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| | | | | Tol. as per DIN ISO 2768-1 (c) | | | PAGE: 1 / 2 | | | FORMAT: A3 | | | |
| | | | | | | | | | | SCALE: 1:5 | | | |
| | | | | | DATE | NAME | DTOI Öl-Freiluft Durchführung - ESKOM 36kV / 3150A E=300 / Cu-Ag / ø290/250/111 | | | | | | |
| | | | | Creat. | 09.05.2022 | gbi | | | | | | | |
| | | | | Check | 10.05.2022 | smu | | | | | | | |
| | | | | Appr. | 10.05.2022 | smu | | | | | | | |
| | | | | www.mgc.ch | | | | | | | | | |
| | | | |  MOSER GLASER Current and voltage – our passion | | | DRAWING NO.: 610.22.0061 | | | | | REVISION: - | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| REV | DESCRIPTION | DATE | NAME | | | | | | | | | | |

Design Characteristics

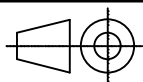
| | | |
|-----------------------------------|----------|-----------------------------------------|
| Insulation body | | Resin impregnated paper (RIP) |
| Insulator | | Silicone light grey |
| CT extension E | | 300 mm |
| Flange | | Made of corrosion free aluminium alloy |
| Test tap (AC test) | 50Hz/60s | 2 kV |
| Connection to transformer winding | | Copper conductor (3150A) |
| Top terminal | | B01=Copper silver plated - - - |
| Weight | | 63 kg |

Technical Data

| | | |
|-------------------------------------------|-------------------------------|------------------------|
| Standard | | IEC 60137 |
| Highest voltage (Um) | | 36 kV |
| Phase to earth voltage (Uy) | | 21 kV |
| Rated frequency (fr) | | 50 / 60 Hz |
| Power frequency voltage withstand (AC) | 50Hz/60s or 50Hz/72s @60Hz | dry 77 kV wet 70 kV |
| Lightning impulse withstand voltage (BIL) | 1,2/50µs | 200 kV |
| Switching impulse (SIL) | 250/2500µs | - kV |
| Max. rated current (Ir) | | 3150 A |
| Cable cross section (St) max. | | - |
| Rated thermal short-time current (Ith) | t=2s | 80 kA |
| Rated dynamic current (Id) | | 200 kA |
| Partial discharge level | 1.05 Um/ $\sqrt{3}$ | ≤5 pC |

Operating Conditions

| | | |
|-----------------------------|-------------------|------------------------------------------|
| Installation altitude | | 1800m above sea level |
| Ambient temperature | | -60 / +50 °C |
| Oil temperature | Max. | 100 °C |
| | Max. daily mean | 90 °C |
| Angle of mounting | | 0 - 90° |
| Specific creepage distance | (SCD) | 31mm/kV of highest voltage (Um) |
| | (USCD) | 53.7mm/kV of phase to earth voltage (Uy) |
| Min. creepage distance | | 1116 mm |
| Effective creepage distance | | 1262 mm |
| Min. cantilever test load | IEC 60137 class 2 | 3150N / 60s |



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