Integrated safety detector Comem RIS2
bunch of accessories in one single device

Comem RIS2 integrates the functions performed by different transformer accessories into a single, compact and reliable device that keeps constant control of the transformer’s pressure, temperature, oil level and gassing.

Advantages:
• Different functions efficiently combined into a single compact design
• Reliable instrument, which guarantees numerous advantages, from economic to functional
• Easy installation and easy maintenance

Features:
• 180 degree visibility for liquid level indicator
• IP67
• Easy installation
• Environmental friendly
• Wide setting pressure range
• Double insulation system, no need to make the earth connection
• Air venting valve for draining the moisture inside the terminal box
• Withstand a DC magnetic field up tp 25 mT
• No need of anti-magnetism shielding
• UV protection screen
• 2 reeds
• 2 pressure switches
• 2 thermostats
• Possibility to embed a PCB
• Compliant with IEC 60076-22-1

Application:
• Hermetically sealed liquid-filled distribution and small power transformers
TECHNICAL DATA

Standard
IEC 60076-22-1

Degree of protection (CEI-EN 60529)
IP66, IP67 upon request

Degree of shock tightness (EN 50102)
IK 07

Salt-fogtight
1,000 h

UV-Ray resistance
(UNI-ISO 4892 / UNI-ISO 4582)
500 h

Ambient temperature
from -40°C to 60°C

Oil temperature
from 40°C to 120°C

Cable connection
M25x1.5

Cable box (EN 60947-7-1 / IEC 947-7-1)
According to standard

Wire section to be used on clamp box
Up to 2.5 mm²

Max. rated pressure
500 mbar

Electrical characteristics
Insulated enclosure

Thermostats precision
± 4°C accuracy tolerance of end scale

Overpressure switches precision
± 10% accuracy tolerance of end scale

Thermometers precision
± 3°C accuracy tolerance of end scale

CONTACTS INTERRUPTION POWER

<table>
<thead>
<tr>
<th>Liquid level / gas bleed</th>
<th>Voltage</th>
<th>Making capacity</th>
<th>Breaking capacity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>24V d.c. to 220V d.c.</td>
<td>2A</td>
<td>100 mA</td>
</tr>
<tr>
<td>Pressure switch</td>
<td></td>
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<td></td>
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</tbody>
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| Thermostat              | 230V a.c. | 2A              | 2A                |

|                         |         |                 | cos Φ > 0.5        |

- **Gassing**
  Detector closes/opens a circuit when the max. gas volume is reached (max. 170 cm³)

- **Pressure**
  Pressure switch closes/opens a circuit on pressure ranging from 100 up to 500 mbar

- **Oil level**
  Indicator: visual indication of slight oil level variation
  Detector: visual detector of significant oil level variation through closing/opening of an electric circuit

- **Temperature**
  Thermometer: visual indication of oil temperature and max. temperature reached
  "T2" Thermostat switch alarm closes/opens a circuit at a predetermined temperature level (from 30°C up to 120°C)
  "T1" thermostat switch stop closes/opens a circuit at a predetermined temperature level (from 30°C up to 120°C)