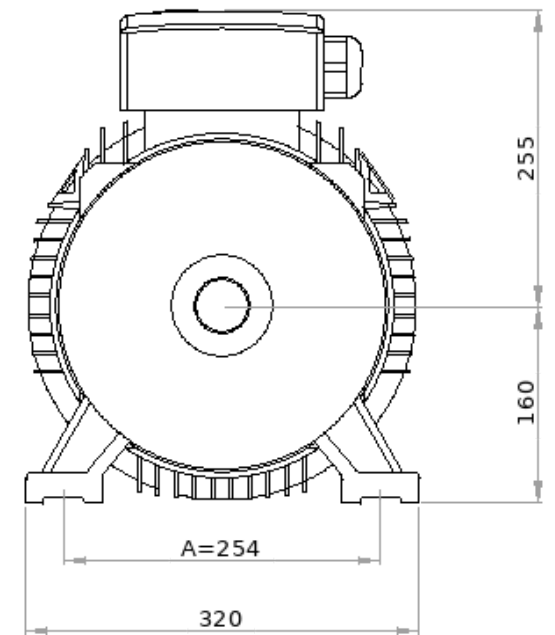
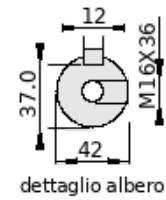
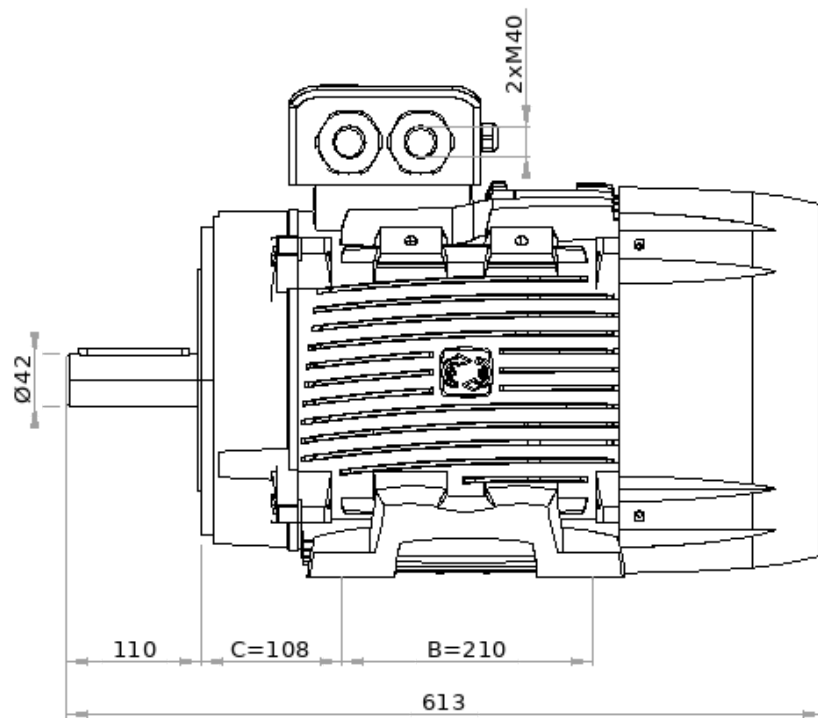




Warning: out of scale drawing - It may not exactly represent the product. The exact dimensions can be drawn from the 2D drawing or the 3D model to download.

DELPHI 160MB-8 | 5.5 kW | 50 Hz | 400/690V | IE3 | B3



This drawing is property of MOTIVE s.r.l.  
Via Le Ghiselle, 20  
25014 Castenedolo (BS) Italy  
Tel. +39 030 2677087 - Web: [www.motive.it](http://www.motive.it)



Motive s.r.l.  
Via Le Ghiselle, 20  
25014 Castenedolo (BS), Italy  
Tel: +39 030 2677087  
motive@motive.it - www.motive.it

# TECHNICAL DATASHEET

## PRODUCT DESCRIPTION



|               |                      |
|---------------|----------------------|
| Manufacturer  | Motive s.r.l.        |
| Motor type    | DELPHI 160MB-8       |
| Motor code    | <b>160MB-8B3*IE3</b> |
| Version       | Standard             |
| Poles #       | 8                    |
| Configuration | B3                   |

|                              |                           |
|------------------------------|---------------------------|
| Max altitude                 | 1000m a.s.l.              |
| Temperature delta $\Delta T$ | 57 °C                     |
| Features                     | cast iron motor           |
| Tropicalized winding         | ✓ standard                |
| Weight                       | 120 Kg                    |
| Packing type                 | packing_type.wooden crate |
| Packing dimensions WxHxD mm  | 700x410x500               |
| Efficiency class at 50 Hz    | IE3                       |
| Protection                   | IP55                      |

|                                  |       |       |       |
|----------------------------------|-------|-------|-------|
| Load data                        | 100%  | 75%   | 50%   |
| Efficiency $\eta\%$ at 50 Hz     | 86.5  | 87    | 85.1  |
| Power factor $\cos\phi$ at 50 Hz | 0.728 | 0.649 | 0.516 |

|                     |            |                                                                                   |                                                                                    |
|---------------------|------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                     | Hz         | 50                                                                                |                                                                                    |
|                     | Connection |  |  |
|                     | Volt       | 400V                                                                              | 690V                                                                               |
| Power               | kW         | 5.5                                                                               |                                                                                    |
|                     | Hp         | 7.5                                                                               |                                                                                    |
| Speed               | rpm        | 724                                                                               |                                                                                    |
| Nominal torque Cn   | Nm         | 72.77                                                                             |                                                                                    |
| Working current In  | A          | 12.49                                                                             | 12.49                                                                              |
| Starting current Is | A          | 63.70                                                                             | 63.7                                                                               |
| Starting torque Cs  | Nm         | 142.87                                                                            |                                                                                    |
| Max torque Cmax     | Nm         | 190.82                                                                            |                                                                                    |

|                                                |                          |
|------------------------------------------------|--------------------------|
| Max frequency for inverter                     | 150 Hz                   |
| Noise level (Lwa)                              | 68 [dB]                  |
| Rotor inertia                                  | 0.08209 Kgm <sup>2</sup> |
| Bearing DE                                     | 6309-ZZC3                |
| Bearing NDE                                    | 6309-ZZC3                |
| already installed as standard, PTC thermistors |                          |
| Servizio                                       | S1 continuous duty       |
| Ambient temperature                            | -15°C ÷ +50°C            |

|                  |      |
|------------------|------|
| Insulation class | F    |
| Is/In            | 5.20 |
| Cs/Cn            | 1.9  |
| Cmax/Cn          | 2.6  |





Motive s.r.l.  
Via Le Ghiselle, 20  
25014 Castenedolo (BS), Italy  
Tel: +39 030 2677087  
motive@motive.it - www.motive.it

# TECHNICAL DATASHEET

## SPECIAL EXECUTIONS



No special executions selected



# Curve Coppia / Assorbimento

Torque / Current Curves

Tipo motore : 160MB-8 IE3

V Nom. [V] : 400

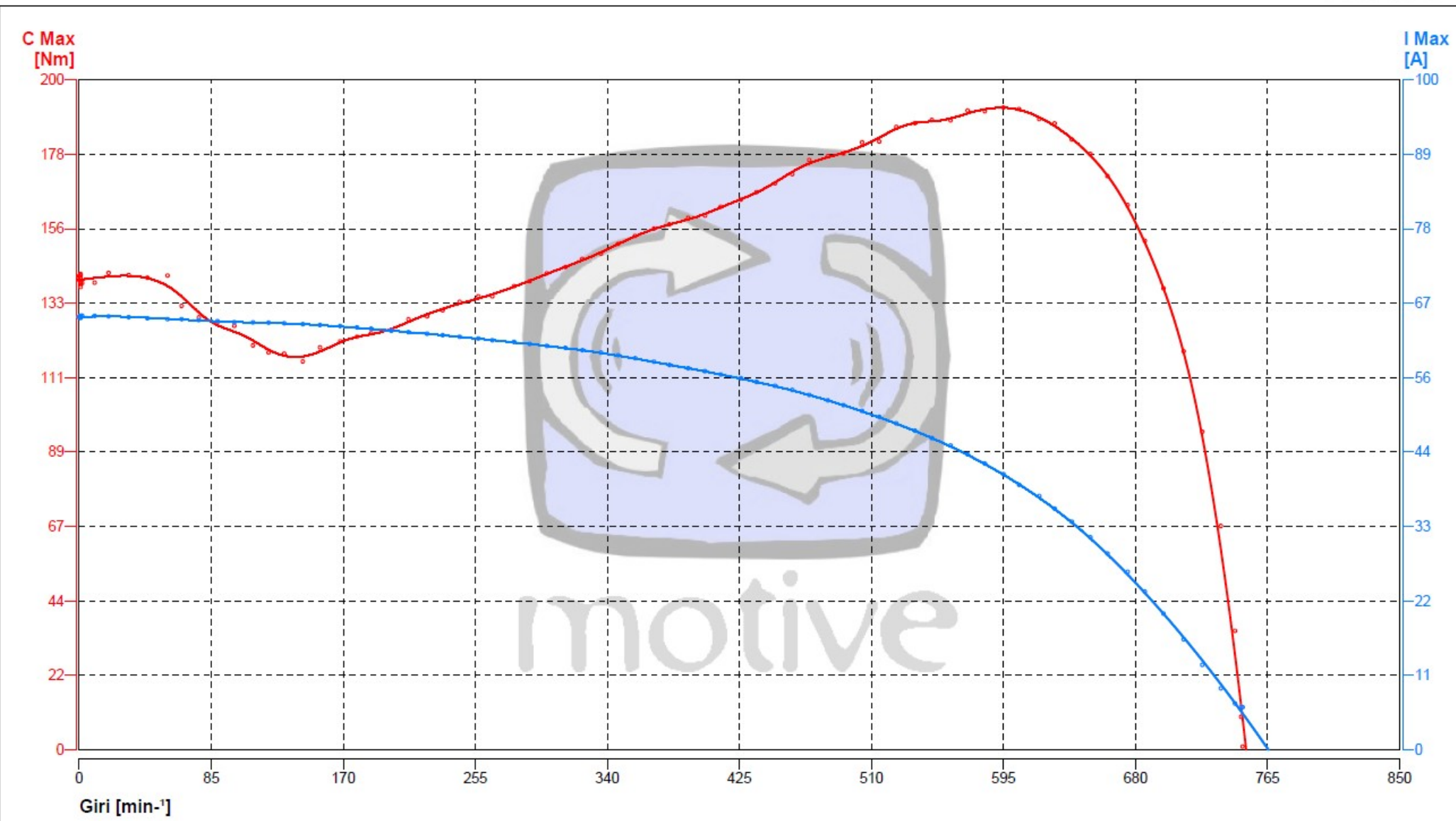
Frequenza [Hz] : 50

P Nom. [KW] : 5,50

Giri [min<sup>-1</sup>] : 724

File Prova : 160MB-8 IE3

Data Prova : 19/05/2025



Note :



# Rendimento

Efficiency

Tipo motore : 160MB-8 IE3

V Nom. [V] : 400

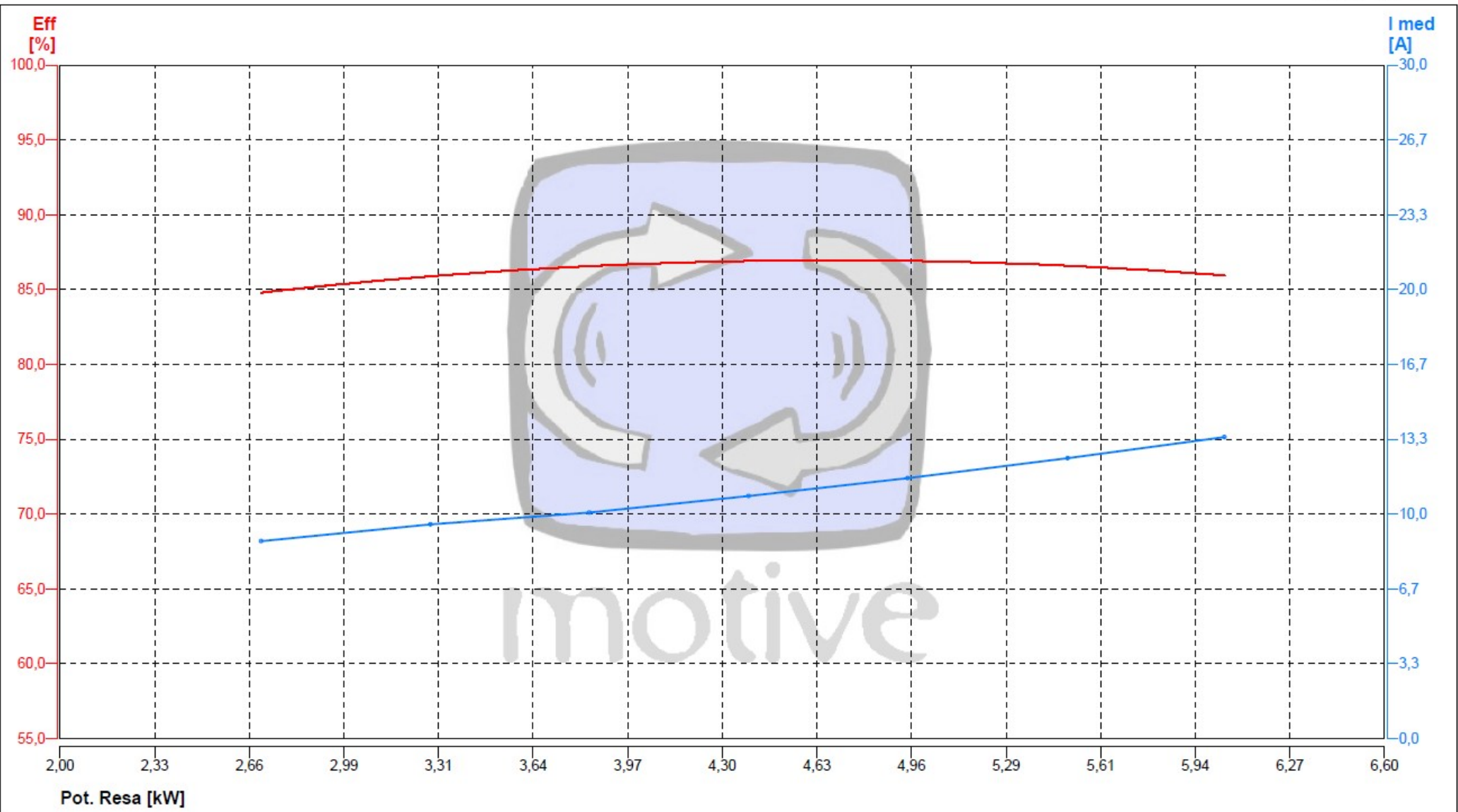
Frequenza [Hz] : 50

P Nom. [KW] : 5,50

Giri [min<sup>-1</sup>] : 724

File Prova : 160MB-8 IE3

Data Prova : 19/05/2025



Note :



# Riscaldamento

Heating



Tipo motore : 160MB-8 IE3

V Nom. [V] : 400

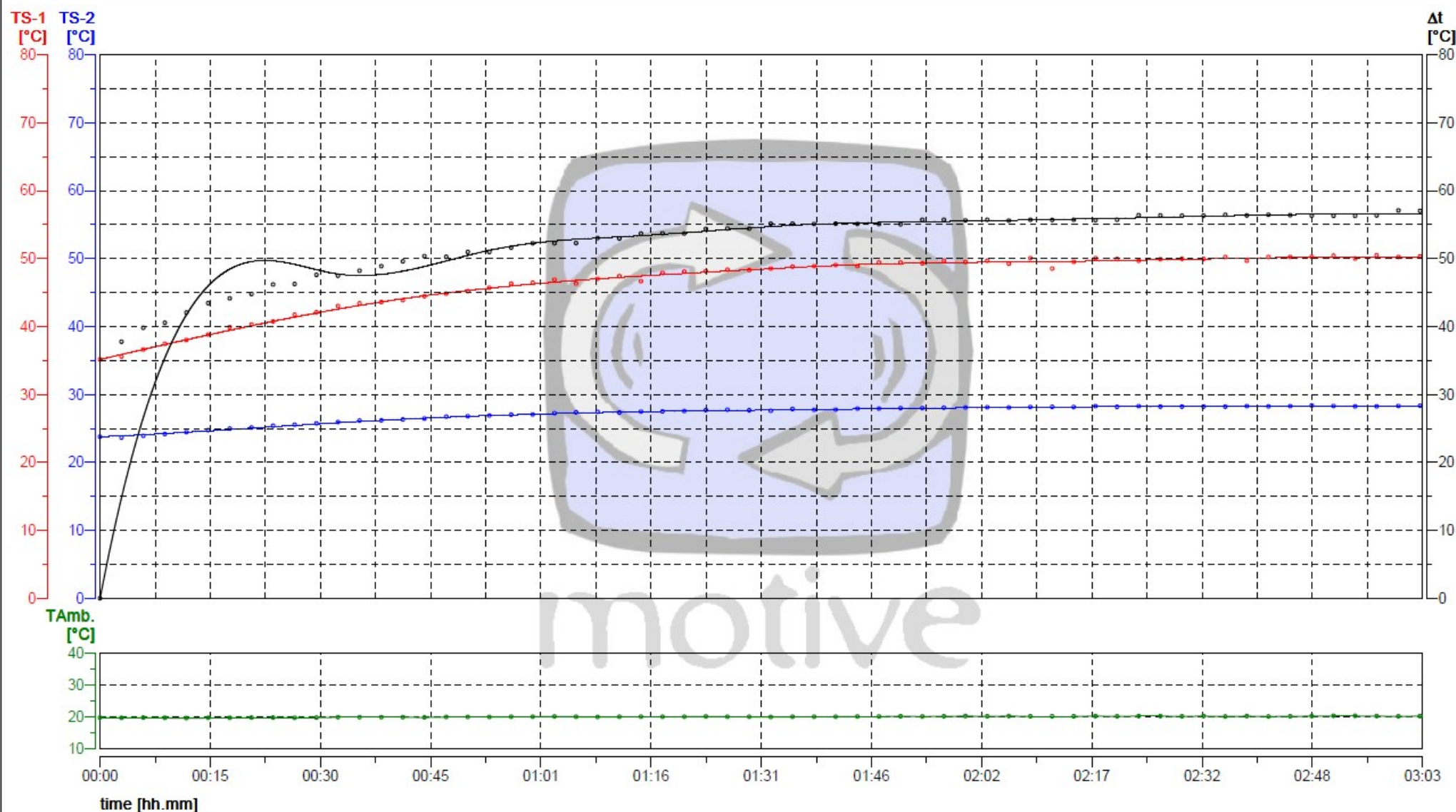
Frequenza [Hz] : 50

P Nom. [KW] : 5,50

Giri [min-¹] : 724

File Prova : 160MB-8 IE3

Data Prova : 19/05/2025



Note :





Motive s.r.l.  
Via Le Ghiselle, 20  
25014 Castenedolo (BS)  
Tel.: +39 030 2677087  
Fax: +39 030 2677125  
motive@e-motive.it



## 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: *Giorgio Bosio*

N. REA 422361  
Cod. Fisc. e P. IVA 03580280174

CERTIFICAT

CERTIFICADO

CERTИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT

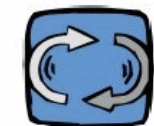


# CERTIFICATO

Nr. 50 100 1185 Rev.011

SI ATTESTA CHE / THIS IS TO CERTIFY THAT

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI  
THE QUALITY MANAGEMENT SYSTEM OF



**MOTIVE S.r.l.**

SEDE LEGALE E OPERATIVA:  
REGISTERED OFFICE AND OPERATIONAL SITE:

**VIA LE GHISELLE 20**  
**IT - 25014 CASTENEDOLO (BS)**

E CONFORME AI REQUISITI DELLA NORMA  
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

**UNI EN ISO 9001:2015**

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE  
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

**Progettazione e fabbricazione di motori elettrici, riduttori meccanici e inverter (IAF 18, 19)**

**Design and manufacture of electrical motors, mechanical gearboxes and variable speed drives (IAF 18, 19)**

Per l'Organismo di Certificazione  
For the Certification Body  
**TUV Italia S.r.l.**

Validità / Validity

Dal / From: 2022-03-03

Al / To: 2025-03-02



SGQ N° 049A

Membro degli Accordi di Mutuo Riconoscimento  
EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual  
Recognition Agreements

*Francesco Scariata*  
**Francesco Scariata**  
Direttore Divisione Business Assurance  
Business Assurance Division Manager

Data emissione /  
Issuing Date

2022-02-28

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2001-07-20

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RISERVA COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE."  
"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

TUV Italia • Gruppo TÜV SÜD • Via Carducci 126, Pal. 23 • 20098 Sesto San Giovanni (MI) • Italia • [www.tuvsud.com/it](http://www.tuvsud.com/it)



# NOTIFICATION



- [1] **PRODUCT QUALITY ASSURANCE NOTIFICATION**
- [2] **Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 2014/34/EU**
- [3] Notification number:  
**TÜV IT 21 ATEX 021 Q**
- [4] Equipment or Component as listed: Electric Motor, Frequency Converter  
Protection concepts: "e" and "t"
- [5] Manufacturer: MOTIVE S.r.l.  
Via Le Ghiselle, 20  
I-25014 Castenedolo (BS) - ITALIA
- [6] Sites audited: identical
- [7] TÜV Italia, notified body no. 0948 in accordance with the Council Directive 2014/34/EU of 26 February 2014, notifies that the manufacturer has a product quality assurance system which complies to Annex VII of the Directive.
- [8] This notification is based on audit report no. R 21 EX 015 issued on 02.03.2021  
This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex VII.  
Results of periodical re-assessment of the quality system are a part of this notification.
- [9] This notification is valid until <01.03.2024> and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.
- [10] According to Article 16 paragraph 3 of the Directive 2014/34/EU the CE marking shall be followed by the identification no. 0948 identifying the notified body involved in the production control stage.

This notification may only be reproduced in its entirety and without any change.

First issue date: 26.03.2021  
Issue date: 26.03.2021



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento  
EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual  
Recognition Agreements



TÜV Italia S.r.l.  
Notified Body N° 0948

Alberto Carelli

Industry Service - Real Estate & Infrastructure  
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722223318

page 1 of 2

PEX-01-M011\_10 del 07/08/2018

TÜV Italia • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • [www.tuvsud.com/it](http://www.tuvsud.com/it)



IMQ S.p.A.  
I-20138 Milano - via Quintilano, 43  
tel. 0250731 (r.a.) - fax 0250991500  
e-mail: [info@imq.it](mailto:info@imq.it) - [www.imq.it](http://www.imq.it)

Pia Milano 1595884  
Registro Imprese MI 12898410159  
C.F./P.I. 12898410159  
Capitale Sociale € 4.000.000

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

With Regards

Igor Balassi  
Household Appliances Laboratory Manager  
Tel. (+39) 025073484  
[igor.balassi@imq.it](mailto:igor.balassi@imq.it)

IMQ S.p.A.  
Via Quintilano 43  
20138 Milano  
Tel. (+39) 0250731  
[www.imq.it](http://www.imq.it) - [info@imq.it](mailto:info@imq.it)



TYPE APPROVAL CERTIFICATE  
No. ELE012624CS

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

|                      |                                                                   |
|----------------------|-------------------------------------------------------------------|
| Description          | Electric motor asynchronous three-phases                          |
| Type                 | DELPHI Series                                                     |
| Applicant            | MOTIVE SRL<br>VIA GHISELLE, 20<br>25014 Castenedolo (BS)<br>ITALY |
| Manufacturer         | MOTIVE SRL                                                        |
| Place of manufacture | VIA GHISELLE, 20<br>25014 Castenedolo (BS)<br>ITALY               |
| Reference standards  | RINA Rules, Part C, Chap. 2, Sect. 4                              |

Issued in Genoa on April 23, 2024. This Certificate is valid until April 22, 2029

RINA Services S.p.A.  
Luigi Benedetti

This certificate consists of this page and 1 enclosure

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel +39 010 53851  
Fax +39 010 5351000



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ  
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ



Заявитель ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "ПРИВОД ГРАНД РЕДУКТОР"  
Место нахождения (адрес юридического лица) и адрес места осуществления деятельности: 214004, Россия, Смоленская область, город Смоленск, улица Багратиона, дом 4, офис 46  
Основной государственный регистрационный номер 1166733076608.  
Телефон: +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 в ассортименте, согласно приложению № 1 на 1 листе.

Изготовитель "Motive srl"  
Место нахождения (адрес юридического лица) и адрес места осуществления деятельности по изготовлению продукции: Италия, Via Le Ghiselle, 20 25014 Castenedolo (BS)  
Продукция изготовлена в соответствии с Директивой 2014/35/EU "Низковольтное оборудование".  
Код (коды) ТН ВЭД ЕАЭС: 8501510001, 8501522001, 8501523000, 8501529002, 8501529009, 8501538100  
Серийный выпуск  
соответствует требованиям  
Технического регламента Таможенного союза "О безопасности низковольтного оборудования" (ТР ТС 004/2011)

Декларация о соответствии принята на основании  
Протокола испытаний № 00310/2025-0001 от 03.10.2025 года, выданного Испытательной лабораторией ООО «СТРОЙТЕСТ КОНСАЛТИНГ» (регистрационный номер аттестата аккредитации РОСС RU.32067.04.0ЛГ0.ИЛ.002)

Схема декларирования соответствия: 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 соответствия распространяется на продукцию, изготовленную с даты изготовления отобранных образцов (проб) продукции, прошедших исследования (испытания) и измерения, указанную в акте(ах) отбора.

Декларация о соответствии действительна с даты регистрации по 07.10.2030 включительно.



Шелест Александр Иосифович

(Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-ИТ.РА09.В.05645/25

Дата регистрации декларации о соответствии: 08.10.2025



## 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 Ostgaard*  
Pia Ostgaard  
Manager

This Statement for Registration is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Statement for Registration. Only the Client is authorized to permit copying or distribution of this Statement for Registration and then only in its entirety. Any use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.