Your contact:
+49-(0)2 12-88 04-0 • info@reo.de

# DRTEU

*Three-phase variable column-type transformers (auto windings, double-brush system)*



## Unique Selling Point

- Closely stepped adjusting of output voltages
- Low-loss cores
- Vacuum impregnated windings
- Windings virtually maintenance free
- UL-listed materials
- Available in IP 00 and IP 20
- Wide range of accessories

### Description

REO columns variable transformers with double brush system together with REO transformers are the perfect solution - the double performance is possible .

The waveform of the sine wave is preserved - like that, EMC problems cannot occur over the entire operating range of 0 - 1000A.
All products in the series come with UL - listed materials .

The REO construction enables easy handling of the carbon rolls and the spindle - the copper-bevel gear allows a hysteresis-free adjustment of the output voltage even at high adjustment speed of the drive motor. Thus REO variable column transformers are perfect for high performance adjustment .

REO-column type variable transformers conform to EN 61558-2-14

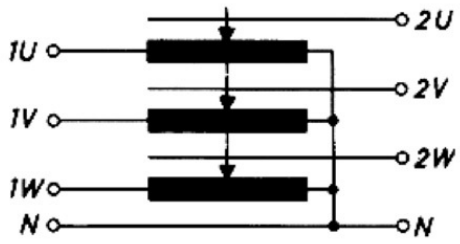
### Technical Data

- Input voltage : 400 V
- Output voltage : 400 V
- Output Current : 8,7 - 208 A

### Options

- Protection IP 20 - IP 54
- Motor drive, digital/analog
- Actuating speed 30 sek
- REO Power Former (Control unit for supplies)
- Versatile accessories : e.g. Motor control NLR 7000
- Compensation winding

### Circuit drawing

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Technical data

Star connected (Delta connection on request)

| kVA | 3 x A | Copper ca. kg | Tubes | Weight kg |
|---|---|---|---|---|
| 6,0 | 8,7 | 9,0 | 3 | 85 |
| 7,5 | 11,0 | 11,5 | 3 | 85 |
| 9,0 | 13,0 | 14,0 | 3 | 85 |
| 10,5 | 15,0 | 16,0 | 3 | 135 |
| 12,0 | 17,5 | 20,0 | 3 | 135 |
| 15,0 | 21,5 | 22,5 | 3 | 98 |
| 18,0 | 26,0 | 27,5 | 3 | 98 |
| 21,0 | 30,5 | 34,0 | 3 | 98 |
| 24,0 | 35,0 | 40,0 | 3 | 128 |
| 27,0 | 39,0 | 45,5 | 3 | 128 |
| 30,0 | 43,5 | 55,0 | 3 | 128 |
| 33,0 | 48,0 | 61,5 | 3 | 145 |
| 36,0 | 52,2 | 68,0 | 3 | 145 |
| 39,0 | 56,5 | 65,0 | 6 | 210 |
| 42,0 | 61,0 | 68,0 | 6 | 210 |
| 48,0 | 69,5 | 80,0 | 6 | 276 |
| 54,0 | 78,0 | 91,0 | 6 | 276 |
| 60,0 | 87,0 | 110,0 | 6 | 276 |
| 66,0 | 96,0 | 123,0 | 6 | 316 |
| 72,0 | 104,0 | 136,0 | 6 | 316 |
| 81,0 | 117,0 | 137,0 | 9 | 400 |
| 90,0 | 130,0 | 160,0 | 9 | 400 |
| 99,0 | 143,0 | 184,5 | 9 | 400 |
| 108,0 | 156,0 | 204,0 | 9 | 400 |
| 114,0 | 165,0 | 190,0 | 12 | 525 |
| 120,0 | 174,0 | 220,0 | 12 | 525 |
| 132,0 | 191,0 | 246,0 | 12 | 595 |
| 144,0 | 208,0 | 272,0 | 12 | 595 |

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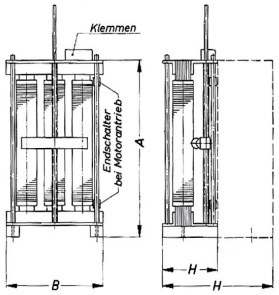
Dimensions




| kVA | A | B | H | Weight kg |
|---|---|---|---|---|
| 6,0 | 500 | 330 | 225 | 85 |
| 7,5 | 500 | 330 | 225 | 85 |
| 9,0 | 500 | 330 | 225 | 85 |
| 10,5 | 550 | 330 | 235 | 135 |
| 12,0 | 550 | 330 | 235 | 135 |
| 15,0 | 635 | 365 | 235 | 98 |
| 18,0 | 635 | 365 | 235 | 98 |
| 21,0 | 635 | 365 | 235 | 98 |
| 24,0 | 720 | 420 | 250 | 128 |
| 27,0 | 720 | 420 | 250 | 128 |
| 30,0 | 720 | 420 | 250 | 128 |
| 33,0 | 765 | 450 | 255 | 145 |
| 36,0 | 765 | 450 | 255 | 145 |
| 39,0 | 660 | 365 | 435 | 210 |
| 42,0 | 660 | 365 | 435 | 210 |
| 48,0 | 735 | 420 | 460 | 276 |
| 54,0 | 735 | 420 | 460 | 276 |
| 60,0 | 735 | 420 | 460 | 276 |
| 66,0 | 780 | 450 | 470 | 316 |
| 72,0 | 780 | 450 | 470 | 316 |
| 81,0 | 735 | 420 | 705 | 400 |
| 90,0 | 735 | 420 | 705 | 400 |
| 99,0 | 780 | 450 | 725 | 400 |
| 108,0 | 780 | 450 | 725 | 400 |
| 114,0 | 735 | 595 | 779 | 525 |
| 120,0 | 735 | 595 | 779 | 525 |
| 132,0 | 780 | 595 | 779 | 595 |
| 144,0 | 780 | 595 | 779 | 595 |

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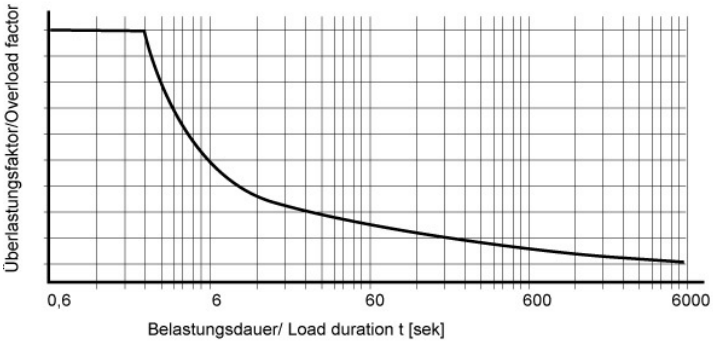
## Overload factor




Faktor kK relative to operation time t.

## Maintenance:

Contact carbon rolls are furnished with hard-silvered axes. Threaded spindles run in self-lubricating bearings and are almost maintenance-free.

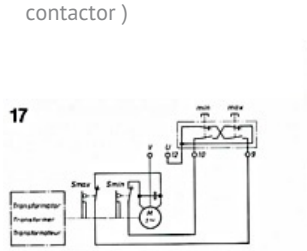
Seized or worn carbon rolls must be replaced immediately.

From time to time the contact surfaces of the windings should be cleaned with a stiff brush to remove adhered dirt (dust and carbon abrasion).

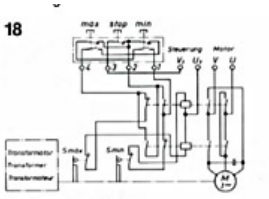
Maintenance manual on request.

## Accessories

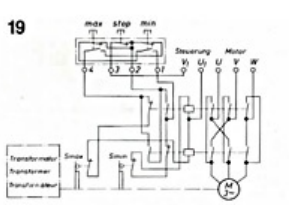
- Single or three phase asynchronous motor with anchor stop brake
- Motor protection switch
- different setting times ( only limited by gear changes possible ! )
- Slipping clutch at motor drive
- additional limit switches ( 1 SPDT ) , wired to terminals , when used in air
- additional limit switch ( max . 6 pieces)
- Mounting a 10 - Wendelpotentiometers
- ( 1 ohm , 2 ohm or 5 kOhm , eg for feedback of pantographs representation Wiring diagram 17 ( at Engine OMC)
- ( Single-phase Asynchronomotor with wired limit switch ) Wiring diagram 18 ( at Engine OMC)
- ( Single-phase induction motor with reversing contactor ) Wiring diagram 19 ( at Engine Mo ) ( three-phase asynchronous motor with reversing contactor )




Kondensatormotor, einpolig reversierbar.
Capacitor motor, unipolar reversible.
Moteur à condensateur réversible unipolaire.




Kondensatormotor,
mit Wendeschütz für Drehrichtungsumkehr.
Capacitor motor, including reversible
contactor for reverse of direction of rotation.
Moteur à condensateur, y compris
contacteur-inverseur de sens de marche.




Drehstrommotor mit Wendeschütz
für Drehrichtungsumkehr.
Three-phase motor, including reversible
contactor for reverse of direction of rotation.
Moteur triphase commandé par relais.