DNV·GL

Certificate No:
TAE00001RR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Contactor

with type designation(s)
DILM250(S), DILM300A(S), DILM400(S), DILM500(S)

Issued to
Eaton Industries GmbH
Bonn Nordrhein-Westfalen, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Rated Voltage (V)	**1000**
Rated Current (A)	**250 to 500**
Frequency (Hz)	**50 / 60**

Issued at **Hamburg** on **2017-02-01**
This Certificate is valid until **2022-01-31**.
DNV GL local station: **Essen**

Approval Engineer: **Harald Amberger**

for **DNV GL**

Duy Nam Le
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Contactor DILM… Ratings				
Operational voltage max U_e	1000V			
Insulation voltage U_i	1000V			
Impulse withstand voltage U_{imp}	8kV			
Frequency	50/60Hz			
	Rated operational current I_e (40°C)			
Types:	DILM250(S)	DILM300A(S)	DILM400(S)	DILM500(S)
AC-1 operation				
At 40°C [A]	429	490	612	857
At 50°C [A]	383	438	548	767
AC-3 operation				
At 230 V [A]	250	300	400	500
At 400 V [A]	250	300	400	500
At 500 V [A]	250	300	400	500
At 690 V [A]	250	300	360	360
At 1000 V [A]	76	95	95	95
AC-4 operation				
At 230 V [A]	200	240	296	360
At 400 V [A]	200	240	296	360
At 500 V [A]	200	240	296	360
At 690 V [A]	200	240	296	296
At 1000 V [A]	76	95	95	95

Coil voltages: 48 - 500V 50/60Hz, 24 - 250VDC

Types of actuation:
- Conventionally via the A1-A2 coil connections
- Directly from the PLC via the A3-A4 connections
- By a low-consumption sensor via A10-A11

Auxiliary contacts ratings: 10A/500VAC

Contactor may be equipped with additional clip-on auxiliary contacts according to Manufacturer's data sheet.

Application/Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A, EMC: A

The produced plastic materials are free of halogen as defined in DIN VDE 0472 part 815.

Type Approval documentation

Tests carried out

IEC 60947-4-1, IEC 60947-5-1, EN 55022, EN 61000 (EMC), cold, dry heat, damp heat, vibration flame retardancy

Marking of product

Acc. IEC 60947-4-1 subclause 6.2, IEC 90647-5-1 subclause 5.5

Name and place of manufacturer

Eaton Elctric Productie s.r.l
Str. Independentei No. 8
RO 437157 Sarbi/ Maramures
Romania

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE