

Product data sheet

Specifications



Transformer, Minera, Tier2, oil type, 1600kVA, 20kV, 410V, 24kV

MIN160020002016

Main

| | |
|---------------------------|--------------------------------|
| Product range | Minera |
| Product or component type | Transformer |
| Transformer type | Oil type transformer |
| Dielectric liquid | Mineral oil |
| Network type | AC |
| Standards | EN/IEC 60076 EN 50588-1 |
| Type of installation | Indoor |
| Maximum altitude | < 1000 m |
| Cooling mode | ONAN (oil natural air natural) |
| Winding material | Aluminium |
| Degree of protection | IP21 low voltage cable box |
| Mounting mode | Ground mounted |

Complementary

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|---|---|
| Directives | 2021/2014/548/EC- ecodesign |
| Phase | 3 phases |
| Rated power | 1600 kVA |
| Rated frequency | 50 Hz |
| Rated primary voltage | 20 kV |
| Secondary voltage (at no-load) | No load: 410 V |
| Insulation voltage to industrial frequency (50 Hz 1 mn) | 50 kV primary 3 kV secondary |
| Rated insulation level | Primary circuit: 24 kV Secondary circuit: 1.1 kV |
| Lightning impulse withstand voltage (BIL) , 1.2/50 μ s | 125 kV for primary circuit |
| Vector group | Dyn11 |
| HV tappings (off circuit) | +/- 2 x 2.5 % |
| Short circuit impedance | 6 % |
| No-load losses | 1080 W |

| | |
|-------------------------------------|---|
| Load losses at 75°C | 12000 W at 75 °C |
| Temperature rise of windings | 60 K (oil) 65 K (winding) |
| Thermal class | A |
| Sound power level | 46 dB at 1 m |
| Electrical connection | Plug-in bushing high voltage connection Bar low voltage connection |
| Protective relay | DMCR relay |
| Locking options description | Without keylocks Bushing locking device |
| Height | 2034 mm +/- 20 mm |
| Width | 1010 mm +/- 20 mm |
| Length | 1560 mm (+/- 20 mm) |
| Total weight | 3955 kg +/- 5 % 901 kg +/- 5 % oil |

Environment

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|--|-------------|
| Maximum ambient temperature | 40 °C |
| Ambient air temperature for operation | -20...40 °C |
| Ambient air temperature for storage | -20...40 °C |
| Environmental certification | 0...95 % |
| Corrosion category | C3 |

Packing Units

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|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 3955.0 kg |
| Package 1 Height | 203.4 cm |
| Package 1 Width | 101.0 cm |
| Package 1 Length | 156.0 cm |

Offer Sustainability

| | |
|-----------------------------------|---|
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |

Recommended replacement(s)