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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.

Manufacturer	ComatReleco AG
Address	Bernstraße 4, Worb, 3076, Switzerland
Туре	Relays - Magnetic
Description	Electromagnetic relays – pluggable: C7-series: 2-pole plug-in type with dust cover and base C9-series: 2-pole plug-in type with dust cover and base C9-series: 4-pole plug-in type with dust cover and base Sockets: S7-series: Sockets for C7-series relays S9-series: Sockets for C9-series relays
	For detailed product description, pls. refer to appendix.
Trade Name	C7-series, C9-series
Application	Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - June 1990.
Specified Standard	Manufacturer's specification IACS E10 Rev. 8 / 2021

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Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

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Ratings	No. of poles: 2 & 4 Switching current: 510 A Switching voltage: 250 VAC Coil voltage: 12230 VAC / 12110 VDC For detailed ratings, pls. refer to appendix.
Other Conditions	Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. If the specified standards are amended during the validity of this certificate, the product is to be re- approved prior to it being supplied to vessels to which the amended standards apply.

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.

The Design Appraisal Document HTS/ETS 42202-22/MK/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

Electromagnetic relays with sockets (pluggable)

RATINGS

Туре	No. of poles	Coil voltage (V)	Max. switching current (A)	Max. switching voltage (V)			
C7-series: Industrial Relays - pluggable							
C7-G20/ACV C7-G20X/ACV	2	12, 24, 48, 115, 230 VAC 50/60 Hz					
C7- G20/DCV C7- G20X/DCV C7- G20DX/DCV C7- G20FX/DCV		12, 24, 48, 110 VDC	10	250			
C7-H23X/ACV		230 VAC 50/60 Hz					
C7-H23X/DCV	2	24 VDC	10	250			
C7-T2x/ACV C7-T2xX/ACV		12, 24, 115, 230 VAC 50/60 Hz					
C7-T2x/DCV C7-T2xX/DCV C7-T2xDX/DCV C7-T2xFX/DCV	2	12, 48, 60, 110, 220 VDC	6	250 AC			
C7-T2xX/UCV		12, 24 VDC or AC	_				
C7-W10/ACV C7-W10X/ACV	1	48, 115, 230 VAC 50/60 Hz	10	250			
C7-W10/DCV C7-W10X/DCV C7-W10FX/DCV		12, 48, 60, 110 VDC					
C7-W10BX/UCV		24 VDC or AC					
C7-X10/ACV C7-X10X/ACV	1	24, 115, 230 VAC 50/60 Hz					
C7-X10/DCV C7-X10X/DCV C7-X10FX/DCV C7-X10BX/UCV		12, 24, 48, 110 VDC	10	250			
C9-A4x/ACV C9-A4xX/ACV	2	12, 24, 48,60, 230 VAC 50/60 Hz					
C9-A4x/DCV C9-A4xX/DCV C9-A4xDX/DCV C9-A4xFX/UCV		12, 24, 48, 60, 110, 220 VDC	5	250 AC			
C9- A4xBX/UCV		12, 24, 48, 60 VDC or AC	1				

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RATINGS (continued)

Туре	No. of poles	Coil voltage (V)	Max. switching current (A)	Max. switching voltage (V)
C9-E21X/ACV C9-E21FX/DCV C9-E21BX/DCV	2	12, 24, 48, 60, 230 VAC 50/60 Hz 12, 24, 48, 60, 110, 220 VDC 24 VDC or AC	5	250
C9-R21/ACV C9-R21/DCV	2	24, 48, 115, 230 VAC 50/60 Hz 12, 24, 48, 60 VDC	10	120

Sockets:

S7-C, S7-IO S9-M 8-pin socket for C7 relay 14-pin socket for C9 relay

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