



Certificate No:
TAE00004MZ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Contactor

with type designation(s)
DILH600-800-1200

Issued to

Eaton Industries GmbH
Bonn, Germany

is found to comply with

DNV 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.

Issued at **Hamburg** on **2023-04-24**

This Certificate is valid until **2028-04-23**.

DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Harald Amberger**

Marta Alonso Pontes
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2022-12

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Page 1 of 3

Product description

Contactor DILH... Ratings			
Operational voltage max U_e		1000V	
Insulation voltage U_i		1000V	
Impulse withstand voltage U_{imp}		12kV (8kV DILH1200)	
Frequency		50/60Hz	
	AC-1, Rated operational current Conventional free air thermal current, 3pole, 50-60Hz $I_{th}=I_e$		
Types:	DILH600	DILH800	DILH1200
At 40°C [A]	850	1050	1450
At 50°C [A]	760	940	1315
At 55°C [A]	725	895	1250
At 60°C [A]	695	855	1200
	Breaking capacity		
Up to 500 V [A]	4800	4800	8200
At 660 V 690 V [A]	2000	2000	8200
At 1000 V [A]	1575	1575	5800
	AC-1, Rated operational current Conventional free air thermal current, 1pole I_{th}		
1pole open [A]	1738	2138	3000
Further ratings acc. Manufacturer documentation			

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, cold, dry heat, damp heat, vibration, EMC, flame retardancy

Marking of product

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

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