection.	58	Low placed secondary voltage connections
40 B	Earthing switch, type ABB, EB12/24, HV-side. Complete with auxiliary contacts, blocking coil and operating handle		

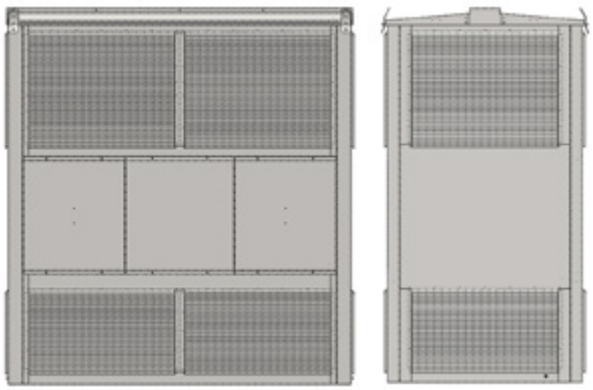
ENCLOSURES

For IP21 & IP31 – chassi or floor mounted



front gable

IP23 & IP33 – chassi or floor mounted



front gable