DNV·GL

Certificate No:
TAE00001MY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
PKZM0-...
PKZM01-...

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)	**690**
Rated Current (A)	**0.1 - 32**
Frequency (Hz)	**50 - 60**

This Certificate is valid until **2022-01-03**.

Issued at **Hamburg** on **2017-01-04**
DNV GL local station: **Essen** for **DNV GL**

Approval Engineer: **Harald Amberger**

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

PKZM0(1) Motor starer and circuit breaker with optional current limitor CL-PKZ0	0,1 up to 32A	(15 settings ranges)
Rated impulse withstand voltage U_{IMP}	6 kV	
Rated insulation voltage U_I	690 V	

Tripping values, rated switching capacity PKZM0(1) ...., motor starter:

Type	Thermal tripping, setting ranges	Short-circuit trip current	Rated conditional short-circuit Iq (kA) acc. to IEC 60947-4-1				
PKZM0-0.16	Ir (A)	Irm (A)	230 (V)	400 (V)	440 (V)	500 (V)	690 (V)
PKZM0-0.16	0,1 - 0,16	2,48	150	150	150	150	150
PKZM0-0,25	0,16 - 0,25	3,86	150	150	150	150	150
PKZM0-0,4	0,25 - 0,4	6,2	150	150	150	150	150
PKZM0-0,63	0,4 - 0,63	9,8	150	150	150	150	150
PKZM0-1	0,63 - 1	15,5	150	150	150	150	150
PKZM0-1,6	1 - 1,6	24,8	150	150	150	150	150
PKZM0-2,5	1,6 - 2,5	38,8	150	150	150	150	5
PKZM0-4	2,5 - 4	62	150	150	150	150	3
PKZM0-6,3	4 - 6,3	98	150	150	150	150	3
PKZM0-10	6,3 - 10	155	150	150	50	42	3
PKZM0-12	8 - 12	186	50	50	50	15	3
PKZM0-16	10 - 16	248	50	50	50	15	3
PKZM0-20	16 - 20	310	50	50	50	10	3
PKZM0-25	20 - 25	386	50	50	50	10	3
PKZM0-32	25 - 32	496	50	50	50	10	3
Further ratings acc. manufacturer documention.							

Auxiliary contacts rated current (A):

AC-15	200/240 V	380/415 V		500 V
	3.5	2		1
DC-13	24V	60V	110V	220V
	2	1.5	1	0.25

Utilisation category: AC-1, AC-3
Accessories: As listed in “Technical Data Sheets”

Application/Limitation

Location classes:
Temperature: B, Humidity: B, Vibration: A, EMC: A, Enclosure: IP20

With Uimp=6kV; Overvoltage category II applies for applications in IT systems > 600 V.

Fuse protection according to Eaton Industires GmbH product information

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Type Approval documentation

Tests carried out

IEC 60947-4-1:2009+A1:2012, cold, heat, damp heat, vibration, flammability, EMC.

Marking of product

According IEC 60947-4-1 subclause 6.1

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