

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Disconnection Switch**

with type designation(s)

**V02, V01, V0, V1, V2, V3, V4, V5, V6**

Issued to

**Schneider Electric Industries SAS**  
**Eybens Isere, France**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2017-05-21**This Certificate is valid until **2021-03-28**.DNV GL local station: **Paris CMC / VMC**for **DNV GL**Approval Engineer: **Marta Alonso Pontes**

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**Andreas Kristoffersen**  
**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: **262.1-024744-1**  
Certificate No: **TAE00001WF**

## Name and place of manufacture

Schneider Electric, a.s.  
Cizovska 447  
397 01 Pisek  
Czech Republic

## Product description

Isolating switches with the following characteristics:

|                                             |                |
|---------------------------------------------|----------------|
| Rated current, I <sub>e</sub> :             | 12 up to 165 A |
| Rated operational voltage, U <sub>e</sub> : | 690 V          |
| Rated insulation voltage, U <sub>i</sub> :  | 690 V          |

Specifications:

| Model and Specifications |                    | V02  | V01  | V0   | V1   | V2   | V3   | V4   | V5   | V6   |
|--------------------------|--------------------|------|------|------|------|------|------|------|------|------|
| I <sub>e</sub> (A)       |                    | A    | A    | A    | A    | A    | A    | A    | A    | A    |
| Utilization category     | U <sub>e</sub> (V) |      |      |      |      |      |      |      |      |      |
| AC-21A/AC-22A            | 230 - 690V         | 12   | 20   | 25   | 32   | 40   | 63   | 80   | 125  | 160  |
| AC-23A                   | 230V               | 10.6 | 14   | 19.7 | 19.7 | 25.8 | 50,3 | 61,2 | 71,9 | 96,6 |
|                          | 400V               | 8.1  | 11   | 14.5 | 21.8 | 29   | 41,5 | 57   | 68,5 | 83   |
|                          | 500V               | 8.9  | 11.9 | 16.7 | 16.7 | 28.5 | 44   | 54   | 64,5 | 79   |
|                          | 690V               | 8.6  | 12.3 | 17.5 | 17.5 | 17.5 | 25   | 33   | 42   | 49   |

Rated short circuit capacity:

|                      |                       |
|----------------------|-----------------------|
| Performance at:      | 400/ 690V             |
| Im:                  | 0,3-0,9/ 0,18-0,48 kA |
| Icu:                 | 0,3-0,9/ 0,18-0,48 kA |
| Rated surge-current: | 1,0 / 2,8 kA          |
| Short- time current: | 0,6 / 2,5kA           |

Supplementary modules:

|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Main contacts:                               | (V02, V01, V0...2, V3...V4)        |
| Auxiliary contact:                           | AC15, 400 / 4A – (V0...2, V3...V6) |
| Encapsulated design with PC plastic housing: | IP56 (V0...2, V3... V4)            |

## Application/Limitation

Temperature class: B  
Humidity class: B  
Vibration class: A

## Type Approval documentation

### Tests carried out

Regulations for the Performance of Type Tests, Edition 2014,  
For switch-disconnector: IEC 60947-3 (2008 + A1: 2012 except for V3 & V4 which respects IEC 60947-3:2008)



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For auxiliary contacts: IEC 60947-5-1 (2003 + A1: 2009)

## **Marking of product**

Manufacturer's identification - Type designation - Rated voltage - Rated current

## **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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE