Certificate No:
TAE00002XH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pilot Device

with type designation(s)
SIRIUS Act 3SU1...

Issued to
Siemens AG GWA
Amberg, Bayern, Germany

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

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

Issued at **Hamburg** on **2022-08-31**
This Certificate is valid until **2027-08-30**.
DNV local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV**

Arne Schaarmann
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

SIRIUS Act 3SU1

Modular system of pushbuttons and EMERGENCY STOP mushroom pushbuttons as well indicator lights for front plate mounting and rear-mounted electrical modules and enclosures.

Versions:
• Plastic, 22 mm, round, black
• Plastic with metal front ring, 22 mm, round, matte
• Metal with metal front ring, 22 mm, round, shiny
• Metal with metal front ring, 30 mm, flat, round, matte

Device types:
• 3SU10… Actuating and signalling elements
• 3SU11… Complete units
• 3SU12… Buzzer, Potentiometer Units
• 3SU14… Modules for actuators, indicators, ASI, IO Link, Interface and Terminal Module
• 3SU15… Holders with module
• 3SU18… Enclosures
• 3SU19… Accessories

Contactor elements : 3SUS1400-…
Rated insulation voltage Ui : 500V
Rated impuls withstand voltage Uimp : 6kV
Pollution degree 3
Rated operational current :
- AC-12: 24V/10A, 230V/10A, 500V/10A
- AC-15: 24V/6A, 230V/6A, 400V/3A, 500V/1.4A
- DC-12: 24V/10A, 48V/5A, 110V/2.5A, 230V/1.0A, 400V/0.3A, 500V/0.2A
- DC-15: 24V/3A, 48V/1.5A, 110V/0.7A, 230V/0.3A, 400V/0.1A, 500V/0.07A
Type of electrical connection : Screw terminals, Spring-type terminals, Socket terminals (THT)

Electrical emergency stop device with mechanical latching function and tamper proof acc. IEC 60947-5-5

LED elements : 3SU1401-…
Rated insulation voltage Ui : 320V
Rated impuls withstand voltage Uimp : 4kV
Pollution degree 3
Operational voltage : 24, 110, 230VAC, 24VDC, 6…24VAC/DC, 24…230VAC/DC
Type of electrical connection : Screw terminals, Spring-type terminals, Socket terminals (THT)

Application/Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A, EMC: B 6GHz

Degree of protection:
3SU10…, 3SU11…, 3SU12…, 3SU18… IP66 / IP67 / IP69K (plastic / metal)
3SU14…, 3SU15… Enclosure: IP40, Connecting terminals: IP20

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 60947-1, 60947-5-1, 60947-5-5, Cold, dry heat, damp heat, vibration, flame retardancy and EMC.

Marking of product

Siemens - Type designation - Main data.

Name & Place of Manufacturer

Siemens AG, NST
Volanovská 516
541 01 Trutnov
Czech Republic

Siemens Electrical Apparatus Ltd.
Suzhou, Tiantai Branch Building A & B No. 699-10
Jigong Road, Shifeng Street, Tiantai, Taizhou
317200 Zhejiang, P.R. China

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