

TYPE APPROVAL CERTIFICATE

Certificate No: **TAA0000218**Revision No: 2

This is to cer	ertify:	
That the Timer I	r Relays	
with type designated Zelio Time RE22	gnation(s) 22, RENF22, Schneider Electric brand	
Issued to Schneider Singapore, S	er Electric Asia Pte Ltd Singapore	
is found to comp DNV rules for	nply with or classification – Ships, offshore units, and high speed and light cra	ft
Application:	1:	
Product(s) appr	proved by this certificate is/are accepted for installation on all vesse	ls classed by DNV.
Temperature Humidity Vibration EMC Enclosure	B B A A Required protection according to DNV Rules shall be provided up	on installation on board
Issued at Hamb u	burg on 2023-09-28	
This Certificate is	e is valid until 2028-09-27 .	or DNV
	: Certification of Materials - Singapore	
Approval Engine		s Papanuskas l of Section

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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.



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Product description

Electronic Timers Type No. RE22 or modular timing relay RENF22 followed by R followed by 1 or 2, followed by A, AC, AK, C, D, H, K, Q, QC, QE, QG, QT, M, MX, MY, MW, MK, MA or ML, followed by JU, MW, MU, MQ, MR or MT.

RE22: Timing range 20/40/60/80/100/120/140 ms

or 1s/10s/1 min/10 min/1 h/10 h/100 h

Multi or Mono-functional, Screw clamps for all types, One or two relay output 8A, 250V AC/DC

RENF22: NFC capabilities

Timing range 0.1 s...999 h

Types: 22.5 mm housing, DIN rail

Nomenclature:

RE22 R 1 M MU I II III IV V

I: Product Range

-RE22 Universal Function Electronic Timer

II: Output

- R Electromechanical relay

III: Time Delay Type and Function

- 1 One Relay

- 2 Two Relays

IV: Time Delay Sub-types and Sub-function

- A On Delay function

- AC On Delay function with control

- AK Asymmetrical ON/OFF delay with external control

- C Off Delay with control signal

- D Symmetrical flashing

- H Timing on energization

- K Delay on de-energization

- Q Star-delta timing

- QC Star-delta timing

- QE Star-delta timing

- QG Star-delta timing

- QT Star-delta timing

- M Multi-function(A-At-B-C-H-Ht-Di-D-Ac-Bw)

- MX Multi-function(Ad-Ah-N-O-P-Pt-T-Tt-W)

- MY Multi-function(A-C-D-Di-H-W)

- MW Multi-function (Ht-W)

- MK Multi-function(K-He)

- MA Multi-function(A-At-Aw)

- ML Multi-function(L-Li-Lt)

V: Input Voltage (50/60 Hz)

- MU 24 V dc and 24-240 V ac

- MW 12-240 V ac/dc

- JU 12 V ac/dc

- MQ 230-240 V ac, 380-440 V ac

- MR 24-240 V ac/dc

- MT 380-415 V ac

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RENF22 R 2 M MW I II III IV V

I: Product Range

-RENF22 Multifunction Electronic Timer

II: Output

- R Electromechanical relay

III: Time Delay Type and Function

- 2 Two Relays

IV: Time Delay Sub -types and Sub-function

- M Multi-function(A-At-B-C-H-Ht-Di-D-Ac-Bw)

V: Input Voltage (50/60 Hz)

- MW 12-240 V ac/dc

Covered types:

RE22R1QMU, RE22R1QMQ, RE22R2AMU, RE22R2MJU, RE22R2MMW, RE22R2MMU and RE22R2MXMU, RE22R1AMR, RE22R2AMR, RE22R1HMR, RE22R2HMR, RE22R1DMR, RE22R2DMR, RE22R1CMR, RE22R2CMR, RE22R1ACMR, RE22R2ACMR, RE22R1AKMR, RE22R2MWMR, RE22R1MAMR, RE22R2MYMR, RE22R1MYMR, RE22R1MLMR, RE22R2QTMR, RE22R2QGMR, RE22R2QEMR, RE22R1QCMU, RE22R1KMR, RE22R2KMR, RE22R1MKMR, RE22R2QEMT and RENF22R2MMW

Factory: P T Schneider Electric Manufacturing Batam

Batamindo Industrial Park, Jalan Beringin Lot 4 & 208, Muka Kuning, Batam Island, Indonesia

Brands: Schneider Electric

Telemecanique

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

See ANNEX

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number

Brands:

- Schneider Electric
- Telemecanique

Place of Production:

P T Schneider Electric Manufacturing Batam

Batamindo Industrial Park, Jalan Beringin Lot 4 & 208, Muka Kuning, Batam Island, Indonesia

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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the 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

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ANNEX

Type Approval documentation

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Test Reports:
AV5196200
                  Juret Timer_Flammability Test- PSB
                  Juret Timer_Vibration Test_ PSB
Juret Timer_ High Voltage Dielectric
Juret Timer_ Insulation Resistance
EAV5196300
EAV5197100
EAV5198300
                  Juret Timer_ Power Supply Failure
EAV5198500
                  Juret Timer_ Power Supply Variations
EAV5200900
                  Juret Timer_ Cold
Juret Timer_ Dry Heat
Juret Timer_ Damp Heat
Juret Timer_ Electrostatic Discharge
EAV5201000
EAV5201100
EAV5201200
EAV5201300
                  Juret Timer_EMC Test (Electromagnetic Fields, CE, RE)
EAV5201400
EAV5201500
                  Juret Timer Product Performance
                  Juret Timer Conducted low frequency interference (harmonics)
EAV5201700
                  Juret Timer_Surge
EAV5201800
                  Juret Timer_Conducted Fast Transients
Juret Timer_ Conducted High Frequency Interference
EAV5201900
EAV5202000
NHA5582801
                  Performance test
NHA5582802
                  Vibration
NHA5582803
                  High voltage
NHA5582804
                  Insulation resistance
NHA5582805
                  Power supply failure
NHA5582806
                  Power supply variation
NHA5582807
                  Cold
                  Dry heat
NHA5582808
                  Damp heat
NHA5582809
                  Electrostatic discharge
NHA5582810
NHA5582811
                  Electromagnetic fields
                  Conducted emissions
NHA5582811
NHA5582811
                  Radiated emissions from enclosure port
NHA5582814
                  Conducted low frequency interference (harmonics)
NHA5582815
                  Conducted slow transients (surge)
NHA5582816
                  Conducted fast transients (burst)
NHA5582817
                  Conducted high frequency interference
                  NFC Basic Operating Function- All Function Check Test Report
NVE6772617
NVE6772634
                  Conducted fast transients (burst)
NVE6772635
                  Conducted slow transients (surge)
NVE6772636
                  CI
NVE6772653
                  Vibration (GL)
NVE6772654
                  Electrostatic discharge
NVE6772655
                  CE, RE, RI (GL)
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IACS E10 Rev, 07 Report:

7191306009-EEC23/01 TÜV SUD EMC RF Radiated Immunity according to clause 14.8 DNV-CG-0339 August 2021

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