

Warning: out of scale drawing - It may not exactly represent the product. The exact dimensions can be drawn from the 2D drawing or the 3D model to download.

DELPHI 160MA-2 / kW 11 / Hz 50 400/690V / B5 /

Date: 01/10/2021 12:15

[www.motive.it/configuratore.php](http://www.motive.it/configuratore.php)

Scale: Out

This drawing is property of MOTIVE s.r.l.



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# DATA-SHEET

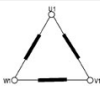
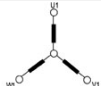
## PRODUCT DESCRIPTION



|               |                |
|---------------|----------------|
| Manufacturer  | Motive s.r.l.  |
| Motor Type    | DELPHI 160MA-2 |
| Motor code    | 160MA-2B5*     |
| Version       | standard       |
| # poles:      | 2              |
| Configuration | B5             |

|                                 |                 |
|---------------------------------|-----------------|
| Max. Altitude                   | 1000 m a.s.l.   |
| Temp. Rise $\Delta T$           | 56 °C           |
| Features                        | cast iron motor |
| Tropicalized winding (standard) |                 |
| Weight                          | 110 Kg          |
| Packing type                    | Wooden crate    |
| Packing dimensions WxHxD mm     | 700x410x500     |
| Efficiency class                | IE2             |

|                             |       |       |       |
|-----------------------------|-------|-------|-------|
| Load data                   | 100%  | 75%   | 50%   |
| Efficiency $\eta\%$ at 50Hz | 89.50 | 89.30 | 87.30 |
| Power factor $\cos\phi$     | 0.90  | 0.87  | 0.81  |

| Hz                  | 50  |  |
|---------------------|---|--|
| Connection          |  |  |
| Volt                | 400V  | 690V   |
| Power               | kW 11   |  |
|                     | Hp 15   |  |
| Speed               | rpm 2932  |  |
| rated torque Cn     | Nm 35.83  |  |
| Rated current In    | A 19.82   | A 11.49  |
| Starting Current Is | A 127.63  | A 73.99  |
| Starting Torque Cs  | Nm 78.4   |  |
| Max. Torque Cmax    | Nm 56.1   |  |

|  |                       |
|--|-----------------------|
| Sound pressure level (Lwa)                               | 86 [dB]               |
| Rotor Inertia  | 0.04 Kgm <sup>2</sup> |
| Bearing DE   | 6309 ZZ-C3            |
| Bearing NDE  | 6309 ZZ-C3            |
| The PTC thermistors in the winding are included standard |                       |

|            |       |
|------------|-------|
| Protection | IP 55 |
| Is/In      | 6.40  |
| Cs/Cn      | 2.20  |
| Cmax/Cn    | 1.60  |



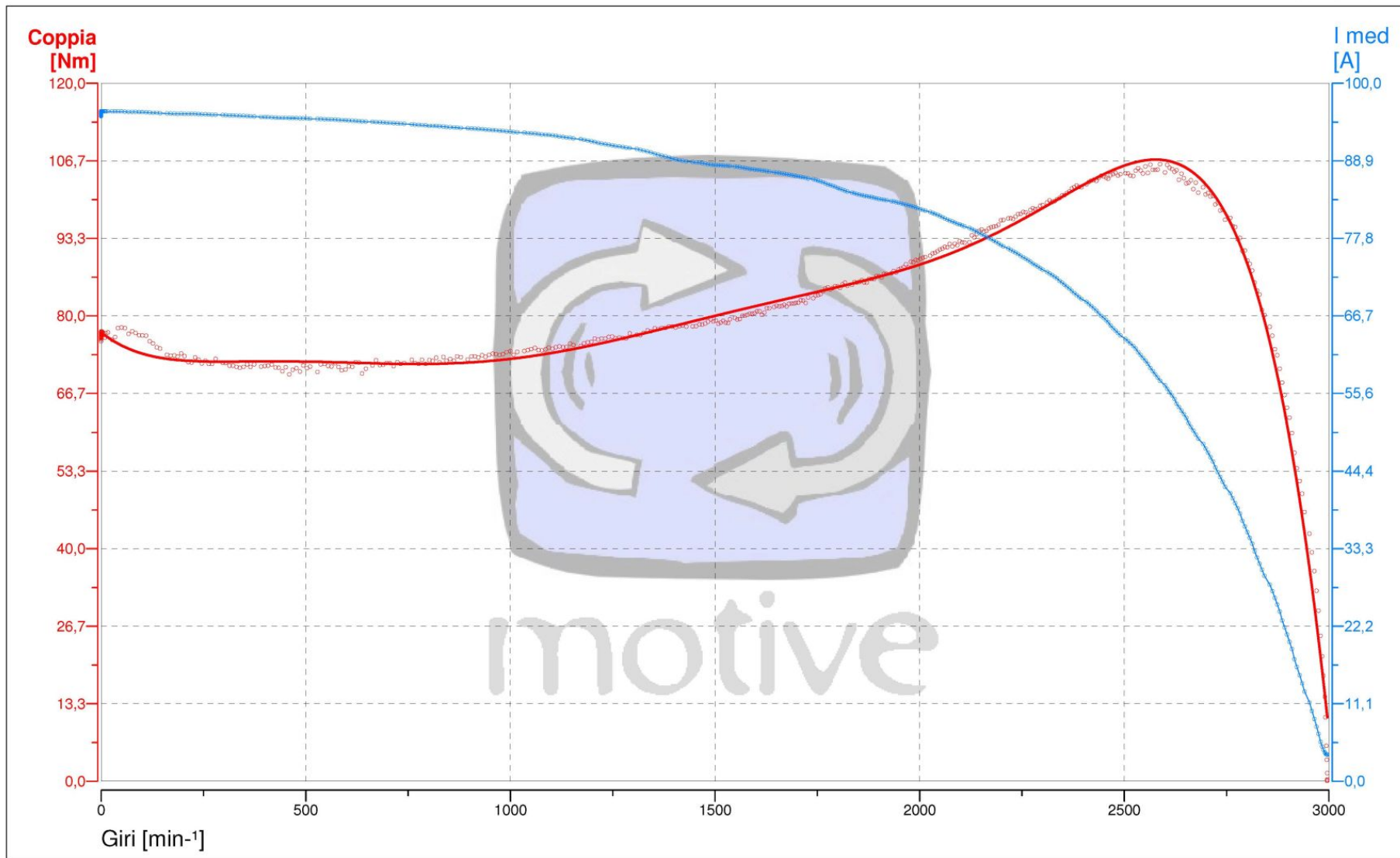
# curva coppia/assorbimento

04/09/2009

torque and current curve

Tipo motore : 160MA-2      V Nom. [V] : 400      Frequenza [Hz] : 50      P Nom.[KW] : 11      Giri [min??] : 2941

File Prova : C:\Elektro\Prove\Trifase\160\ 160MA-2 B3 0807G01200 04SET09.TXT



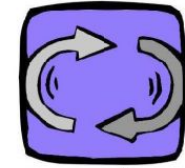
Note : Note: PROVA MOTORE



# RENDIMENTO

04/09/2009

## EFFICIENCY



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Tipo motore : 160MA-2

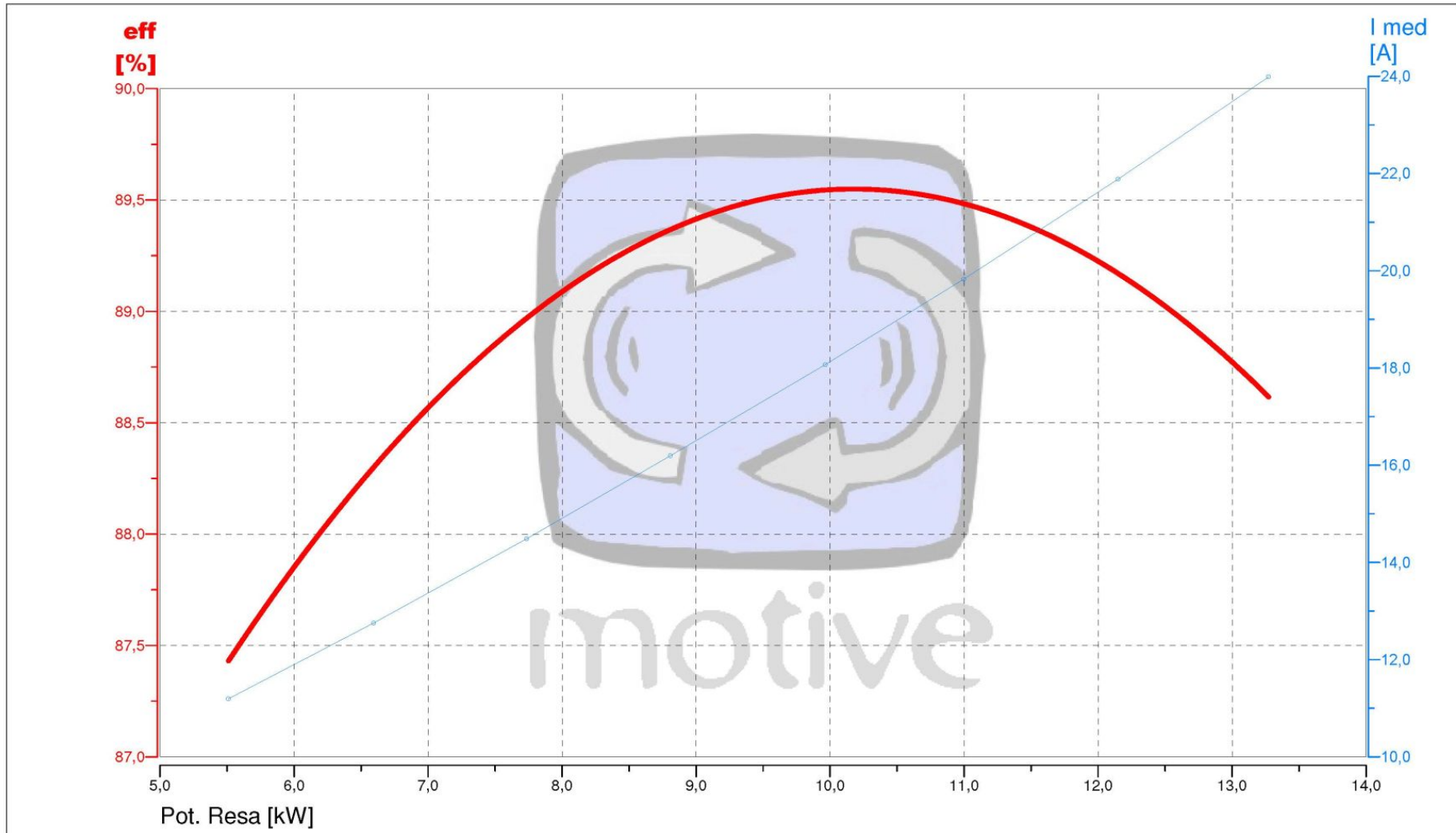
V Nom. [V] : 400

Frequenza [Hz] : 50

P Nom.[KW] : 11

Giri [min??] : 2941

File Prova : C:\Elektro\Prove\Trifase\160\ 160MA-2 B3 0807G01200 04SET09.TXT



Note : Note: PROVA MOTORE



# riscaldamento

04/09/2009

heating

Tipo motore : 160MA-2

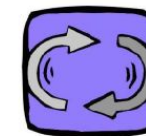
V Nom. [V] : 400

Frequenza [Hz] : 50

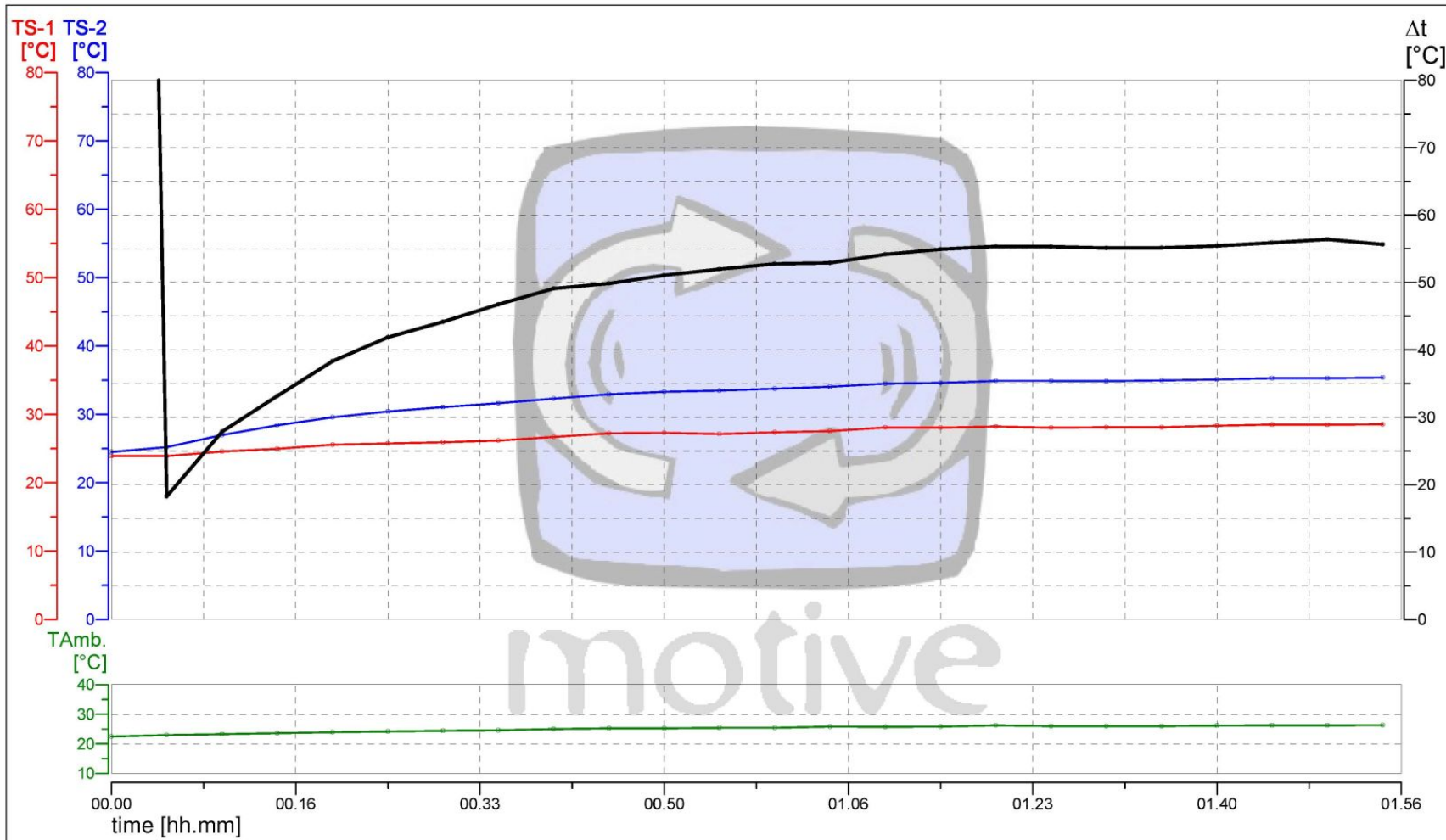
P Nom.[KW] : 11

Giri [min??] : 2941

File Prova : C:\Elektro\Prove\Trifase\160\ 160MA-2 B3 0807G01200 04SET09.TXT



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Note : Note: PROVA MOTORE





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## Conformity Declaration

Motive s.r.l. whose Head Office is situated in Castenedolo (BS) - Italy

declares, under its own exclusive responsibility,

that its whole range of

**asynchronous electric motors of the series "Delphi" and "DELFIRE"**

is conform to the following international norms (last issue):

- EN60034-1** Rotating Electrical Machines - Part 1: Rating and performance
- EN60034-6** Rotating Electrical Machines - Part 6: Methods of cooling (IC code)
- EN60034-7** Rotating Electrical Machines - Part 7: Classification of Types of Construction, Mounting Arrangements and Terminal Box Position (IM Code)
- EN60034-8** Rotating electrical machines - Part 8: Terminal markings and direction of rotation
- EN60034-25** Rotating electrical machines - Part 25: Guidance for the design and performance of a.c. motors specifically designed for converter supply
- EN60034-2-1** Rotating electrical machines. Standard methods for determining losses and efficiency from tests
- EN60034-30-1** Rotating electrical machines - Part 30: Efficiency classes of single-speed, three-phase, cage-induction motors
- EN50347** General purpose three-phase induction motors having standard dimensions and outputs. Frame numbers 56 to 315 and flange numbers 65 to 740
- EN61000-6-4** Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 4: Emission standard for industrial environments
- IEC 72-1** Dimensions and output series for rotating electrical machines Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080

following the provisions of the Directives

**Low Voltage (LVD) 14/35/EEC,**  
**EMC Electromagnetic Compatibility (EMC) 14/30/EEC**  
**Eco-design Directive for Energy-related Products (ErP) 09/125/EEC**

1 January 2016

The Legal Representative: *Giorgia Bosio*

N. REA 422301  
Cod. Fisc. e P. IVA 03580280174





Milan, September 30, 2008

Attention to Company

Motive S.r.l.  
Via Artigianale, 110/112  
25010 Montirone (BS) - ITALY

Dear Mr Giorgio Bosio,

Herewith I confirm that Motive's laboratory, evaluated according to the requirements of standard IEC/ISO 17025, is found in compliance with main requirements of the above mentioned standard. The following motors were tested according to standard IEC 60034-2 with supervision of IMQ qualified personnel.

Model designation    rated power (kW)

|              |      |
|--------------|------|
| 90L-4 Eff1   | 1,5  |
| 100LB-4 Eff1 | 3    |
| 112M-4 Eff1  | 4    |
| 132M-4 Eff1  | 7,5  |
| 90L-2 Eff1   | 2,2  |
| 112M-2 Eff1  | 4    |
| 132SB-2 Eff1 | 7,5  |
| 112M-6 Eff1  | 2,2  |
| 132S-6 Eff1  | 3    |
| 100LA-8 Eff1 | 0,75 |
| 132M-8 Eff1  | 3    |

With Regards

  
Igor Blassi

Household Appliances Laboratory Manager  
Tel. (+39) 025073484  
igor.blassi@imq.it

IMQ S.p.A.  
Via Quintilano 43  
20138 Milano  
Tel. (+39) 0250731  
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## TYPE APPROVAL CERTIFICATE

N. ELE391318CS001

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system.

|                            |   |
|----------------------------|---|
| <b>Description</b>         | Asynchronous three-phases electric motors                               |
| <b>Type</b>                | DELPHI Series   |
| <b>Applicant</b>           | Motive S.r.l.<br>Via Le Ghiselle, 20<br>25014 Castenedolo (BS)<br>Italy |
| <b>Manufacturing Place</b> | Motive S.r.l.<br>Via Le Ghiselle, 20<br>25014 Castenedolo (BS)<br>Italy |
| <b>Testing Standards</b>   | RINA Rules for the Classification of Ships - Part C, Ch.2, Sec. 4       |

Issued in Genova on January 21, 2019

This certificate is valid until January 21, 2024



RINA Services S.p.A.





ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ  
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ



Заявитель Общество с ограниченной ответственностью "ПРИВОД ГРАНД РЕДУКТОР"

Место нахождения и адрес места осуществления деятельности: Российская Федерация, Смоленская область, 214004, город Смоленск, улица Багратиона, дом 4, офис 46, основной государственный регистрационный номер: 1166733076608, номер телефона: +79203158381, адрес электронной почты: privodgrand@gmail.com

в лице Директора Шелеста Александра Иосифовича

заявляет, что Электродвигатели (мотор-редукторы) асинхронные трехфазные общепромышленного назначения, рабочее напряжение 220/380В. Модели по приложению № 1, количество листов: 2

изготовитель "Motive srl". Место нахождения и адрес места осуществления деятельности по изготовлению продукции: Via Le Ghiselle, 20 25014 Castenedolo (BS), Италия.

Продукция изготовлена в соответствии с Директивой 2014/35/EU "Низковольтное оборудование". Код ТН ВЭД ЕАЭС 8501. Серийный выпуск

соответствует требованиям

ТР ТС 004/2011 "О безопасности низковольтного оборудования", утвержден Решением Комиссии Таможенного союза от 16 августа 2011 года № 768

Декларация о соответствии принята на основании

Протокола испытаний № 199-04/2020 от 14.04.2020 года, выданного Испытательной лабораторией Общество с ограниченной ответственностью Инновационный центр «Колибри», аттестат аккредитации РОСС RU.31857.04ИЛС0.00063, сроком действия до 17.06.2022 года.

Схема декларирования 1д

Дополнительная информация

ГОСТ 16264.1-2016 Двигатели асинхронные. Часть 1. Общие технические условия. Срок хранения (службы, годности) указан в прилагаемой к продукции товаросопроводительной и/или эксплуатационной документации.

Декларация о соответствии действительна с даты регистрации по 13.04.2025 включительно



(подпись)

М.П.

Шелест Александр Иосифович

(Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-IT.HX37.B.02083/20

Дата регистрации декларации о соответствии: 14.04.2020

KINGDOM OF SAUDI ARABIA

Product Conformity Programme

Statement for Registration

PCP Ref.no: KSA R-205239

Issued to:

Motive Srl  
Via Artigianale 110/112  
25010 Montirone (BS)  
Italy

Product:

II-06 MOTORS Incl. GEARED MOTORS/DRIVES

Model/Type:

See appendix (1 page/s)

Applicable standards/references:

IEC 60034, IEC 72

Intertek

Issued by:

Regional Licensing Centre  
Europe, Middle East and Africa  
Intertek Semko AB  
06 November 2009

*Pia Østgaard*  
Pia Østgaard  
Manager

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