DNV·GL

Certificate No:
**TAE0000136**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Circuit Breaker**

with type designation(s)
**GV3P13 to GV3P65, GV3L25 to GV3L65 and auxiliary contacts type GVAED**

Issued to
## Schneider Electric Industries SAS
**EYBENS, France**

is found to comply with
**DNV GL rules for classification – Ships and offshore units**
**DNV GL class programme CP-0396 – Type Approval of low-voltage switchgear and controlgear; rated voltage does not exceed 1000V a.c. or 1500V d.c.**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

| | |
|---|---|
| **Rated Voltage (V)** | **Up to 690V** |
| **Rated Current (A)** | **9-65** |
| **Frequency (Hz)** | **50/60** |

This Certificate is valid until **2020-07-04**.

Issued at **Høvik** on **2016-04-18**

for **DNV GL**

DNV GL local station: **Paris CMC / VMC**

Approval Engineer: **Marta Alonso Pontes**

**Marit Laumann**
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-020865-1**
Certificate No: **TAE0000136**

## Product description

Motor circuit breaker :
GV3P : Thermal- Magnetic breaker
GV3L : Magnetic breaker

| | |
|---|---|
| Rated current Ie: | GV3 P: 9-65 A<br>GV3 L: 25-65 A |
| Motor protection: | GV3P: 5,5-30 kW<br>GV3 L: 11-30 kW |
| Max. operating voltage Ue: | 600/690 V AC* |
| Rated insulation voltage Ui: | 600/690 V AC* |
| Rated impulse voltage Uimp: | 6 kV |
| Rated frequency fe: | 50/60 Hz |
| Utilization category: | A |

*See application / limitation

<table>
<tr><th></th><th colspan="5">Icu [kA] = Iq</th><th colspan="2">Ics [KA]</th></tr>
<tr><th></th><th>230V</th><th>400/415V</th><th>440V</th><th>500V</th><th>690V</th><th>230V<br>400/415V<br>440V</th><th>500V<br>690V</th></tr>
<tr><td>GV3P13</td><td rowspan="7">100</td><td rowspan="4">100</td><td rowspan="7">50</td><td rowspan="7">12</td><td rowspan="7">6</td><td rowspan="7">100%Icu</td><td rowspan="7">50%Icu</td></tr>
<tr><td>GV3P18</td></tr>
<tr><td>GV3P25</td></tr>
<tr><td>GV3P32</td></tr>
<tr><td>GV3P40</td><td rowspan="3">50</td></tr>
<tr><td>GV3P50</td></tr>
<tr><td>GV3P65</td></tr>
<tr><td>GV3L25</td><td rowspan="5">100</td><td rowspan="2">100</td><td rowspan="5">50</td><td rowspan="5">12</td><td rowspan="5">6</td><td rowspan="5">100%Icu</td><td rowspan="5">50%Icu</td></tr>
<tr><td>GV3L32</td></tr>
<tr><td>GV3L40</td><td rowspan="3">50</td></tr>
<tr><td>GV3L50</td></tr>
<tr><td>GV3L65</td></tr>
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## Application/Limitation

Working environmental temperature :
-20°C up to +40°C enclosed product
-20°C up to +60°C open product

The max. rated voltage is 600 V when used in IT (ship) net due to Uimp=6 kV. It can be used in applications with directly earthed systems with rated voltage of 400/690 V.

## Type Approval documentation

## Tests carried out

Dry Heat Test, Damp Heat Test, Low temperature Test, Vibration test.
Type Tests acc. to IEC60947-1(ed.5);am1, IEC60947-2(ed.4 incl. annex H);am1;am2, IEC60947-4-1 (ed.3); am1

## Marking of product

Manufacturer's name and product identification

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE