



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

# Fisa tehnica

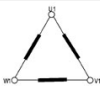
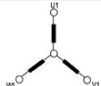
## DESCRIEREA PRODUSULUI

Producător	Motive s.r.l.
Tipul de motor	DELPHI 132MC-4
Cod motor	132MC-4B5
Versiune	standard
# poli:	4
Configurare	B5

Altitudinea maxima	1000 m a.s.l.
Temperatură Creștere ΔT	80 °C
Caracteristici	Aluminum motor
Infasurare tropicalizată (standard)	
Greutate	57 Kg
Clasa de eficiență	IE2

Date de sarcină	100%	75%	50%
Eficiență η% la 50Hz	89.80	89.80	87.80
Factor de putere cosφ	0.81	0.77	0.61

Nivelul de presiune al sunetului (Lwa)	73 [dB]
Rotor Inertia	0.04 Kgm <sup>2</sup>
Rulment DE	6208 ZZ
Rulment NDE	6208 ZZ

Hz	50		
Conexiune			
Volt	230V	400V	
Putere	kW	11	
	Hp	15	
Viteză	rpm	1461	
cuplu nominal Cn	Nm	71.9	
Curent nominal In	A	38.19	21.96
Curent de pornire Is	A	296.40	170.43
Cuplu de pornire Cs	Nm	196.4	
Cuplu maxim Cmax	Nm	186.95	

Protecție	IP 65
Is/In	7.80
Cs/Cn	2.70
Cmax/Cn	2.60





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## CONFIGURAȚII



### Opțiuni ATEX

DELPHI-Ex (ATEX zone 1-2-21-22)

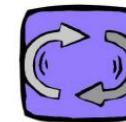
[ESPMEXII2GD132](#)



# curva coppia/assorbimento

*torque and current curve*

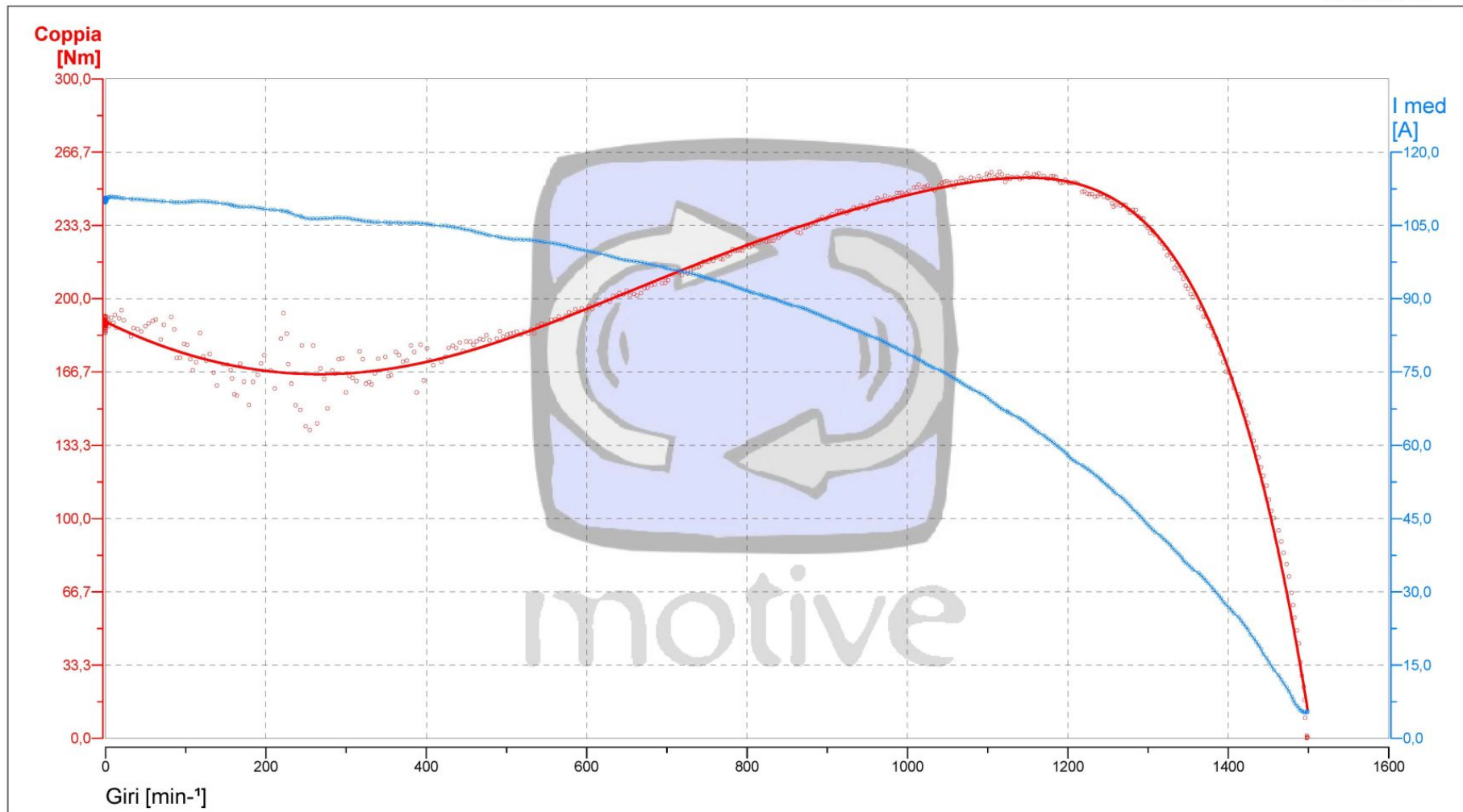
10/09/2009



motive

Tipo motore : 132MC-4      V Nom. [V] : 400      Frequenza [Hz] : 50      P Nom.[KW] : 15      Giri [min<sup>-1</sup>] : 1457

File Prova : C:\Elektro\Prove\Trifase\132\ 132MC-4 11kW B3 0904G10474T 10SET09.TXT



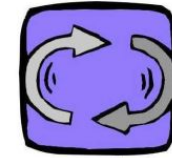
Note : Note: PROVA MOTORE A 11 KW



# RENDIMENTO

## EFFICIENCY

10/09/2009



motive

Tipo motore : 132MC-4

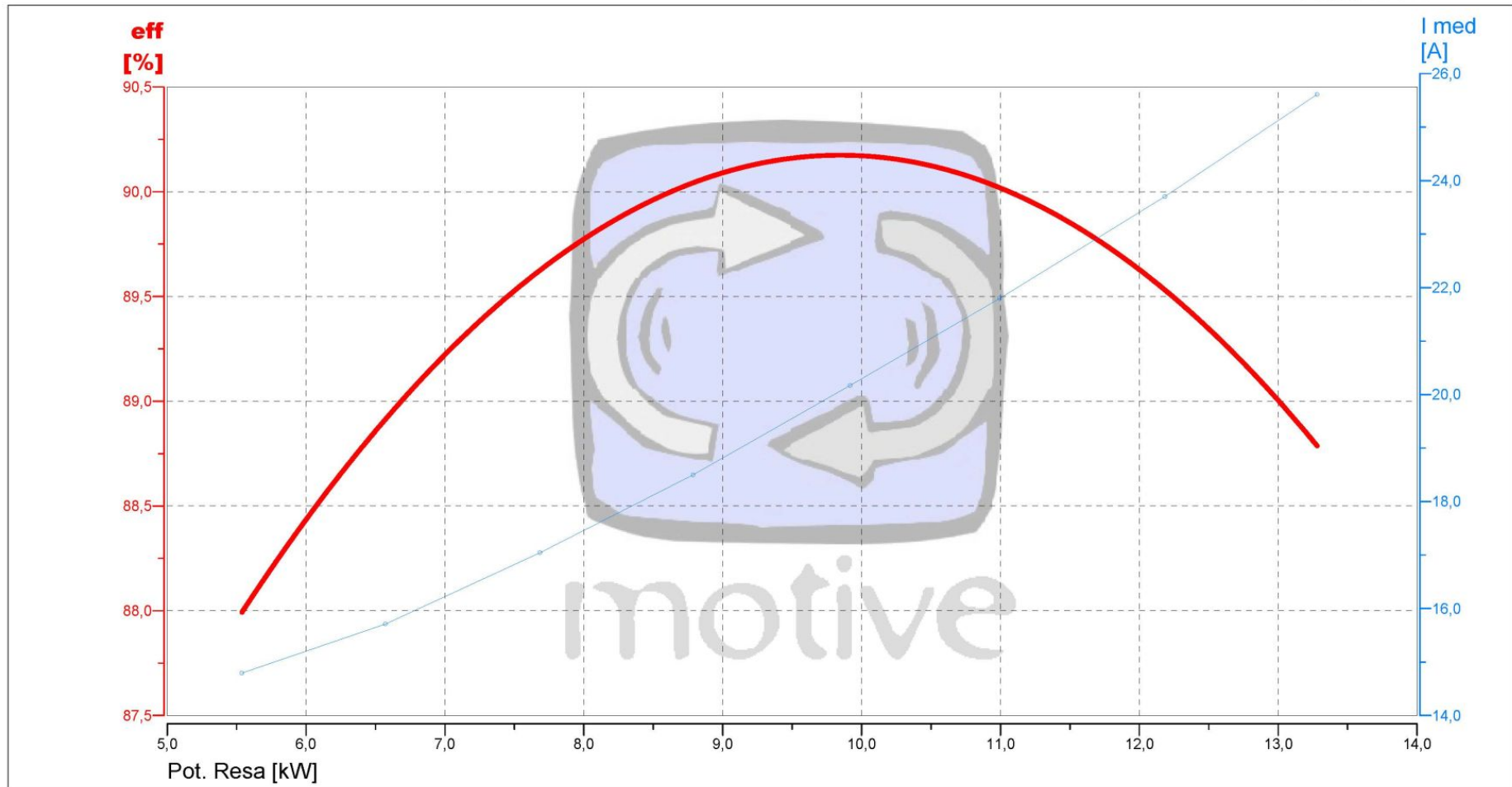
V Nom. [V] : 400

Frequenza [Hz] : 50

P Nom.[KW] : 15

Giri [min-1] : 1457

File Prova : C:\Elektro\Prove\Trifase\132\ 132MC-4 11kW B3 0904G10474T 10SET09.TXT



Note : Note: PROVA MOTORE A 11 KW

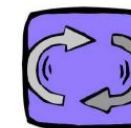


# riscaldamento heating

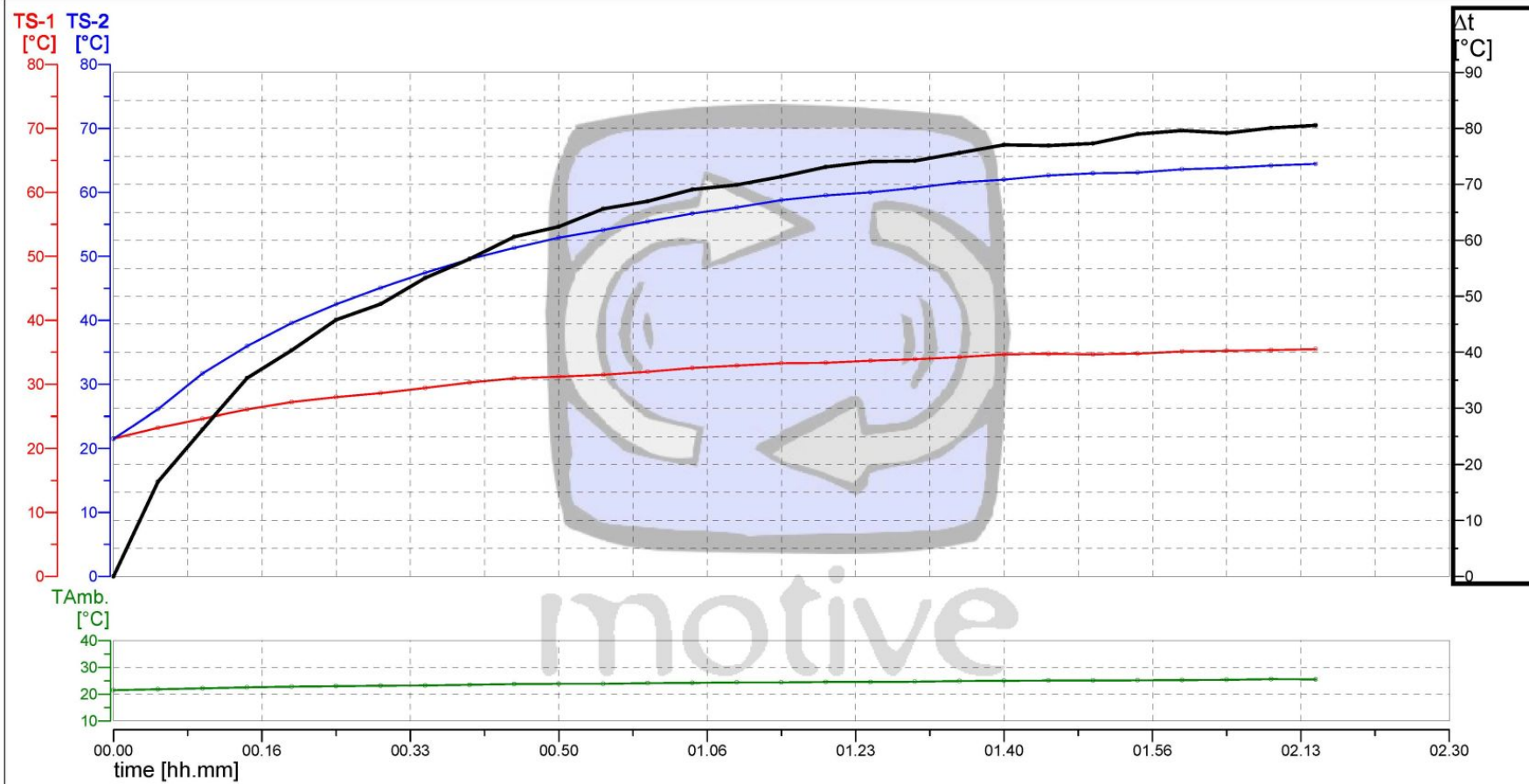
10/09/2009

Tipo motore : 132MC-4      V Nom. [V] : 400      Frequenza [Hz] : 50      P Nom.[KW] : 15      Giri [min-1] : 1457

File Prova : C:\Elektro\Prove\Trifase\132\ 132MC-4 11kW B3 0904G10474T 10SET09.TXT



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Note : Note: PROVA MOTORE A 11 KW





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Fax: +39 030 2677 125  
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: *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 Mostre (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 EffI	1,5
100LB-4 EffI	3
112M-4 EffI	4
132M-4 EffI	7,5
90L-2 EffI	2,2
112M-2 EffI	4
132SB-2 EffI	7,5
112M-6 EffI	2,2
132S-6 EffI	3
100LA-8 EffI	0,75
132M-8 EffI	3

With Regards

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

IMQ S.p.A.  
Via Quintiliani 43  
20138 Milano  
Tel. (+39) 0250731  
www.imq.it - info@imq.it

[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 ivi 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. I 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 IIIC T135°C IP65 Db  
 Tamb=-20 +40 °C

Saronno (Italy), 27 Dec 2018



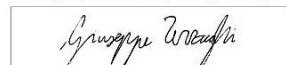
PRD N° 257 B  
Membro degli Accordi di Riconoscimento EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



Digital signature

Firmato digitalmente da  
Giuseppe Terzaghi  
Date: 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)

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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 700523856 - Document automatically generated by the Albarubens WebApp rev. 1.82





# 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. Via Le Ghiselle, 20 25014 Castenedolo (BS) Italy
<b>Manufacturing Place</b>	Motive S.r.l. Via Le Ghiselle, 20 25014 Castenedolo (BS) 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

*Valerio Bonanni*

RINA Services S.p.A.

*Valerio Bonanni*



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

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## 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



*Pia Östgaard*  
Pia Östgaard  
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 part, 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.

*Handwritten initials*



ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT



# 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**

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

Data emissione / Issuing Date

**Andrea Coscia**  
Direttore Divisione Business Assurance

**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 SUBORDINATA 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"

TÜV Italia S.r.l. • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • www.tuv.it TÜV®

T01-1481

