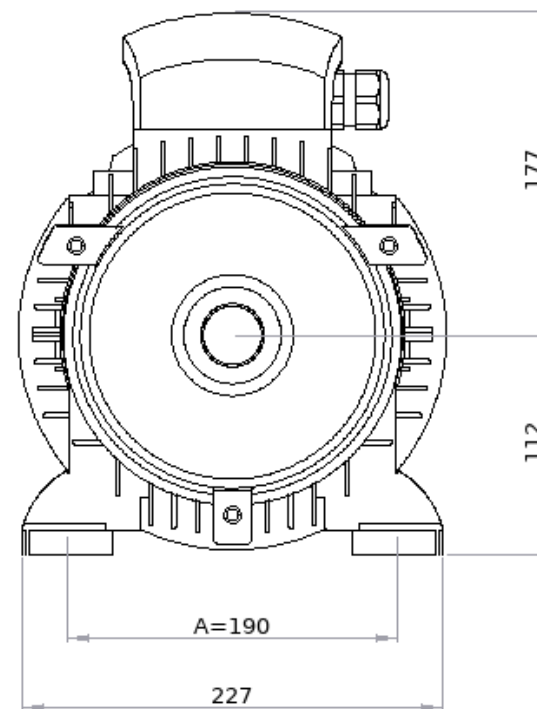
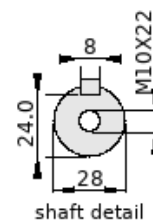
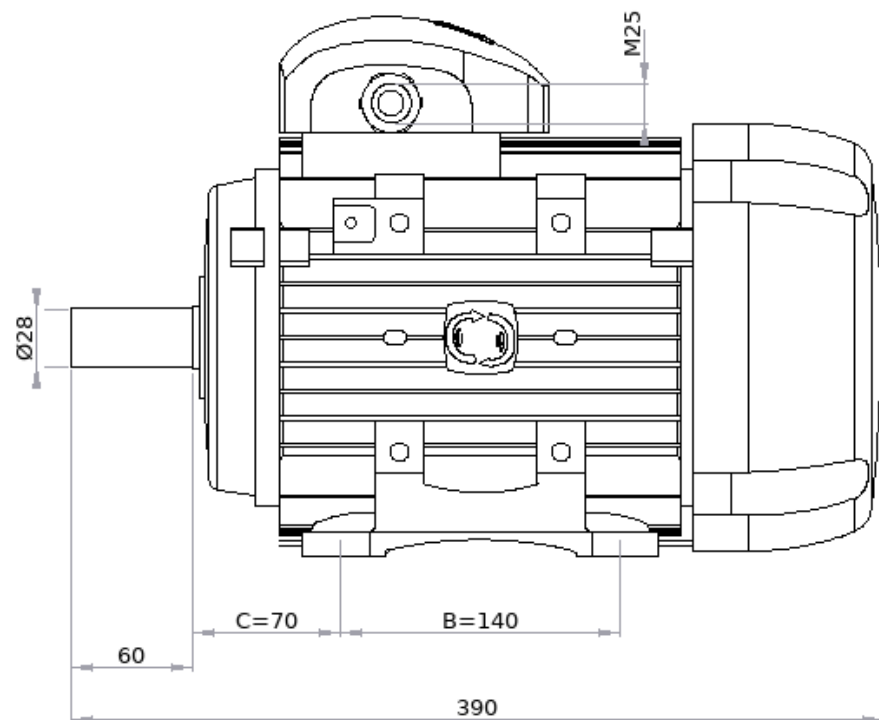




Warning: out of scale drawing - It may not exactly represent the product. The exact dimensions can be drawn from the 2D drawing or the 3D model to download.

DELPHI 112M-2 / kW 4 / Hz 50 230/400V / B3 /

Date: 23/04/2021 10:37

www.motive.it/configuratore.php

Scale: Out

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



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



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

DATA-SHEET

PRODUCT DESCRIPTION

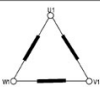
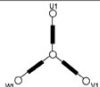


Manufacturer	Motive s.r.l.
Motor Type	DELPHI 112M-2
Motor code	112M-2B3
Version	standard
# poles:	2
Configuration	B3

Max. Altitude	1000 m a.s.l.
Temp. Rise ΔT	72 °C
Features	Aluminum motor
Tropicalized winding (standard)	
Weight	28 Kg
Efficiency class	IE2
Protection	IP 65

Load data	100%	75%	50%
Efficiency $\eta\%$ at 50Hz	85.80	86.80	85.90
Power factor $\cos\phi$	0.90	0.86	0.77

Sound pressure level (Lwa)	77 [dB]
Rotor Inertia	0.01 Kg m^2
Bearing DE	6206 ZZ
Bearing NDE	6206 ZZ

Hz	50	
Connection		
Volt	230V	400V
Power	4	
	kW	
	5.5	
	Hp	
Speed	2887	
	rpm	
rated torque Cn	13.23	
	Nm	
Rated current In	A	13.03
Starting Current Is	A	80.49
Starting Torque Cs	Nm	28.7
Max. Torque Cmax	Nm	41

Protection	IP 65
Is/In	6.20
Cs/Cn	2.20
Cmax/Cn	3.10





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

DATA-SHEET

CONFIGURATIONS



ATEX options

ATEX II2G Ex eb IIC T4 Gb + ATEX II2D Ex tb IIIC
T135°C Db (ATEX version zone 1-2-21 and 22)

[ESPMEXII2GD112](#)



curva coppia/assorbimento

torque and current curve

28/01/2009



Tipo motore : 112M-2

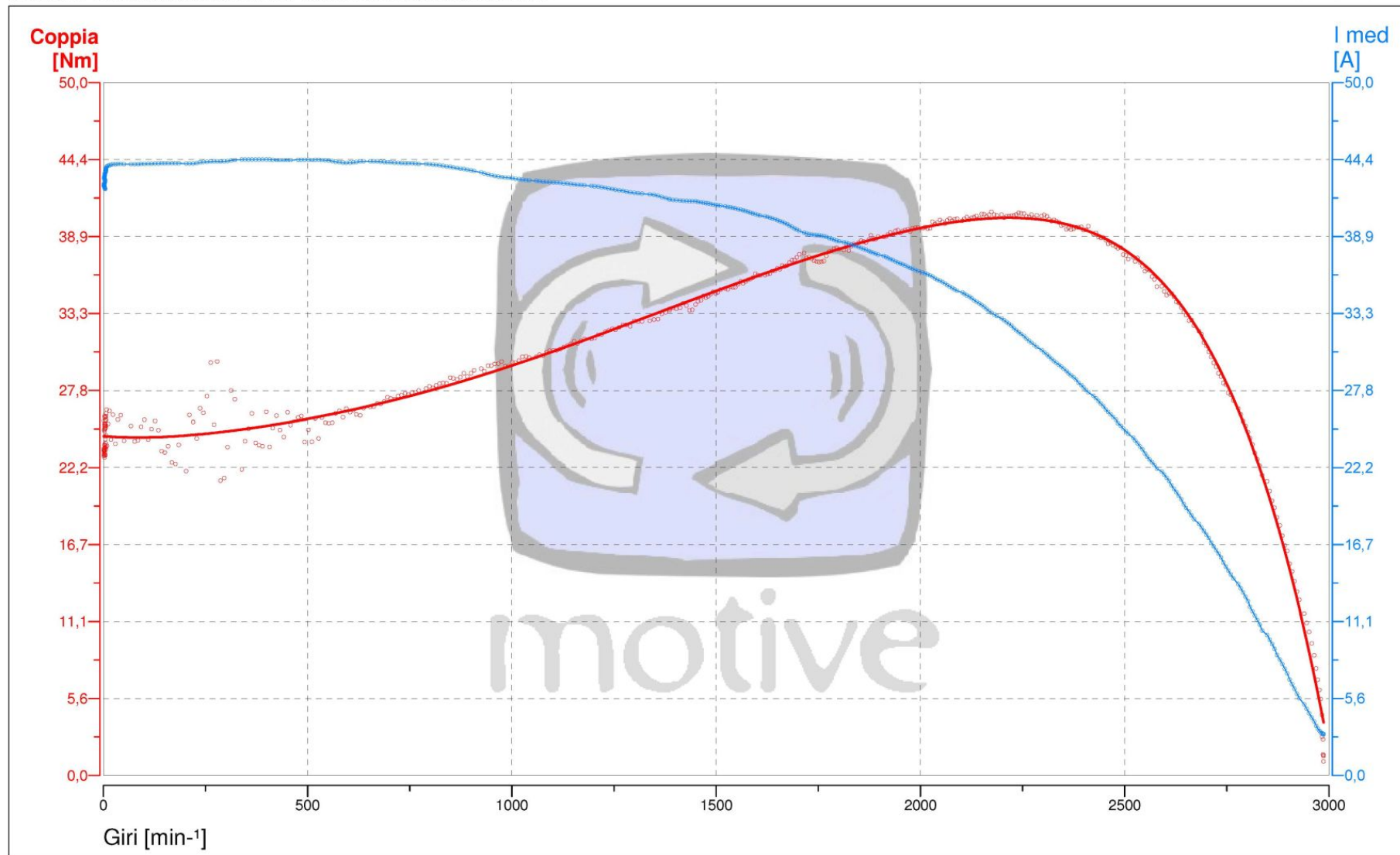
V Nom. [V] : 400

Frequenza [Hz] : 50

P Nom.[KW] : 4

Giri [min-] : 2886

File Prova : C:\Elektro\Prove\Trifase\112\ 112M-2 B3-1810G02146-28GEN09.TXT



Note: PROVA MOTORE



RENDIMENTO

28/01/2009

EFFICIENCY

Tipo motore : 112M-2

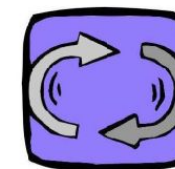
V Nom. [V] : 400

Frequenza [Hz] : 50

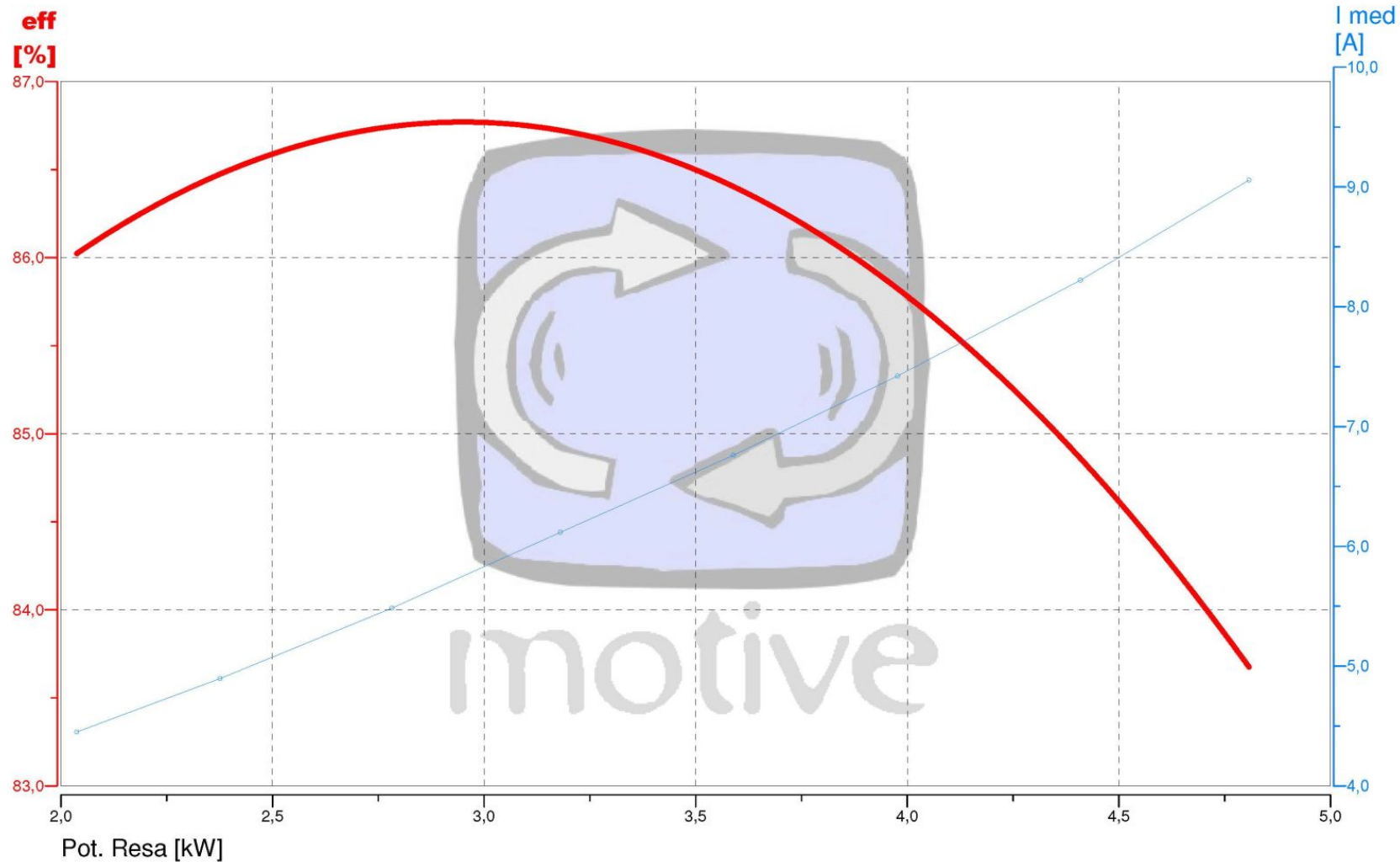
P Nom.[KW] : 4

Giri [min-] : 2886

File Prova : C:\Elektro\Prove\Trifase\112\ 112M-2 B3 0810G02146 28GEN09.TXT



motive



Note: PROVA MOTORE



riscaldamento

heating

28/01/2009

Tipo motore : 112M-2

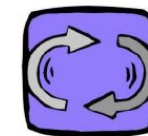
V Nom. [V] : 400

Frequenza [Hz] : 50

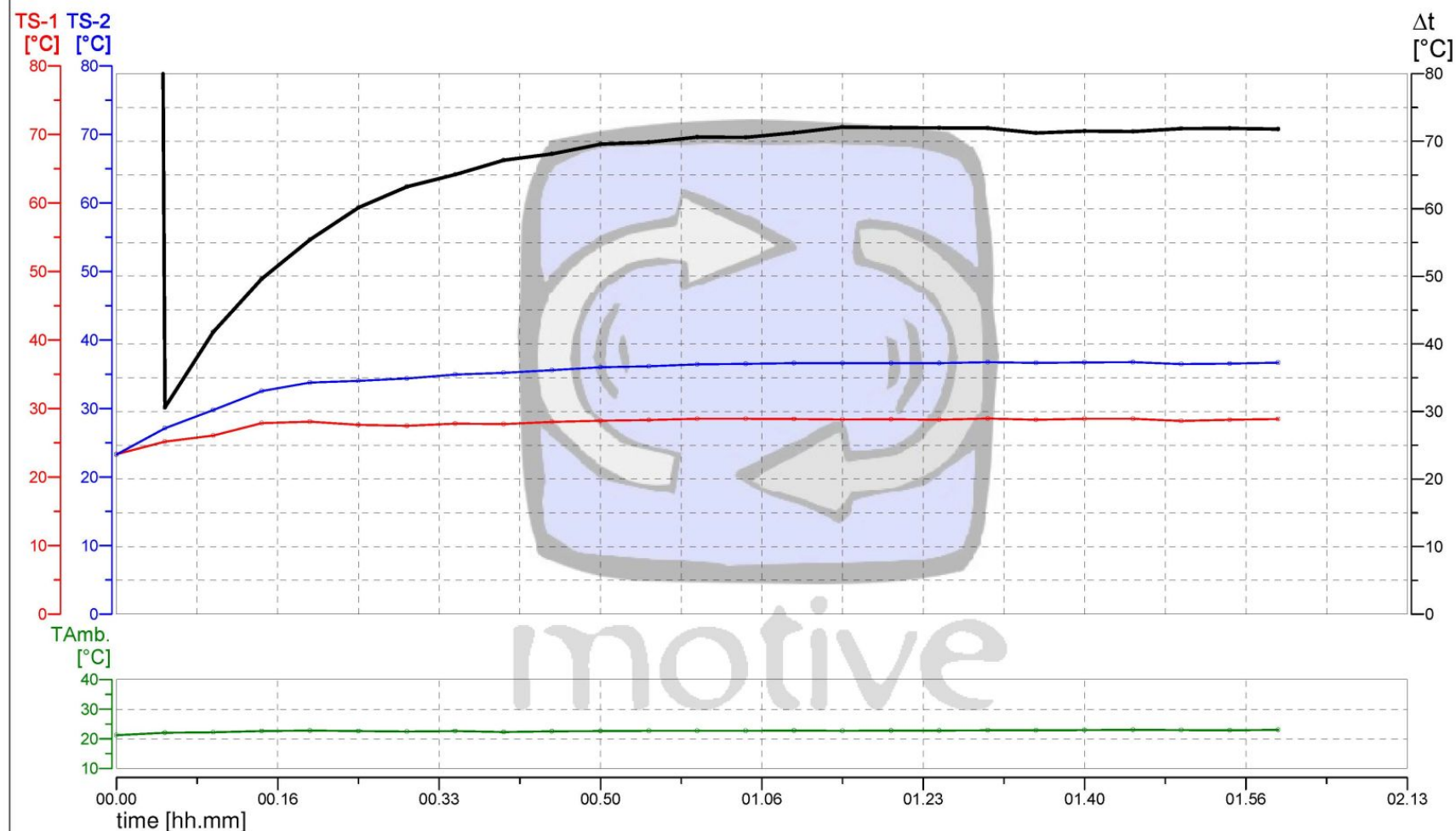
P Nom.[KW] : 4

Giri [min-1] : 2886

File Prova : C:\Elektro\Prove\Trifase\112\ 112M-2 B3 0810G02146 28GEN09.TXT



motive



Note: PROVA MOTORE





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 "DELFI"

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 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
www.imq.it - info@imq.it

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.31857.04/ILCO.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-ИТ.НХ37.В.02083/20

Дата регистрации декларации о соответствии: 14.04.2020

[1] **EU-TYPE EXAMINATION CERTIFICATE**
CERTIFICATO DI ESAME UE DEL TIPO

- [2] **ELECTRICAL EQUIPMENT** Intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU-ATEX Annex III/Module B
APPARECCHIO ELETTRICO Inteso per l'uso in Atmosfera Potenzialmente Esplosiva - Direttiva 2014/34/EU-ATEX Annex III/Module B
- [3] **EU-TYPE EXAMINATION CERTIFICATE n.:** **AR18ATEX152**
CERTIFICATO DI ESAME UE DEL TIPO n.:
- [4] **ELECTRICAL EQUIPMENT:** **Motori asincroni trifase serie DELPHI**
APPARECCHIO ELETTRICO:
- [5] **MANUFACTURER:** **Motive srl**
COSTRUTTORE:
- [6] **ADDRESS:** **Via Le Ghiselle, 20**
INDIRIZZO: **25014 Castenedolo (BS) - ITALY**
- [7] This ELECTRICAL EQUIPMENT and any variation is specified in the schedule to this certificate and the documents therein referred to.
Questo APPARECCHIO ELETTRICO e le varianti sono descritte nell'allegato al presente certificato e nei documenti vi richiamati.
- [8] Albarubens srl, Notified Body No. 2632, in accordance with Article 17 of the Directive 2014/34/EU-ATEX of the European Parliament and of the Council, dated 26 February 2014, certifies that this ELECTRICAL EQUIPMENT has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report MOD 7.4.1 - ID: 3242
Albarubens srl, Organismo Notificato n. 2632, in conformità all'art. 17 della Direttiva 2014/34/UE-ATEX del Parlamento Europeo e del Consiglio, datata 26 Febbraio 2014, certifica che questo APPARECCHIO ELETTRICO è conforme ai Requisiti Essenziali di Sicurezza e Salute per il progetto e la fabbricazione di prodotti destinati ad essere utilizzati in atmosfera potenzialmente esplosiva, definiti nell'Allegato II della Direttiva. I risultati dell'esame e dei test sono descritti nel rapporto confidenziale MOD 7.4.1 - ID: 3242
- [9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with the technical standards:**
La conformità ai Requisiti Essenziali di Sicurezza e Salute è assicurata dalla conformità alle norme tecniche:
EN 60079-0:2012/A11:2013 - EN 60079-7:2007 - EN 60079-31:2014
except in respect of those requirements listed at item 18 of the Schedule.
tranne nel caso dei requisiti elencati al punto 18 dell'Allegato.
- [10] If the symbol 'X' is placed after the certificate number, it indicates that the ELECTRICAL EQUIPMENT is subject to the Specific Conditions of Use specified in the next chapter 17.
Il simbolo 'X', se presente dopo il numero di certificato, indica che questo APPARECCHIO ELETTRICO è soggetto a Condizioni Speciali per l'uso, specificate nel seguente punto 17.
- [11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified ELECTRICAL EQUIPMENT. Further requirements of the Directive apply to the manufacturing process and supply of product.
These are not covered by this certificate.
Questo CERTIFICATO DI ESAME UE DEL TIPO è relativo soltanto al progetto ed alla costruzione di questo APPARECCHIO ELETTRICO. Ulteriori requisiti di questa Direttiva si applicano al processo di fabbricazione e fornitura di questo prodotto. Questi requisiti non sono oggetto del presente certificato.
- [12] **The marking of the ELECTRICAL EQUIPMENT shall include the following:**
Questo APPARECCHIO ELETTRICO deve riportare i seguenti contrassegni:
 II 2G Ex eb IIC T4 Gb
 II 2D Ex tb IIC T135°C IP65 Db
Tamb=-20 +40 °C

Saronno (Italy), 27 Dec 2018



Giuseppe Terzaghi
Firmato digitalmente da
Giuseppe Terzaghi
Data: 2018.12.27
16:44:37 +01'00'

ALBARUBENS srl
The legal representative: ing. Giuseppe Terzaghi



Verify the authenticity of this certificate on the website: <https://www.albarubens.it/authentication.php> (Password: AREMVC)

page 1/3

Albarubens srl - Via G. Ferrari 21/N - 21047 Saronno (VA) - Italy - Reg. VA-286283 - Tax code IT 02767050129 - Paid-up capital €100.000,00
www.albarubens.it - info@albarubens.it - tel: +39 02 96248530 - fax: +39 02 700523656 - Document automatically generated by the Albarubens WebApp rev. 1.32

JOB: 18/0183 - ID: 3242

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT

CERTIFICATE



[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

[3] EU-Type Examination Certificate number:

TÜV IT 20 ATEX 048 X

[4] **Equipment:** Three-phase asynchronous electric motors DELPHI series

[5] **Manufacturer:** MOTIVE S.r.l.

[6] **Address:** Via Le Ghiselle 20
25014 CASTENEDOLO (BS) Italia

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] TÜV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. R 20 EX 046

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 II 2G Ex eb IIC T4 Gb
 II 2D Ex tb IIC T135°C Db

Tamb: -20° +40 °C

Alternative marking for IE3 series
 II 2G Ex eb IIC T3 Gb
 II 2D Ex tb IIC T135°C Db

Tamb -20 +50 °C

This certificate may only be reproduced in its entirety and without any change, schedule included.

Issue date: 17th February 2021

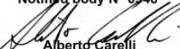


PRD N° 081B

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 72223711.

page 1 of 6

PEX-01-M002_r07 del 29/03/2018

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

TUV



CERTIFICAT

◆ CERTIFICADO

◆ CERTИФИКАТ

◆ 合格證書

◆ CERTIFICATE

◆ ZERTIFIKAT

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 72222319

page 1 of 2

PEX-01-M011_110 del 07/08/2018

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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.

Description	Asynchronous three-phases electric motors
Type	DELPHI Series
Applicant	Motive S.r.l. Via Le Ghiselle, 20 25014 Castenedolo (BS) Italy
Manufacturing Place	Motive S.r.l. Via Le Ghiselle, 20 25014 Castenedolo (BS) Italy
Testing Standards	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

Valerio Bonanni

RINA Services S.p.A.

Valerio Bonanni



RINA Services S.p.A.
Via Corsica, 12 – 16128 Genova

Page 1/2

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

Issued by:

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

Intertek

Pia Østgaard
Pia Østgaard
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.





CERTIFICATO

Nr. 50 100 1185 - Rev.010

Si attesta che / This is to certify that

IL SISTEMA QUALITÀ DI
THE QUALITY SYSTEM OF



motive
MOTIVE S.r.l.

SEDE LEGALE E OPERATIVA:
REGISTERED OFFICE AND OPERATIONAL SITE:

VIA LE GHISSELLE 20
IT - 25014 CASTENEDOLO (BS)

È 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

**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)**



SGQ N° 049A

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

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

Validità / Validity

Dal / From: **2019-03-19**

Al / To: **2022-03-02**

Andrea Coscia
Direttore Divisione Business Assurance

Data emissione / Issuing Date

2019-03-19

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2001-07-20

DATA DI SCADENZA DELL'ULTIMO CICLO DI CERTIFICAZIONE: 2019-03-02

EXPIRATION DATE OF THE LAST CERTIFICATION CYCLE: 2019-03-02

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SOTTOPOSTA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME 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"

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