

# TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **45 320 - 16 HH**

Company **Robert Birkenbeul GmbH & Co.KG**

**Auf der Bitze 4  
57577-Hamm/Sieg, GERMANY**

Product Description **6APE.. - series, 7APE.. - series, 8APE.. - series  
Sizes 71M up to 315L**

Type **Asynchronous Low-Voltage Motors**

Environmental Category **H**

Technical Data /  
Range of Application **Places of manufacturing:  
97616 Bad Neustadt, Germany  
789 85 Mohelnice, Czech Republic  
744 01 Frenstat, Czech Republic**

**Rated voltage: 200 V up to 690 V  
Rated power: S1 0,03 kW up to 378 kW  
Synchronous speed: 750 1/min up to 3600 1/min  
Rated frequency: 50 Hz, 60 Hz, conv. Operation <= 690V  
Ambient temperature: 45° C or 50 °C  
Thermal class: 155 (F), 180 (H)  
Degree of protection: IP 55, IP 56, IP 65  
No. of poles: 2, 4, 6, 8 and pole-changing types  
Spec. Model: For marine applications / environments  
On request optional with built-in units like  
e.g. brakes, external fans, encoders**

Test Standard **IEC 60034-1:2010-02, IEC 92-301-3rd ed. 1980 + Amd 1-1994 + Amd 2-1995  
GL Test Requirements for Electrical Machinery (VI-7-6), edition 1999**

Documents **Birkenbeul-Catalogues: Motor line IE2-28.04.2016, Motor line IE3-03.03.2016  
Operating instruction for motor types 1TZ9.., 6AP.., 7AP.., 8AP.., 9AP.. / 02-  
2016  
Relevant documents, drawings, test reports are listed on page 2**

Remarks **This certificate is issued on the basis of GL Guidelines for the Performance of  
Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.**

Valid until **2020-05-18**

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File No. **I.G.03**

**Hamburg, 2016-05-31**

Type Approval Symbol



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## Motor description:

Type: 6APE... Aluminium motor, self-ventilated or separate-ventilated  
Aluminium motor, non-ventilated (without fan)  
Frame sizes 71 to 160, IE2

Type: 7APE... Cast iron motor, self-ventilated or separate-ventilated  
Cast iron motor, non-ventilated (without fan)  
Frame sizes 180 to 315, IE2

Type: 8APE... Cast iron and aluminium motor, self-ventilated or separate-ventilated  
Cast iron and aluminium motor, non-ventilated (without fan)  
Frame sizes 80 to 315, IE3

## Documents :

Datasheets Motor line IE2, part 2 – 6APE, 7APE... dated 28.04.2016  
Datasheets Motor line IE3, part 2 – 8APE... dated 03.03.2016

Drawing "8APE250M-4-IE3-IMB3", motor dimension, dated 17.11.2015  
Drawing "8APE280S-4-IE3-IMB3", motor dimension, dated 17.11.2015  
.. Drawing "Normwelle 8APE250M-4IE3" dated 26.04.2016  
.. Drawing "Normwelle 8APE250M-4IE3" dated 26.04.2016  
.. Drawing "Normwelle 8APE280M-4IE3" dated 25.04.2016

Part list "Stückliste 8APE250M-4" dated 26.04.2016  
Part list "Stückliste 8APE280S-4-IE3-IMB3", dated 26.04.2016

## Test reports:

3F Asynchronmotor 8APE280S-4, 75 kW, DNV-GL Prfg 2, dated 28.04.2016  
3F Asynchronmotor 8APE250M-4, 55 kW, DNV-GL Prfg 3, dated 28.04.2016  
3F Asynchronmotor 8APE280S-4, 75 kW, DNV-GL Prfg 4, dated 26.04.2016

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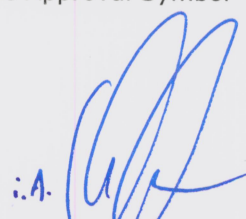
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