

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Siemens AG</b>
<b>Address</b>	Werner-von-Siemens-Strasse 48, Amberg, 92220, Germany
<b>Type</b>	Relays - Electronic Monitors
<b>Description</b>	SIRIUS Safety Relays Refer to the Appendix for further details.
<b>Trade Name</b>	3SK1
<b>Application</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 (general power distribution zone) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July 2015.
<b>Specified Standard</b>	EN ISO 13849-1:2015 EN 60947-5-1:2017 EN 62061:2005/A1:2013/A2:2015 EN IEC 63000:2018
<b>Ratings</b>	Installation: Railmounting Supply voltage: 24 VDC 24 VAC/DC

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## Type Approval Certificate

115VAC, 230 VAC  
115– 240 VAC/DC

Auxiliary circuit	
Rated voltage:	Ue = 240V (relay output) Ue = 24V (semiconductor output)
Rated insulation voltage:	Ui = 300V (relay output) Ui = 50V (semiconductor output)
Rated imp. withstand voltage:	Uimp = 4kV (relay output) Uimp = 0,8kV (semiconductor output)
Rated current:	Ith = 5A / 10A (relay output) Ith = 0.5A / 2A (semiconductor output)
Rated frequency:	50 / 60 Hz, dc
Rated conditional short circuit:	1kA
Utilization categories:	AC-15, DC-13

**Additional Tests** Low temperature test (-25°C/16h)

**Other Conditions** 24 VDC power supply lines are to be protected by surge protection unit, manufactured by Dehn, type BVT AVD 24, rated 24V or equivalent.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 16/20005

The Design Appraisal Document HTS/ETS 41527-21/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

## Appendix

<b>TYPE</b>	3SK1①②③-④⑤⑥⑦
① Type of device:	1 - Main unit 2 - Extension unit
② Subtype of device 3SK11:	1 - Basic 2 - Advanced
Subtype of device 3SK12:	1 - Output extension unit 2 - Input extension unit
③ Type of output:	0 - Without output 1 - Relay output 2 - Semiconductor output 3 - Relay Output expansion
④ Type of terminal:	1 -Screw terminal 2 - Spring terminal
⑤ Number of outputs:	A - 3 release circuits B - 2 release circuits C - 4 release circuits
⑥ Control Supply Voltage:	J2 - 115 V ac L2 - 230 V ac B0 – 24 V ac B4 - 24 V dc B3 - 24 V ac/dc W2 - 115-240 V ac/dc
⑦ Time delay function:	0 - no time delay 1 - 0,05 – 3 seconds delay time 2 - 0,5 – 30 seconds delay time 4 - 5 – 300 seconds delay time 9 – customers request time delay