



# DEIF A/S

# Type certificate

4124030044A

Type:	LMR-122D Loss of mains relays (uni-line)
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**Technical specifications**

Measuring voltage ( $U_n$ )	57.7-63.5-100-110-127-200-230-240-380-400-415-440-450-660-690VAC $\pm 20\%$
Overload: Load:	1.2 x $U_n$ continuously 2 x $U_n$ for 10s 2k $\Omega$ /V
Frequency range:	40...45...65...70Hz
RESET inputs:	Inputs voltage: 18...250V AC/DC for "activated condition" Input impedance: 100k $\Omega$
Output: Contact type: Contact ratings: Contact voltage:	Relay B + C Normally energized ("NE") or normally de-energised ("ND") 250V-8A-2000VA (AC) 24V-8A-200W (DC) (200 x 10 <sup>3</sup> change-overs at resistive load) Max. 250V (AC) Max. 150V (DC)
Response time:	ROCOF (df/dt) < 100ms Vector shift < 30ms
Supply voltage: ( $U_n$ )	57.7-63.5-100-110-127-200-230-240-380-400-415-440-450-660-690VAC $\pm 20\%$ (max. 4VA) 24-48-110-220V DC -25/+30% (max. 3.5W)
Temperature drift:	Set points: max. $\pm 0.2\%$ of full scale per 10°C.

**Type test specifications****Tested according to:**

Insulation:	500V DC, >100M $\Omega$	DNV, GL and LR
Vibration:	2...13.2Hz: 3 mm 13.2...100Hz: 1.0 g	DNV, GL and LR test 1
Shock:	6 attempts with 50 g (in all 3 axes)	IEC 68-2-27, test: Ea
Climate:	HSE	DIN 40040
Protection:	Case: IP40 Terminals: IP20	IEC/EN 60529
Temperature:	-25...70°C (operating)	DNV, GL and LR
Test voltage:	2200/3250V-50Hz-1 min between inputs and outputs	IEC/EN 61010-1
EMC:	Immunity	SS4361503 - PL 4, IEC 255-22-1...4 and EN 50082-1/2
	Emission	EN 50081-1/2



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