

**DEIF A/S****Type certificate**

4124030036A

Type: MDR-1 *multi-line* multi differential protection relays for generating sets.**Technical specifications**

Accuracy:	1 % referring to the nominal current
Operating temperatur:	-20...70°C (display, however: -20...60°C)
Measuring Current:	-/1 or -/5A, consumption: max 0.1 VA per phase
Overcurrent:	5 x I _n continuously, 30 x I _n for max. 100ms 100 x I _n for max 10ms -/1A: max. 100 x I _n for 1s -/5A: max. 20 x I _n for 1s
Measuring Frequency:	40...70Hz
Auxiliary Supply:	24V DC -25/+30%, max 10W
Binary inputs:	Input voltage: 18...250V DC or 18...250V AC Input impedance: 68kΩ
Relay outputs:	Contact rating: 8A / 250V AC Max voltage 380V AC Mechanical life: min. 100,000 changeovers
Fuse:	All voltage inputs should be protected by a 2A fuse

Type test specifications

Tested according to:

Safety:	Installation Cat. III, 300V. Pollution degree 2	EN 61010-1
Galvanic Separation:	Between all binary input groups, and between binary inputs and remaining circuits. Between all relay outputs. Insulation resistance >1000MΩ / 500V DC	
EMC:		EN 50081 - 1 / 2 and EN 50082 1 / 2
Protection:	IP21 Front: IP52	IEC/EN 60529
Housing:		DIN 43700
Climate:	Class HSE	DIN 40040

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