



GJUTHARTSTRANSFORMATORER
DREHSTROM - GIESSHARZTRANSFORMATOREN
CAST - RESIN TRANSFORMERS

TTR-A AoAk ECO+P 12KV 50Hz
UE 548/2014

Isolationsnivå
Referenz-Spannung 7,2/20/60 kV; 12/28/75 kV
Insulation level

Sekundärspänning (i tomgång)
Sekundärspänning im Leerlauf
No-load secondary voltage (off load) 415 ± 433 V (*)

Reglerområde
MS - Anzapfungen
Tappings $\pm 2 \times 2,5 \%$

Vektorgrupp
Schaltgruppe
Vector group Dyn11, Dyn5(*)

| Sn | kVA | 50 | 50 | 100 | 100 | 160 | 160 | 200 | 200 | 250 | 250 | 315 | 315 | 400 | 400 | 500 | 500 | 630 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Po | W | 200 | 200 | 280 | 280 | 400 | 400 | 455 | 455 | 520 | 520 | 620 | 620 | 750 | 750 | 900 | 900 | 1100 |
| Pcc (75° C) | W | 1350 | 1350 | 1650 | 1650 | 2350 | 2350 | 2650 | 2650 | 3050 | 3050 | 3500 | 3500 | 4050 | 4050 | 5050 | 5050 | 6350 |
| Pcc (120° C) | W | 1500 | 1500 | 1800 | 1800 | 2600 | 2600 | 2955 | 2955 | 3400 | 3400 | 3875 | 3875 | 4500 | 4500 | 5630 | 5630 | 7100 |
| Vcc (75° C) | % | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 |
| Io (75° C) | % | 2,5 | 2,5 | 2 | 2 | 1,7 | 1,7 | 1,5 | 1,5 | 1,3 | 1,3 | 1,2 | 1,2 | 1,1 | 1,1 | 1 | 1 | 0,9 |
| Lwa | dB(A) | 50 | 50 | 51 | 51 | 54 | 54 | 55 | 55 | 57 | 57 | 58 | 58 | 60 | 60 | 61 | 61 | 62 |
| Lpa (1mt) | dB(A) | 41 | 41 | 42 | 42 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 49 | 49 | 50 | 50 | 51 |
| n | 4/4 % | 96,99 | 96,99 | 98,11 | 98,11 | 98,31 | 98,31 | 98,47 | 98,47 | 98,59 | 98,59 | 98,71 | 98,71 | 98,81 | 98,81 | 98,82 | 98,82 | 98,83 |
| cos Ø = 1 | 3/4 % | 97,51 | 97,51 | 98,41 | 98,41 | 98,59 | 98,59 | 98,72 | 98,72 | 98,82 | 98,82 | 98,92 | 98,92 | 99 | 99 | 99,01 | 99,01 | 99,02 |
| 75° C | 2/4 % | 97,9 | 97,9 | 98,63 | 98,63 | 98,78 | 98,78 | 98,89 | 98,89 | 98,98 | 98,98 | 99,06 | 99,06 | 99,13 | 99,13 | 99,14 | 99,14 | 99,15 |
| n | 4/4 % | 96,67 | 96,67 | 97,9 | 97,9 | 98,13 | 98,13 | 98,3 | 98,3 | 98,44 | 98,44 | 98,57 | 98,57 | 98,68 | 98,68 | 98,7 | 98,7 | 98,7 |
| cos Ø = 0.9 | 3/4 % | 97,24 | 97,24 | 98,24 | 98,24 | 98,43 | 98,43 | 98,58 | 98,58 | 98,69 | 98,69 | 98,8 | 98,8 | 98,89 | 98,89 | 98,9 | 98,9 | 98,91 |
| 75° C | 2/4 % | 97,67 | 97,67 | 98,48 | 98,48 | 98,65 | 98,65 | 98,77 | 98,77 | 98,87 | 98,87 | 98,96 | 98,96 | 99,03 | 99,03 | 99,05 | 99,05 | 99,06 |
| n | 4/4 % | 96,27 | 96,27 | 97,64 | 97,64 | 97,9 | 97,9 | 98,1 | 98,1 | 98,25 | 98,25 | 98,39 | 98,39 | 98,52 | 98,52 | 98,53 | 98,53 | 98,54 |
| cos Ø = 0.8 | 3/4 % | 96,9 | 96,9 | 98,03 | 98,03 | 98,24 | 98,24 | 98,4 | 98,4 | 98,53 | 98,53 | 98,65 | 98,65 | 98,75 | 98,75 | 98,77 | 98,77 | 98,78 |
| 75° C | 2/4 % | 97,38 | 97,38 | 98,3 | 98,3 | 98,48 | 98,48 | 98,62 | 98,62 | 98,73 | 98,73 | 98,83 | 98,83 | 98,91 | 98,91 | 98,93 | 98,93 | 98,94 |
| le/In | | 14,5 | 12 | 14,5 | 12 | 14 | 11,5 | 14 | 11,5 | 13,5 | 11 | 13,5 | 11 | 13 | 10,5 | 13 | 10,5 | 12,5 |
| T | sec. | 0,07 | 0,07 | 0,08 | 0,08 | 0,09 | 0,09 | 0,1 | 0,1 | 0,11 | 0,11 | 0,12 | 0,12 | 0,13 | 0,13 | 0,14 | 0,14 | 0,15 |
| In sec. | A | 72 | 72 | 144 | 144 | 231 | 231 | 289 | 289 | 361 | 361 | 455 | 455 | 577 | 577 | 722 | 722 | 909 |
| Icc | A | 1800 | 1200 | 3600 | 2400 | 5775 | 3850 | 7225 | 4817 | 9025 | 6017 | 11375 | 7583 | 14425 | 9617 | 18050 | 12033 | 22725 |
| RI (75° C) | % | 2,7 | 2,7 | 1,65 | 1,65 | 1,47 | 1,47 | 1,33 | 1,33 | 1,22 | 1,22 | 1,11 | 1,11 | 1,01 | 1,01 | 1,01 | 1,01 | 1,01 |
| XI | % | 2,95 | 5,36 | 3,64 | 5,77 | 3,72 | 5,82 | 3,77 | 5,85 | 3,81 | 5,87 | 3,84 | 5,9 | 3,87 | 5,91 | 3,87 | 5,91 | 3,87 |
| DV cos Ø = 1 | 4/4 % | 2,74 | 2,84 | 1,72 | 1,82 | 1,54 | 1,64 | 1,4 | 1,5 | 1,29 | 1,39 | 1,18 | 1,28 | 1,09 | 1,19 | 1,08 | 1,18 | 1,08 |
| DV cos Ø = 0.9 | 4/4 % | 3,73 | 4,83 | 3,11 | 4,1 | 2,98 | 3,96 | 2,88 | 3,85 | 2,8 | 3,77 | 2,72 | 3,69 | 2,64 | 3,61 | 2,64 | 3,61 | 2,64 |
| DV cos Ø = 0.8 | 4/4 % | 3,93 | 5,41 | 3,52 | 4,85 | 3,43 | 4,74 | 3,35 | 4,65 | 3,29 | 4,58 | 3,22 | 4,51 | 3,16 | 4,44 | 3,16 | 4,44 | 3,16 |
| Qo | KVAR | 1,1 | 1,1 | 1,8 | 1,8 | 2,5 | 2,5 | 2,7 | 2,7 | 3 | 3 | 3,4 | 3,4 | 4 | 4 | 4,5 | 4,5 | 5 |
| Qf | KVAR | 0,8 | 2 | 2,8 | 5 | 4,8 | 8,2 | 6,2 | 10,4 | 8 | 13,2 | 10,4 | 16,9 | 13,6 | 21,8 | 16,9 | 27,1 | 21,3 |

Index

P = Effekt
Po = Tomgångsförluster
Pk = Belastningsförluster
Vcc = Kortslutningsspänning
Io = Tomgångsström
Lwa = Ljudeffektnivå
Lpa = Ljudtrycknivå
h = Verkningsgrad
le/In = Inkopplingsström
T = Tidskonstantlängd
In II° = Sekundärström
Icc = Kortslutningsström
RI = Aktiv komponent Vcc
XI = Reaktiv komponent Vcc
DV = Spänningsfall
Qo = Reaktiv effekt i tomgång
Qf = Reaktiv effekt vid full last
Pt = Vikt transformator
Pa = Vikt kapsling
P BT = Maximal ström för Lsp uttag
P MT = Maximal ström för Hsp uttag

Alla tekniska data är refererade till trefas distributionstransformatorer, med frekvens 50 Hz och omgivningstemperatur 40 °C.

Konstruktion enligt standard IEC60076

Tekniska data är offererade med reservation att ändringar kan ske utan att meddelande sker i förväg

Legende

Sn = Nennleistung
Po = Leerlaufverlusten
Pcc = Kurschlußverlusten
Vcc = Kurschlußspannung
Io = Leerlaufstrom
Lwa = Schalleistungspegel
Lpa = Schalldruckpegel
η = Wirkungsgrad
le/In = Einschaltstrom
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In sec. = Strom
Icc = Kurzschluss - Strom
RI = Wirkleistungsanteil der uk
XI = Blindleistungsanteil der uk
DV = Spannungsabfall
Qo = Kompensation im Leerlauf
Qf = Kompensation unter Last
Pt = Gewicht Transformator
Pa = Gewicht Schutzgehäuse
P BT = US Stromfähigkeit
P MT = OS Stromfähigkeit

Die auf diesem Katalog angegebenen Technischen Daten beziehen sich auf Drehstrom Verteilungstransformatoren mit einer Frequenz von 50 Hz und Umgebungstemperatur von 40° C.

Fertigung gemäß IEC60076 Standard. Die technischen Daten sind nicht bindend; diese können ohne Mitteilung verändert werden.

(*) nach Anfrage

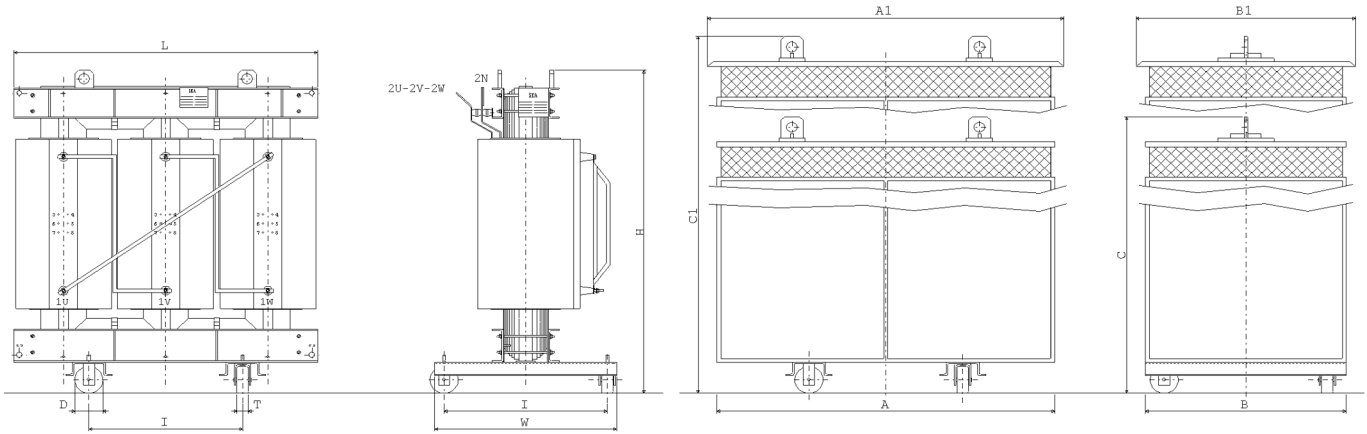
Legend

Sn = Rating capacity
Po = No - load losses
Pcc = Load losses
Vcc = Impedance voltage
Io = No - load current
Lwa = Sound power level
Lpa = Sound pressure level
η = Efficiency
le/In = In - rush current
T = Time constant le/In
In sec. = Secondary side current
Icc = Short circuit current
RI = Active part of Vcc
XI = Reactive part of Vcc
DV = Voltage drop
Qo = No - load reactive power
Qf = Full load reactive power
Pt = Weight transformer
Pa = Weight enclosure
P BT = LV terminals max current
P MT = MT terminals max current

All the technical characteristics given in this catalogue are referred to threephase distribution transformers, with frequency of 50 Hz and ambient temperature of 40° C.

Construction according to IEC60076 Std. Characteristics and technical data are quoted without commitment; modifications reserved without prior notice.

(*) On request



| | | | | | | | | | | | | | | | | | | |
|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Sn | kVA | 50 | 50 | 100 | 100 | 160 | 160 | 200 | 200 | 250 | 250 | 315 | 315 | 400 | 400 | 500 | 500 | 630 |
|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Transformator IP 00 - Transformator IP00 - Transformer IP00

| | | | | | | | | | | | | | | | | | | |
|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | mm | 1110 | 1110 | 1250 | 1250 | 1280 | 1280 | 1340 | 1340 | 1370 | 1370 | 1450 | 1450 | 1490 | 1490 | 1520 | 1520 | 1580 |
| W | mm | 595 | 600 | 660 | 660 | 670 | 670 | 680 | 680 | 690 | 690 | 780 | 780 | 790 | 790 | 790 | 790 | 800 |
| H | mm | 1210 | 1210 | 1250 | 1250 | 1280 | 1280 | 1350 | 1350 | 1400 | 1400 | 1480 | 1480 | 1530 | 1530 | 1620 | 1620 | 1700 |
| TW | kg | 690 | 630 | 750 | 700 | 880 | 810 | 1000 | 930 | 1120 | 1090 | 1420 | 1280 | 1560 | 1510 | 1770 | 1680 | 2000 |

Kapsling IP20 / IP21 / IP31 - Schutzgehäuse IP20 / IP21 / IP31 - Enclosure IP20 / IP21 / IP31

| | | | | | | | | | | | | | | | | | | |
|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| A | mm | 1550 | 1550 | 1550 | 1550 | 1550 | 1550 | 1550 | 1550 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1950 | 1950 | 1950 |
| B | mm | 895 | 895 | 895 | 895 | 895 | 895 | 895 | 895 | 995 | 995 | 995 | 995 | 995 | 995 | 1195 | 1195 | 1195 |
| C | mm | 1610 | 1610 | 1630 | 1630 | 1630 | 1630 | 1630 | 1630 | 1980 | 1980 | 1980 | 1980 | 1980 | 1980 | 2200 | 2200 | 2200 |
| Pa | kg | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 300 | 300 | 300 | 300 | 300 | 400 | 400 | 400 |

Kapsling IP23 / IP33 - Schutzgehäuse IP23 / IP33 - Enclosure IP23 / IP33

| | | | | | | | | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| A1 | mm | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 2030 | 2030 | 2030 | 2030 | 2030 | 2030 | 2230 | 2230 | 2230 |
| B1 | mm | 1180 | 1180 | 1180 | 1180 | 1180 | 1180 | 1180 | 1180 | 1280 | 1280 | 1280 | 1280 | 1280 | 1280 | 1480 | 1480 | 1480 |
| C1 | mm | 1510 | 1510 | 1530 | 1530 | 1530 | 1530 | 1530 | 1530 | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 | 2100 | 2100 | 2100 |
| Pa1 | kg | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 300 | 300 | 300 | 300 | 300 | 400 | 400 | 400 |

Allmänna data - Allgemeine Daten - Common Data

| | | | | | | | | | | | | | | | | | | |
|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| I | mm | 420 | 420 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 670 | 670 | 670 | 670 | 670 | 670 | 670 |
| D | mm | 100 | 100 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 |
| T | mm | 35 | 35 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |

Terminaler - Anschlüssen - Terminals

| | | | | | | | | | | | | | | | | | | |
|----------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| P BT | A | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 750 | 750 | 750 | 750 | 750 | 750 | 1000 |
| P MT | A | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| P Neutro | A | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 750 | 750 | 750 | 750 | 750 | 750 | 1000 |

Terminali BT - Terminals LV - Bornes BT - OS Anschlüssen
Fig. 1

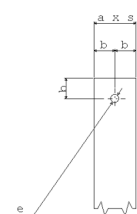


Fig. 2

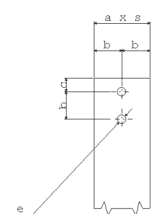
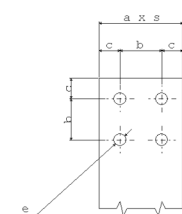
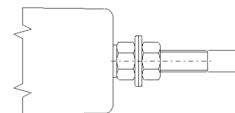


Fig. 3



Terminali MT - Terminals HV - Bornes HT - NS Anschlüssen
Fig. 4



| | | | | | | | | | | | | | | | | | | |
|------|----|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|--|--|--|--|
| P BT | A | 500 | 750 | 1000 | 1300 | 1600 | 2000 | 2500 | 3100 | 3800 | 4600 | | | | | | | |
| P MT | A | | | | | | | | | | | 250 | 400 | 630 | | | | |
| Fig. | | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | | | | |
| a | mm | 40 | 60 | 80 | 80 | 100 | 100 | 120 | 120 | 120 | 140 | - | - | - | | | | |
| s | mm | 5 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 15 | 15 | - | - | - | | | | |
| b | mm | 20 | 30 | 40 | 40 | 50 | 50 | 60 | 60 | 60 | 70 | - | - | - | | | | |
| c | mm | - | - | 20 | 20 | 25 | 25 | 30 | 30 | 30 | 35 | - | - | - | | | | |
| e | mm | 13 | 13 | 13 | 13 | 18 | 18 | 18 | 18 | 18 | 18 | - | - | - | | | | |
| M | | - | - | - | - | - | - | - | - | - | - | 12 | 16 | 20 | | | | |



GJUTHARTSTRANSFORMATORER
DREHSTROM - GIESSHARZTRANSFORMATOREN
CAST - RESIN TRANSFORMERS

TTR-A AoAk ECO+P 12KV 50Hz
UE 548/2014

Isolationsnivå
Referenz-Spannung 7,2/20/60 kV; 12/28/75 kV
Insulation level

Sekundärspänning (i tomgång)
Sekundärspänning im Leerlauf
No-load secondary voltage (off load) U_{15} 400 V
 $U_{15} = 433$ V (*)

Reglerområde
MS - Anzapfungen
Tappings $\pm 2 \times 2,5 \%$

Vektorgrupp
Schaltgruppe
Vector group Dyn11, Dyn5(*)

| Sn | kVA | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| Po | W | 1100 | 1300 | 1550 | 1800 | 2200 | 2600 | 3100 | 3800 | | | | | | | | | |
| Pcc (75° C) | W | 6350 | 7150 | 8050 | 9850 | 11650 | 14300 | 17000 | 19650 | | | | | | | | | |
| Pcc (120° C) | W | 7100 | 8000 | 9000 | 11000 | 13000 | 16000 | 19000 | 22000 | | | | | | | | | |
| Vcc (75° C) | % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | | | |
| Io (75° C) | % | 0,9 | 0,8 | 0,7 | 0,65 | 0,6 | 0,55 | 0,5 | 0,45 | | | | | | | | | |
| Lwa | dB(A) | 62 | 64 | 65 | 67 | 68 | 70 | 71 | 74 | | | | | | | | | |
| Lpa (1mt) | dB(A) | 51 | 52 | 53 | 55 | 56 | 57 | 58 | 61 | | | | | | | | | |
| n | 4/4 % | 98,83 | 98,95 | 99,05 | 99,08 | 99,14 | 99,16 | 99,2 | 99,26 | | | | | | | | | |
| cos Ø = 1 | 3/4 % | 99,02 | 99,12 | 99,2 | 99,22 | 99,28 | 99,3 | 99,33 | 99,38 | | | | | | | | | |
| 75° C | 2/4 % | 99,15 | 99,23 | 99,29 | 99,32 | 99,36 | 99,39 | 99,42 | 99,45 | | | | | | | | | |
| n | 4/4 % | 98,7 | 98,84 | 98,94 | 98,98 | 99,05 | 99,07 | 99,11 | 99,18 | | | | | | | | | |
| cos Ø = 0.9 | 3/4 % | 98,91 | 99,02 | 99,11 | 99,14 | 99,2 | 99,22 | 99,26 | 99,31 | | | | | | | | | |
| 75° C | 2/4 % | 99,06 | 99,15 | 99,21 | 99,25 | 99,29 | 99,32 | 99,35 | 99,39 | | | | | | | | | |
| n | 4/4 % | 98,54 | 98,7 | 98,81 | 98,85 | 98,93 | 98,95 | 99 | 99,08 | | | | | | | | | |
| cos Ø = 0.8 | 3/4 % | 98,78 | 98,9 | 99 | 99,03 | 99,1 | 99,12 | 99,16 | 99,22 | | | | | | | | | |
| 75° C | 2/4 % | 98,94 | 99,04 | 99,12 | 99,15 | 99,21 | 99,23 | 99,27 | 99,31 | | | | | | | | | |
| le/In | | 10 | 9,5 | 9,5 | 9 | 9 | 8,5 | 8,5 | 8 | | | | | | | | | |
| T | sec. | 0,15 | 0,16 | 0,18 | 0,2 | 0,25 | 0,3 | 0,35 | 0,4 | | | | | | | | | |
| In sec. | A | 909 | 1155 | 1443 | 1804 | 2309 | 2887 | 3608 | 4547 | | | | | | | | | |
| Icc | A | 15150 | 19250 | 24050 | 30067 | 38483 | 48117 | 60133 | 75783 | | | | | | | | | |
| RI (75° C) | % | 1,01 | 0,89 | 0,8 | 0,79 | 0,73 | 0,72 | 0,68 | 0,62 | | | | | | | | | |
| XI | % | 5,91 | 5,93 | 5,95 | 5,95 | 5,96 | 5,96 | 5,96 | 5,97 | | | | | | | | | |
| DV cos Ø = 1 | 4/4 % | 1,18 | 1,07 | 0,98 | 0,96 | 0,91 | 0,89 | 0,86 | 0,8 | | | | | | | | | |
| DV cos Ø = 0.9 | 4/4 % | 3,6 | 3,51 | 3,44 | 3,43 | 3,38 | 3,37 | 3,34 | 3,29 | | | | | | | | | |
| DV cos Ø = 0.8 | 4/4 % | 4,44 | 4,36 | 4,3 | 4,29 | 4,25 | 4,24 | 4,22 | 4,18 | | | | | | | | | |
| Qo | KVAR | 5 | 5,6 | 6,1 | 7,1 | 8,3 | 9,4 | 10,6 | 11,8 | | | | | | | | | |
| Qf | KVAR | 34,1 | 44,2 | 55,9 | 69,4 | 89,4 | 111,4 | 140,8 | 179,6 | | | | | | | | | |

Index

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Po = Tomgångsförluster
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P MT = Maximal ström för Hsp uttag

Alla tekniska data är refererade till trefas distributionstransformatorer, med frekvens 50 Hz och omgivningstemperatur 40 °C.

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Fertigung gemäß IEC60076 Standard. Die technischen Daten sind nicht bindend; diese können ohne Mitteilung verändert werden.

(*) nach Anfrage

Legend

Sn = Rating capacity
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