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Certificate No: LR2195369TA-03 Issue Date: 07/12/2022 Expiry Date: 10/10/2025

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

Type 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- and R9x-series relays

For detailed product description, pls. refer to appendix.

Trade Name C7-series, C9-series, S7-series, S9-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 - December 2021.

Specified Standard Manufacturer's specification

IACS E10 Rev. 8 / 2021

Matthias Karg

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: 5...10 A Switching voltage: 250 VAC

Coil voltage: 12...230 VAC / 12...110 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.

Previous Version: This certificate supersedes certificate number LR2195369TA-02 issued on

26 January 2022 which is hereby cancelled.

The Design Appraisal Document HPC1462057-22/MK 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

Relays:

Туре	No. of poles	Coil voltage (V)	Max. switching current (A)	Max. switching voltage (V)				
C7-series: Industrial Relays – pluggable (x = 1,2)								
C7-G20/ACV		12, 24, 48, 115, 230 VAC 50/60 Hz						
C7- G20X/ACV								
C7- G20/DCV	2		10	250				
C7- G20X/DCV	_	12, 24, 48, 110 VDC	1	250				
C7- G20DX/DCV		,, .,						
C7- G20FX/DCV								
C7-H23X/ACV		230 VAC 50/60 Hz	10	250				
C7-H23X/DCV	2	24 VDC						
·	1		1					
C7-T2x/ACV		12, 24, 115, 230 VAC 50/60 Hz						
C7-T2xX/ACV		, _ , ,	6	250				
C7-T2x/DCV								
C7- T2xX/DCV	2	12, 48, 60, 110, 220 VDC						
C7- T2xDX/DCV		, -,, -, -						
C7- T2xFX/DCV								
C7- T2xX/UCV		12, 24 VDC or AC						
C7-W10/ACV								
C7-W10X/ACV		48, 115, 230 VAC 50/60 Hz						
C7-W10/DCV			10	250				
C7-W10X/DCV	1	12, 48, 60, 110 VDC						
C7-W10FX/DCV								
C7-W10BX/UCV		24 VDC or AC						
67.740/46.34								
C7-X10/ACV		24, 115, 230 VAC 50/60 Hz						
C7- X10X/ACV			-					
C7- X10/DCV	1		10	250				
C7- X10X/DCV		12, 24, 48, 110 VDC						
C7- X10FX/DCV C7- X10BX/UCV								
C1-X10BX/UCV								
C9-series: Industr	ial Relays	- pluggable (x = 1,2)						
C9-A4x/ACV		12 24 49 CO 220 VAC EO/CO Uz						
C9-A4xX/ACV		12, 24, 48,60, 230 VAC 50/60 Hz						
C9-A4x/DCV								
C9- A4xX/DCV	2	12 24 49 60 110 220 400	5	250				
C9- A4xDX/DCV		12, 24, 48, 60, 110, 220 VDC						
C9- A4xFX/DCV								
C9- A4xBX/UCV		12, 24, 48, 60 VDC or AC						



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RATINGS (continued)

Туре	No. of poles	Coil voltage (V)	Max. switching current (A)	Max. switching voltage (V)			
C9-series: Industrial Relays – pluggable (x = 1,2)							
C9-E21X/ACV		12, 24, 48, 60, 230 VAC 50/60 Hz					
C9-E21FX/DCV	2	12, 24, 48, 60, 110, 220 VDC	5	250			
C9-E21BX/UCV		24 VDC or AC					
C9-R21/ACV	2	24, 48, 115, 230 VAC 50/60 Hz	5	120			
C9-R21/DCV		12, 24, 48, 60 VDC] 3	120			

AgNi C7-G20, C7-X10

AgNi + 0.2 μ Au C7-T21, C9-A41, C9-E21, C9-R21

AgNi + 5 μ Au C9-A42, C7-T22

Tungsten = Pre-contact / AgNi = Main contact C7-W10

Sockets:

Type designation	No. of	Suitable for	Mounting	Max. switching	Max. switching
designation	pins	relay type		current (A)	voltage (V)
S7-C	8	C7x	TS35	10 A / 16 A (1 pole)	250 V
S7-IO	0	CIX	1333	10 A	230 V
S9-M		C9x	TS35		
S9-PI	14	C9X	TH35	6 A	250 V
S9-PIR		R9x	11133		1