

Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 3-poles, $I_n=3200A$, breaking capacity E, without internal voltage tap up to 1150V AC 50/60Hz, $I_{cu}=85/50kA$ at 1000/1150V, Trip unit ETU600 LSI upgrade ready, color display, bluetooth and USB interface, Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection horizontal, without Com & metering function with manual and motorized operating mechanism (M) 208-240 V AC / 220-250 V DC, Storage status and ready-to-close signaling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 208-240 V AC / 220-250 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 208-240 V AC / 220-250 V DC, Shunt trip (ST) 100% OP 208-240 V AC / 220-250 V DC, suitable for continuous duty,

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | 3WA air circuit breaker |
| suitability for use | circuit breaker |
| size of the circuit-breaker | II |
| number of poles | 3 |
| position / of neutral conductor | no internal N-conductor |
| fastening method | fixed-mounted circuit breakers |
| design of the product | AC application |
| type of the driving mechanism | manual operating mechanism/spring charging motor with spring charge signaling switch |
| design of the electronic trip unit | ETU600 LSI |
| Weight | 65.613 kg |
| Net Weight | 50.613 kg |
| General technical data | |
| insulation voltage / rated value | 1150 V |
| operating voltage / at AC / at 50/60 Hz / rated value | 1150 V |
| power loss [W] / maximum | 410 W |
| Current | |
| continuous current / rated value / maximum | 3200 A |
| continuous current / rated value | 3200 A |
| operational current | |
| • at 40 °C / rated value | 3200 A |
| • at 45 °C / rated value | 3200 A |
| • at 50 °C / rated value | 3200 A |
| • at 55 °C / rated value | 3200 A |
| • at 60 °C / rated value | 3200 A |
| • at 65 °C / rated value | 3200 A |
| • at 70 °C / rated value | 3200 A |
| Switching capacity and short-time withstand current, according to IEC 60947-2 | |
| switching capacity class of the circuit breaker | E |
| maximum short-circuit current breaking capacity (I_{cu}) | |
| • at 500 V / rated value | 85 kA |
| • at 690 V / rated value | 85 kA |
| • at 1000 V / rated value | 85 kA |
| • at 1150 V / rated value | 50 kA |
| operating short-circuit current breaking capacity (I_{cs}) | |
| • at 500 V / rated value | 85 kA |
| • at 690 V / rated value | 85 kA |
| • at 1000 V / rated value | 85 kA |

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|---|--------|
| <ul style="list-style-type: none"> • at 1150 V / rated value | 50 kA |
| short-circuit current making capacity (I _{cm}) | |
| <ul style="list-style-type: none"> • at 690 V / rated value | 187 kA |
| <ul style="list-style-type: none"> • at 1000 V / rated value | 187 kA |
| <ul style="list-style-type: none"> • at 1150 V / rated value | 105 kA |
| short-time withstand current (I _{cw}) / at 690 V AC | |
| <ul style="list-style-type: none"> • for 0.5 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 1 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 2 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 3 s / rated value | 75 kA |
| short-time withstand current (I _{cw}) / at 1000 V AC | |
| <ul style="list-style-type: none"> • for 0.5 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 1 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 2 s / rated value | 85 kA |
| <ul style="list-style-type: none"> • for 3 s / rated value | 75 kA |
| short-time withstand current (I _{cw}) / at 1150 V AC | |
| <ul style="list-style-type: none"> • for 0.5 s / rated value | 50 kA |
| <ul style="list-style-type: none"> • for 1 s / rated value | 50 kA |
| <ul style="list-style-type: none"> • for 2 s / rated value | 50 kA |
| <ul style="list-style-type: none"> • for 3 s / rated value | 50 kA |

Electronic release unit

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| product feature | |
| <ul style="list-style-type: none"> • upgradable | Yes |
| <ul style="list-style-type: none"> • Bluetooth and USB interface | Yes |
| <ul style="list-style-type: none"> • decoder for basic protection functions | Yes |
| <ul style="list-style-type: none"> • display and function keys | Yes |
| <ul style="list-style-type: none"> • SENTRON powerconfig configuration software | Yes |

Basic protection functions

| | |
|---|--|
| product feature / for L-tripping | |
| <ul style="list-style-type: none"> • can be switched on/off | Yes |
| <ul style="list-style-type: none"> • selectable characteristic function | Yes |
| <ul style="list-style-type: none"> • decoder and infinite adjustability are selectable with eSet | Yes |
| set values setting current (I _r) / for L-tripping / with I2t characteristic | 0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1.0 |
| reference value setting current (I _r) / for L-tripping / with I2t characteristic | x I _n |
| set values delay time (t _r) / for L-tripping / with I2t characteristic | 1;2;5;8;10;14;17;21;25 |
| reference value delay time (t _r) / for L-tripping / with I2t characteristic | s |
| set values setting current (I _r) / for L-tripping / with I2t characteristic / for eSet | 0.4-1;0.001 |
| adjustable absolute value setting current (I _r) / for L-tripping / with I2t characteristic / for eSet | |
| <ul style="list-style-type: none"> • minimum | 1280 A |
| <ul style="list-style-type: none"> • maximum | 3200 A |
| set values delay time (t _r) / for L-tripping / with I2t characteristic / for eSet | 0.5-30;0.001 |
| set values setting current (I _r) / for L-tripping / with I4t characteristic / for eSet | 0.4-1;0.001 |
| set values delay time (t _r) / for L-tripping / with I4t characteristic / for eSet | 0.5-5;0.001 |
| reference value delay time (t _r) / for L-tripping / with I4t characteristic | s |
| adjustable absolute value setting current (I _r) / for L-tripping / with I4t characteristic / for eSet | |
| <ul style="list-style-type: none"> • minimum | 1280 A |
| <ul style="list-style-type: none"> • maximum | 3200 A |
| L: Overload protection N-conductor | |
| product feature / with neutral conductor protection / can be switched on/off | Yes |
| setting values setting current (I _{nN}) / for N-tripping | 0.2-2;0.001 |
| reference value setting current (I _{nN}) / for N-tripping | x I _n |
| adjustable setting current (I _{nN}) / for N-tripping | |
| <ul style="list-style-type: none"> • minimum | 640 A |

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|--|------------------------|
| <ul style="list-style-type: none"> ● maximum | 6400 A |
| S: delayed short-circuit protection ST | |
| product feature / for S-tripping | |
| <ul style="list-style-type: none"> ● independent of direction / can be switched on/off | Yes |
| <ul style="list-style-type: none"> ● independent of direction / selectable characteristic function | Yes |
| <ul style="list-style-type: none"> ● decoder and infinite adjustability are selectable with eSet | Yes |
| S: delayed short-circuit protection ST, settings values I0t | |
| set values setting current (I _{sd}) / for S-tripping / with I0t characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (I _{sd}) / for S-tripping / with I0t characteristic | x I _r |
| set values delay time (tsd) / for S-tripping / with I0t characteristic | 0.08;0.15;0.22;0.3;0.4 |
| reference value delay time (tsd) / for S-tripping / with I0t characteristic | s |
| set values setting current (I _{sd}) / for S-tripping / with I0t characteristic / for eSet / independent of direction | 0.6-10;0.001 |
| adjustable absolute value setting current (I _{sd}) | |
| <ul style="list-style-type: none"> ● at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1000 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1150 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum | 40 kA |
| set values delay time (tsd) / for S-tripping / with I0t characteristic / for eSet / independent of direction | 0.02-0.4;0.001 |
| S: delayed short-circuit protection ST, settings values I2t | |
| set values setting current (I _{sd}) / for S-tripping / with I2t characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (I _{sd}) / for S-tripping / with I2t characteristic | x I _r |
| set values delay time (tsd) / for S-tripping / with I2t characteristic | 0.1;0.2;0.3;0.4 |
| set values setting current (I _{sd}) / for S-tripping / with I2t characteristic / for eSet / independent of direction | 0.6-10;0.001 |
| adjustable absolute value setting current (I _{sd}) | |
| <ul style="list-style-type: none"> ● at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1000 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1150 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum | 40 kA |
| set values delay time (tsd) / for S-tripping / with I2t characteristic / for eSet / independent of direction | 0.02-0.4;0.001 |
| product feature / for I-tripping | |
| <ul style="list-style-type: none"> ● can be switched on/off | Yes |
| <ul style="list-style-type: none"> ● decoder and infinite adjustability are selectable (with eSet) | Yes |
| set values setting current (I _i) / for I-tripping | 1.5;2;3;4;6;8;10;12;15 |
| reference value setting current (I _i) / for I-tripping | x I _n |
| tripping factor setting current (I _{imax}) / for I-tripping | 0.8 |
| reference value setting current (I _{imax}) / for I-tripping | x I _{cs} |
| set values setting current (I _i) / for I-tripping / for eSet | 1.5-15;0.001 |
| adjustable absolute value setting current (I _i) | |
| <ul style="list-style-type: none"> ● at 690 V / for I-tripping / for eSet / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1000 V / for I-tripping / for eSet / maximum | 68 kA |
| <ul style="list-style-type: none"> ● at 1150 V / for I-tripping / for eSet / maximum | 40 kA |
| G: ground fault GF | |
| product feature / for G-tripping | |
| <ul style="list-style-type: none"> ● can be switched on/off | No |
| <ul style="list-style-type: none"> ● selectable characteristic function | No |
| Further protective functions | |
| protection function | |
| <ul style="list-style-type: none"> ● maintenance mode DAS+ | Yes |
| Measuring functions | |
| measurement function | |
| <ul style="list-style-type: none"> ● current measurement | Yes |

| Communication | |
|---|---|
| communication function | No |
| Service Life | |
| mechanical service life (operating cycles) | |
| • without support / typical | 10000 |
| • with support / typical | 20000 |
| electrical endurance (operating cycles) | |
| • at 690 V / without support / typical | 4000 |
| • at 690 V / with support / typical | 20000 |
| • at 1000 V / without support / typical | 1000 |
| • at 1150 V / without support / typical | 500 |
| • at 1150 V / with support / typical | 20000 |
| Dimensions | |
| height | 462 mm |
| width | 460 mm |
| depth | 357 mm |
| Main connection | |
| arrangement of electrical connectors / for main current circuit | main connection on the rear, horizontal |
| Auxiliary circuit | |
| design of the auxiliary switch | 2 NO + 2 NC |
| number of NC contacts / for auxiliary contacts | 2 |
| number of NO contacts / for auxiliary contacts | 2 |
| number of CO contacts / for auxiliary contacts | 0 |
| Internal accessories | |
| product component | |
| • undervoltage release | Yes |
| • voltage trigger | Yes |
| • trip indicator | Yes |
| • motor drive | Yes |
| Environmental conditions | |
| protection class IP / on the front | IP20 |
| ambient temperature / during operation | |
| • minimum | -40 °C |
| • maximum | 70 °C |
| ambient temperature / during storage | |
| • minimum | -40 °C |
| • maximum | 80 °C |
| Certificates | |
| reference code | |
| • according to IEC 81346-2 | Q |
| General Product Approval | For use in hazardous locations |



[Confirmation](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1232-8AE02-4EQ4>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1232-8AE02-4EQ4>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

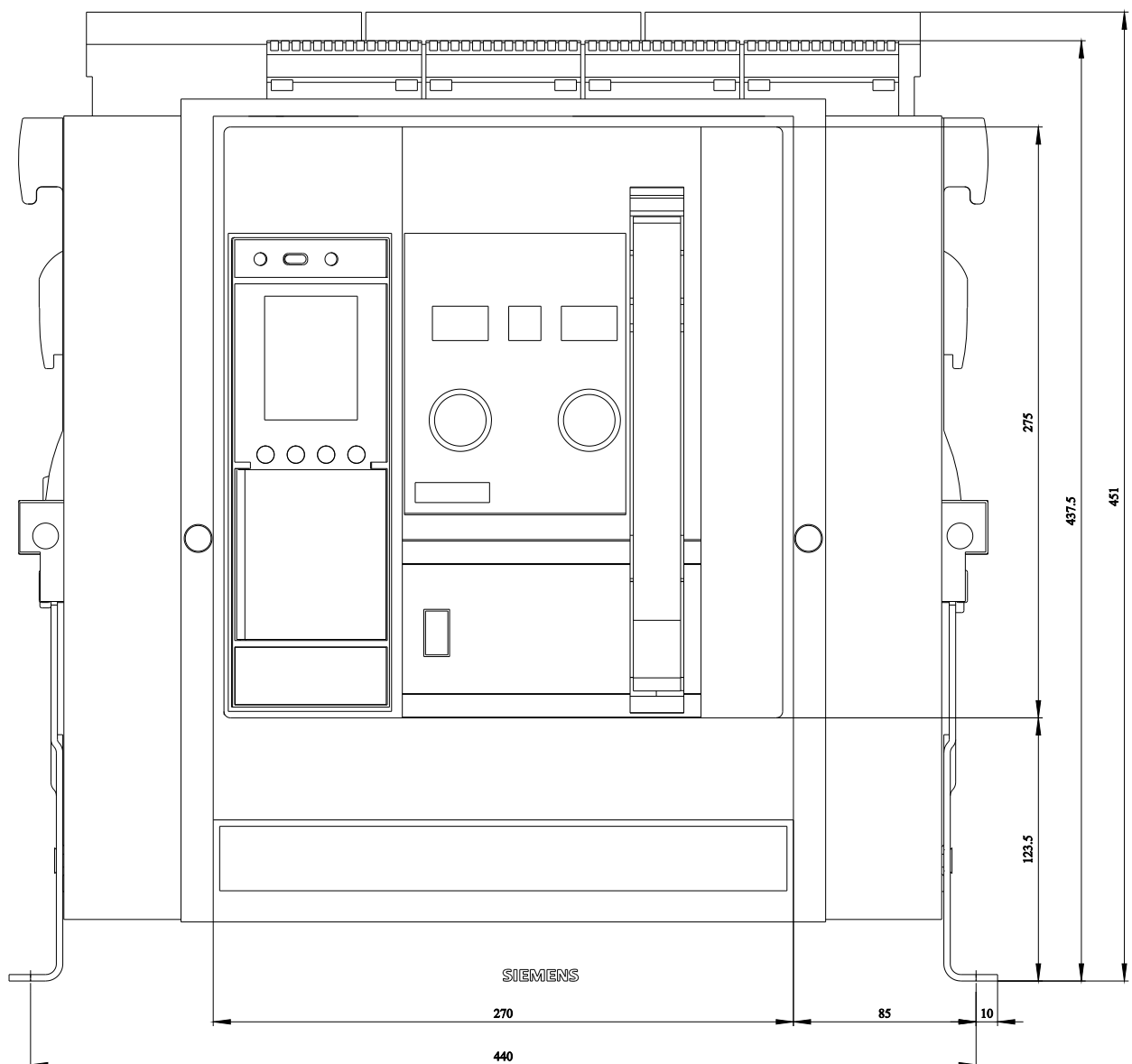
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1232-8AE02-4EQ4

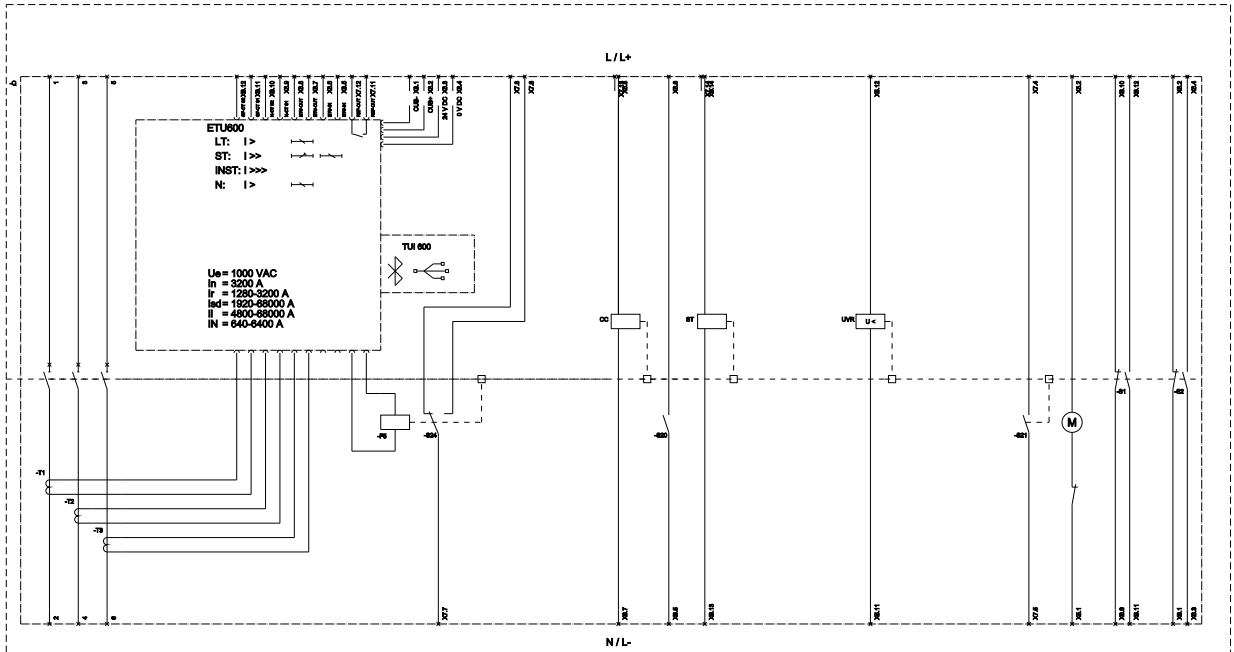
CAX-Online-Generator

<http://www.siemens.com/cax>

Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>





12 (Energy Meter / Energiemessung) 13 (Energy Meter / Energiemessung) 14 (Energy Meter / Energiemessung) 15 (Energy Meter / Energiemessung) 16 (Energy Meter / Energiemessung) 17 (Energy Meter / Energiemessung) 18 (Energy Meter / Energiemessung) 19 (Energy Meter / Energiemessung) 20 (Energy Meter / Energiemessung) 21 (Energy Meter / Energiemessung) 22 (Energy Meter / Energiemessung) 23 (Energy Meter / Energiemessung) 24 (Energy Meter / Energiemessung) 25 (Energy Meter / Energiemessung) 26 (Energy Meter / Energiemessung) 27 (Energy Meter / Energiemessung) 28 (Energy Meter / Energiemessung) 29 (Energy Meter / Energiemessung) 30 (Energy Meter / Energiemessung) 31 (Energy Meter / Energiemessung) 32 (Energy Meter / Energiemessung) 33 (Energy Meter / Energiemessung) 34 (Energy Meter / Energiemessung) 35 (Energy Meter / Energiemessung) 36 (Energy Meter / Energiemessung) 37 (Energy Meter / Energiemessung) 38 (Energy Meter / Energiemessung) 39 (Energy Meter / Energiemessung) 40 (Energy Meter / Energiemessung) 41 (Energy Meter / Energiemessung) 42 (Energy Meter / Energiemessung) 43 (Energy Meter / Energiemessung) 44 (Energy Meter / Energiemessung) 45 (Energy Meter / Energiemessung) 46 (Energy Meter / Energiemessung) 47 (Energy Meter / Energiemessung) 48 (Energy Meter / Energiemessung) 49 (Energy Meter / Energiemessung) 50 (Energy Meter / Energiemessung) 51 (Energy Meter / Energiemessung) 52 (Energy Meter / Energiemessung) 53 (Energy Meter / Energiemessung) 54 (Energy Meter / Energiemessung) 55 (Energy Meter / Energiemessung) 56 (Energy Meter / Energiemessung) 57 (Energy Meter / Energiemessung) 58 (Energy Meter / Energiemessung) 59 (Energy Meter / Energiemessung) 60 (Energy Meter / Energiemessung) 61 (Energy Meter / Energiemessung) 62 (Energy Meter / Energiemessung) 63 (Energy Meter / Energiemessung) 64 (Energy Meter / Energiemessung) 65 (Energy Meter / Energiemessung) 66 (Energy Meter / Energiemessung) 67 (Energy Meter / Energiemessung) 68 (Energy Meter / Energiemessung) 69 (Energy Meter / Energiemessung) 70 (Energy Meter / Energiemessung) 71 (Energy Meter / Energiemessung) 72 (Energy Meter / Energiemessung) 73 (Energy Meter / Energiemessung) 74 (Energy Meter / Energiemessung) 75 (Energy Meter / Energiemessung) 76 (Energy Meter / Energiemessung) 77 (Energy Meter / Energiemessung) 78 (Energy Meter / Energiemessung) 79 (Energy Meter / Energiemessung) 80 (Energy Meter / Energiemessung) 81 (Energy Meter / Energiemessung) 82 (Energy Meter / Energiemessung) 83 (Energy Meter / Energiemessung) 84 (Energy Meter / Energiemessung) 85 (Energy Meter / Energiemessung) 86 (Energy Meter / Energiemessung) 87 (Energy Meter / Energiemessung) 88 (Energy Meter / Energiemessung) 89 (Energy Meter / Energiemessung) 90 (Energy Meter / Energiemessung) 91 (Energy Meter / Energiemessung) 92 (Energy Meter / Energiemessung) 93 (Energy Meter / Energiemessung) 94 (Energy Meter / Energiemessung) 95 (Energy Meter / Energiemessung) 96 (Energy Meter / Energiemessung) 97 (Energy Meter / Energiemessung) 98 (Energy Meter / Energiemessung) 99 (Energy Meter / Energiemessung) 100 (Energy Meter / Energiemessung)

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