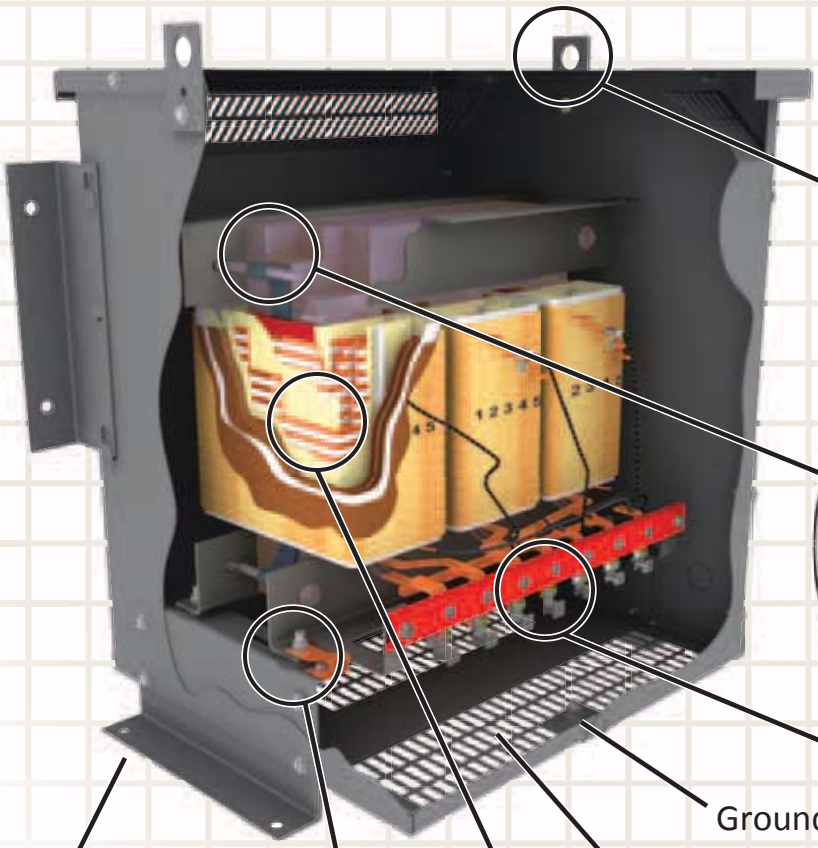
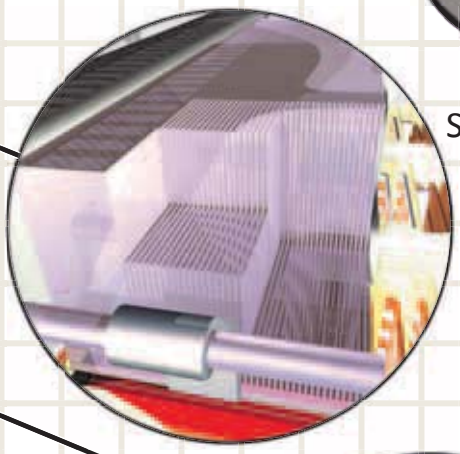
STANDARD SPECIFICATION, 600 V CLASS, SINGLE AND THREE PHASE



ASA 61 powder coated enclosure suitable for NEMA 1, 2, and 3R applications

Lifting eyes

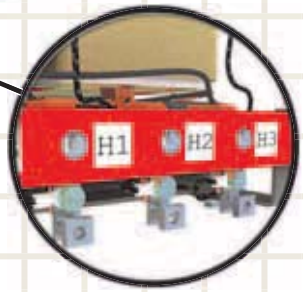


Stacked silicon steel core

Floor mounting brackets

Concealed ventilation openings

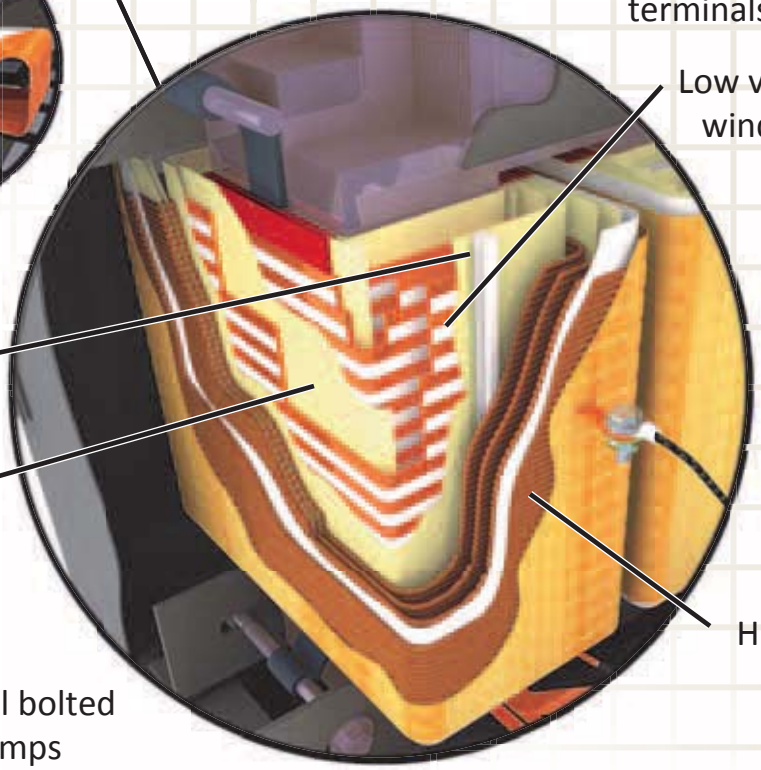
Ground lug



Compression type terminals Al/Cu

Ground Strap

Anti-vibration isolators



Low voltage windings

Cooling ducts

High temperature insulation
Optional electrostatic shield

High voltage windings

Heavy steel bolted core clamps

SINGLE-PHASE ISOLATION (DOUBLE-WOUND) TRANSFORMERS

APPLICATION

Isolation transformers should be used on all systems that require grounding on the load.

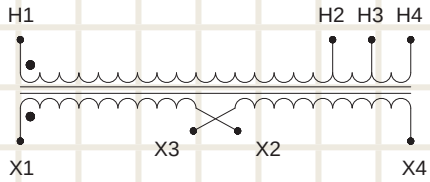
Rex single-phase distribution transformers are ideal for supplying auxiliary lighting circuits from 600 V and lower supplies, and electric heating equipment.

FEATURES

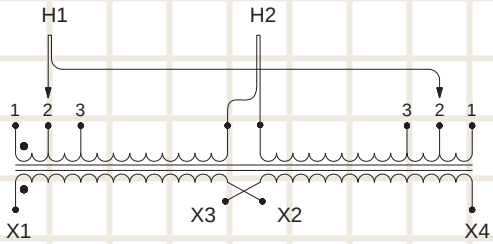
- General purpose ventilated steel enclosure suitable for indoor, dry locations. After fabrication, all metal is finished in ASA 61 grey power coating suitable for most industrial and commercial installations.
- Transformers up to 75 KVA capacity may be readily hung on H-columns, walls, shelves or floor mounted to suit each installation. Most units have lifting lugs, conduit Knock-Outs (Kos) and a removable front cover for convenient access to terminals.
- Transformers rated above 75 KVA are suitable for floor or platform mounting and complete with integral lifting lugs and removable front panels for convenient access to terminals.
- Transformers terminations rated below 330 Amps are supplied with suitable hardware and lugs for cable connection. Terminations above 330 Amps are supplied with terminal pads only.
- Primary windings have full capacity taps for supply voltage compensations and split secondaries for flexibility.
- Class 220 insulation used throughout.
- **CSA certified, File No. LR 34493**
- **UL listed, File No. E108255**

TYPICAL CONFIGURATIONS

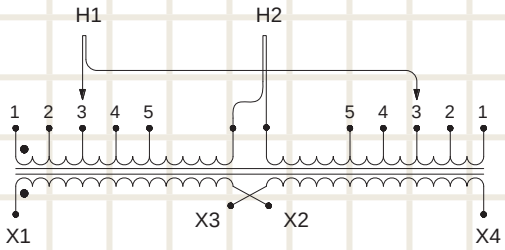
5 kVA



7.5 kVA



10 kVA and up



SC - Copper windings or
SA - Aluminum windings
See Catalogue Numbering System on page 1

VOLTAGE 600 - 120/240 480 - 120/240					
kVA	**Cat. No.**	**Cat. No**	**Taps**	**Encl. Size ***	**WT. (lb.)**
5	SC5J-K	SC5H-K	±1x5%	2	80
7.5	SC7J-K	SC7H-K	±1x5%	4	120
10	SC10J-K	SC10H-K	±2x2.5%	4	140
15	SC15J-K/Z	SC15H-K/Z	±2x2.5%	4	160
25	SC25J-K/Z	SC25H-K/Z	±2x2.5%	6	220
37.5	SC37.5J-K/Z	SC37.5H-K/Z	±2x2.5%	6	325
50	SC50J-K/Z	SC50H-K/Z	±2x2.5%	6	370
75	SC75J-K/Z	SC75H-K/Z	±2x2.5%	7	540
100	SC100J-K/Z	SC100H-K/Z	±2x2.5%	8	720
150	SC150J-K/Z	SC150H-K/Z	±2x2.5%	9	1050
167	SC167J-K/Z	SC167H-K/Z	±2x2.5%	9	1180
250	SC250J-K/Z	SC250H-K/Z	±2x2.5%	9	1370

* For enclosure dimensions refer to table on following page.

REX POWER MAGNETICS
A DIVISION OF TRANSFACTOR INDUSTRIES INC.
65 BASALTIC RD, CONCORD, ON, CA L4K 1G4
TEL: 905-695-8844 • FAX: 905-695-8855
WWW.REXPOWERMAGNETICS.COM

ENERGY EFFICIENT TRANSFORMER

-Single Phase Isolation
- Dry Type
- ANN Self Cooled

Preliminary Drawing ONLY

This drawing may NOT truly reflect our final design. Any resulting order(s) must be accompanied by or refer to this drawing and be marked with any proposed changes

Purchaser: TBA
PO#: TBA
SWO#: TBA
Qty: TBA

Coils:	Aluminum	
Cat. No.:	SA100J-K/Z	
kVA:	100	
Primary:	600	Volts
Secondary:	120/240	Volts
Primary Taps:	2.5	%
-Taps FCAN	2	
-Taps FCBN	2	
Frequency:	60	Hz
BIL:	10	kV
Insulation Class:	220º	C
Temperature Rise:	150º	C
Impedance:	4.0 - 5.5	%
Sound Level:	54	dB
Min.Efficiency:	98.6	%
-Calculated @ 35% Loaded		
Weight:	640	Lbs

Termination	Location	Lug Size For conductors
Primary:	Front	300MCM to 6 AWG 1/Ph
Secondary:	Front	Pads*
Pads per NEMA hole pattern		
Ground lug: (@ the base of the enclosure)		2/0 to 6 AWG

Wiring Connection:

Primary: H1 , H2

Voltage	% Tap	Jumpers To:
630	105.0	1 - 1
615	102.5	2 - 2
600	100.0	3 - 3
585	97.5	4 - 4
570	95.0	5 - 5

Secondary:

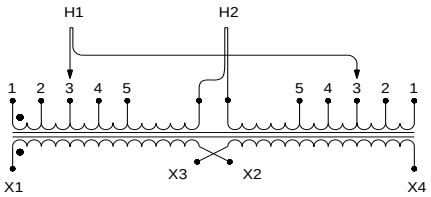
Voltage	Interconnect:	Connect Loads To:
240	X2 to X3	X1 - X4
120	X1 to X3 and X2 to X4	X1 - X4
120/240	X2 to X3	X1 - X2 - X4 (X2 is a Neutral)

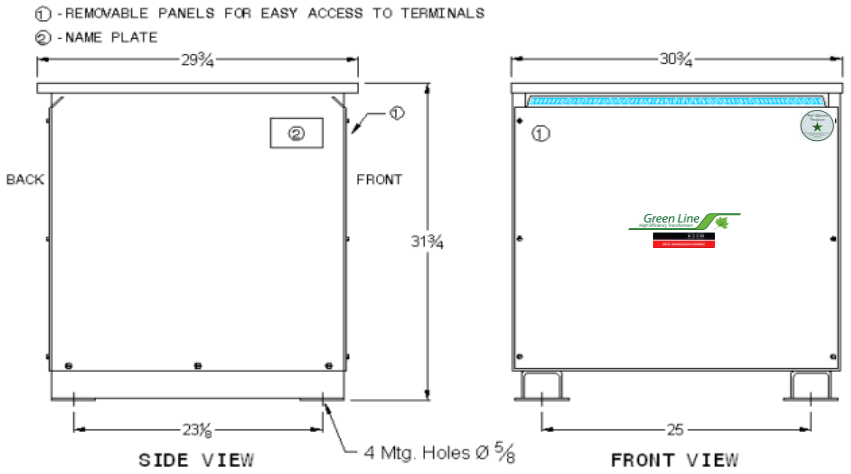
Standards:

1. CSA Certified - File No. LR34493
2. UL Listed - File No. E108255

Standard Features:

1) Anti-vibration pads installed between the enclosure base and the core & coil assembly
2) Ground lug provided
3) Transformer meets efficiency per CSA C802
4) Transformer meets NEMA TP-1 Efficiency Level
5) Seismic rated for USA zone 4 and Canada zone 6





CSA Enclosure:

1. Type 3R (NEMA 3R)
   - Sprinklerproof when the angle between sprinkler heads and opening in the enclosure does not exceed 45 degree from the vertical.
2. Ventilated
3. ASA 61 grey
4. Floor mounting

Rev.	Remarks	By	Appr. By	Date

Prepared by: AP
Approved by: VS
Date: AUG.2, 2013

F:\2017 Done\Finished Sets\SA...J-KZ.