

Manual Addendum brake motors DELPHI ATDC Ex 2GD







II 2G Ex eb IIC TX Gb II 2D Ex tb IIIC TXXX°C Db Tamb=-20 +XX °C

TX= T5-T4-T3 TXXX°C= 100°C(T5) - 120°(T4-T3) XX °C= (40-45-50-55-60)°C



Regulatory references:

Standard (last edition)	Title
Say. 2014/34/EU	Equipment and Protective systems intended for use in Potentially Explosive Atmospheres. Safety requirements
IEC 60034-5:2020/A1:2006	Rotating electrical machines – Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) – Classification Internal methods Tests not related to standards, developed by laboratory or under client's specification
EN IEC 60079-0:2018	Explosive atmospheres – Part 0: Equipment – General requirements
EN IEC 60079-7:2015+AMD1:2017	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
EN 60079-31:2014	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60204-1:2005	Safety of machinery – Electrical equipment of machines – Part 1: General requirements

Field of application

The plant operator/employer is responsible for dividing up the zones. He must comply with the standards EN 60079-31, EN 60079-14, EN 60079-17 and EN 60079-19 (as applicable) when selecting the suitable motor. Any dust deposits must not be 5mm thick>.

Declaration of conformity

The declaration of conformity incorporated in this addendum is the document that certifies the conformity of the product with Directive 2014/34/EU.

This certificate is only valid if the instructions specified in the owner's manual attached to the product are followed, together with the additional instructions in this addendum.

Additional instructions for commissioning, operation and maintenance

Persons who use motors in potentially explosive environments must be instructed in the correct procedure for using the motor in accordance with the general safety and commissioning regulations.

The motors must be protected against overheating with special control devices chosen according to the specific operating conditions according to standards EN60079-7, EN60079-0 and EN60079-31.



All Motive Delphi-Ex motors are equipped as standard with temperature probes (3 PTC thermistors with calibrated degree of intervention based on the temperature class and the maximum ambient operating temperature), to be connected to a suitable release device as per EN 50495 standard.



It is forbidden to open the motor for the connection of electrical cables or to carry out other interventions in the presence of an explosive atmosphere. Before each opening, disconnect the motor from the mains supply and secure it against accidental restarting.

The permitted service of the engines is: S1-S2-S3-S4-S5-S6-S7-S8-S9.

The motors can be powered by any type of frequency converter in compliance with the parameters of the nameplate.

The special condition referring to the mandatory use of the PTC is based on the following:

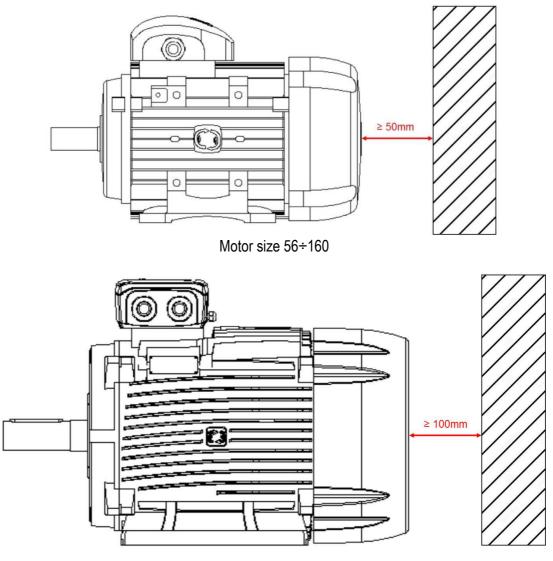
- In the case of mains power supply (DOL), the internal temperature sensors must be connected to a suitable release device in order to create a system compliant with the EN50495 standard with:
 - EUC hardware fault tolerance = 0;
 - Safety integrity level SIL = 1 (with reference to EN 61508)
- For VFD power, the indoor temperature sensor must be connected:
 - directly to the inverter terminals
 - or as per DOL installation.

The following ATDC self-braking motor can be used in potentially explosive group II environments, in zone 1/21 only if used as a parking brake and in temperature classes T5/100°C – T4/120°C or T3/120°C with Tamb=-20 +60°C (marking applicable according to the motor selected in the www.motive.it/configuratore.php configurator).

This addendum is accompanied by the "installation and maintenance rules" manual for the electromagnetic brake on board. It is the end user's obligation to read them and check the requirements.

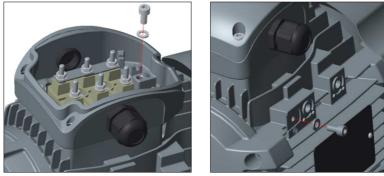


For proper ventilation of the motor, it is recommended to maintain a minimum distance from walls or encumbrances of 50mm for motors from size 56 to 160 and 100mm from size 180 to 355.



Motor size 180÷355

Grounding must be done (using the screw and galvanized spring washer supplied) both inside the terminal box (fig.1) and at the appropriate fixing on the casing (fig.2).









The cross-section of the grounding wire connected to the motor housing must be of cross-section as per table 12 (EN 60079-0):

Cross-sectional area of phase conductors, S	Minimum cross-sectional area of the corresponding PE conductor, S _p
mm ²	mm ²
<i>S</i> ≤ 16	S
16 <i>< S</i> ≤ 35	16
<i>s</i> > 35	0,5 <i>s</i>

Table 12 – Minimum cross-sectional area of PE conductors

For proper tightening of the screws for grounding, please refer to the table below.

	M4	M5	M6	M8	M10	M12	M16
Nm	2	3,2	5	10	20	35	65

Use with inverters

When Delphi-Ex motors are used with inverters in addition to the general selection criteria (limit values: rated voltage <830V, peak voltage <2.2kV, voltage gradients <2.2kV/1µs), The following elements must be taken into account:

- Motors powered by inverters have a voltage (or current) that is not purely sinusoidal. This leads to an increase in losses, vibrations, noise and a different thermal balance of the engine.
- The possibility of peaks is related to the value of the inverter supply voltage and the length of the motor power cable.

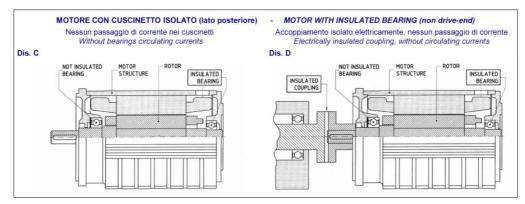
To limit the phenomenon, it is advisable to use special filters connected between the inverter and the motor (mandatory for motor power cables over 50 meters). All Delphi-Ex motors are equipped as standard with a Nomex reinforcing separator film between the phases to protect against voltage peaks.

• Proper grounding of the motor and the machine is very important to avoid voltages and eddy currents in the bearings.

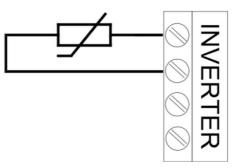
To prevent current from circulating in the bearing if the motor is not equipped with an insulated bearing, use a suitable filter to reduce the high-frequency harmonic voltage beyond 50kHz.



• Motors with a power of 110kW must be equipped with an insulated bearing. The coupling with the machine must be isolated.



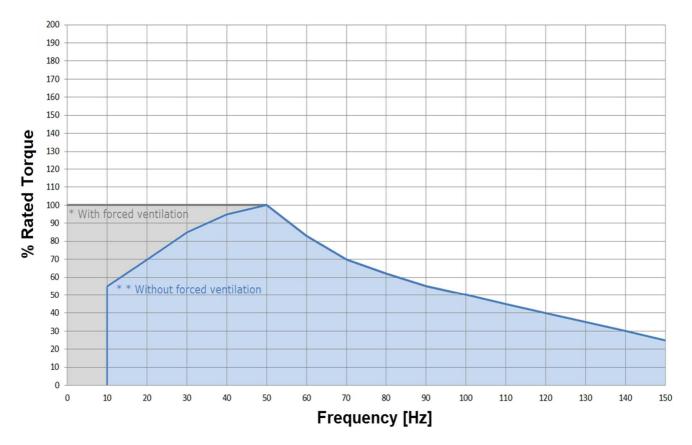
• It is <u>obligatory</u> to connect the temperature probes present to the inverter to protect the motor from overheating that could generate improper use.



These temperature probes have the two terminals for connection identified with a label and located inside the main terminal box.

- For inverter power, the switching frequency must be higher than 4kHz (PWM type), output frequency range of 0÷120Hz for 2-pole motors / 0÷150Hz for 4-6-8 pole motors
- The installation of Atex servo ventilation is mandatory if the motor is used at frequencies below 50Hz at constant load torque. tag. Motive offers its ATEX-certified servo ventilation II 2G Ex IIC T4 Gb II 2D Ex IIIC T135°C Db Tamb=-20 +40 °C





If the motor is operated at frequencies below 50Hz at quadratic load torque, refer to the following graph for the maximum percentage of load torque allowed.

For the speed/torque ratios, please refer to the following link: https://www.motive.it/rapporti.php

When using Delphi-ATDC-Ex 2GD brake motors with inverters, in addition to the general selection criteria and requirements contained in this addendum, the end-user must take into account the maximum applicable brake input speed limits as indicated in the following table.

IEC Size	Maxim	um applicable speed [rpm]
63	3600	S1 Service
03	4320	S3 Service 40%
71	3600	S1 Service
71	4320	S3 Service 40%
80	3600	S1 Service
00	4320	S3 Service 40%
90	3600	S1 Service
90	4320	S3 Service 40%
100	3600	S1 Service
100	4000	S3 Service 40%



112	3600	S1 Service
112	4000	S3 Service 40%
132	3600	S1 Service
IJZ	4000	S3 Service 40%
160	3600	S1 Service
100	2900	S3 Service 40%
180	2500	S1 Service
100	2800	S3 Service 40%
200	2500	S1 Service
200	2800	S3 Service 40%
225	2500	S1 Service
225	2800	S3 Service 40%
250	1800	S1 Service
200	2200	S3 Service 40%
280	1800	S1 Service
200	2200	S3 Service 40%

Installation Warnings

When installing the motor, it is advisable to follow these guidelines:

- Check that there has been no damage during transport.
- Properly clean the system components of packaging residues and any protective products.
- Check that the value of the supply voltage stamped on the motor plate coincides with the mains voltage.
- The contact surfaces of the equipotential bonding connections and the type plate must not be painted.
- Install the motor on a level surface.
- Make sure that the feet or flange are tightened and that, in the case of a direct joint, the motor is perfectly aligned.
- Rotate the shaft manually to check for sliding noises.
- Check the direction of rotation with the transmission disengaged.
- Shrink (extract) the driven elements (e.g. pulley for belt transmission, coupling, etc.), only by means of special devices (hot shrink fit).
 Avoid unauthorised tension on the pulley.
- Do not obstruct ventilation. Exhaust air, including air from other groups, must not be immediately sucked in.
- Check that the motor is properly grounded.



Maintenance instructions: Clean the motor only with a wet or antistatic cloth.

Electrical and thermal protections

Protective devices must be chosen according to the specific operating conditions according to standards EN60079-14 and EN61241-14.

External protections:

- protection against overcurrent and short circuits; this protection can be obtained by means of a circuit breaker or with fuses; these must be calibrated to the current of use of the motor.
- protection against overloads, by means of a thermal relay that controls a power contactor upstream of the motor.
- protection against overspeed, for example if the mechanical load can drag the engine and this can become a dangerous condition.
- protection, if particular operating conditions in synchrony with other machines or parts of machines require it, against interruption of the supply voltage or reduction of the same by means of a minimum voltage relay that controls a circuit breaker disconnecting power.

*Note: An internal thermal protector** is required in an engine that complies with EN 50495. A thermal relay, in fact, is not enough.

Internal protections:

The electrical protections on the motor power supply line may be insufficient to ensure overload protection, and it is therefore necessary to overcome this problem by connecting the thermal protections on the windings:

• PTC thermistor (device that positively varies its resistance suddenly once the tripping temperature is reached). All Motive Delphi-Ex engines are equipped with 3 PTC thermistors as standard.

Power supply cable entry (DELPHI 3PH EX)

			/					
Motor Type	56	63-100	112	132	160-180	200-225	250-355	400
Cable gland / cap as standard	2xM16	2xM20	2xM25	2xM32	2xM40	2xM50	2xM63	3xM63
Cable gland services as standard	/	/		/	1xM16	1xM16	1xM16	1xM16
Auxiliary inlet cable gland*	/	1xM16	1xM16	1xM16	/	/	/	/

* with oversized connection box: on request, or as standard with the addition of heaters, PT100 or for ATDC motors



Lubrication of bearings

Motors with self-lubricated "ZZ" sealed bearings (standard up to and including size 280) do not require periodic lubrication.

The life of the bearings varies from 3 to 5 years depending on the axial and radial loads applied to the shaft and according to the environmental conditions of use of the engine.

Motors provided with the bearing lubrication device shall be lubricated with the engine running in accordance with the lubrication intervals and quantity given in Table 1.

On special roller bearings "NU-NJ" and angular contact bearings "7.." non-standard, the lubrication intervals in table 1 are halved.

Lubrication intervals are halved even for motors powered by inverters, due to vitrification of the grease due to the current passage between the rotor and stator.

For this reason, insulated bearings (special design) are recommended for these inverter-powered motors, especially on motors with a power of \geq 110kW.

Lithium or polyurea grease with mineral base oil suitable for a maximum operating temperature of at least 190°C can be used.

Matara	Fat qua	ntity [g]	Lubr	ication interval	s in operating h	ours
Motore	2 poles	4-6-8 Poles	2 poles	4 poles	6 poles	8 poles
80	10	10	5000	10000	15000	20000
90	12	12	5000	10000	15000	20000
100	14	14	4800	9600	14400	19200
112	14	14	4800	9600	14400	19200
132	15	15	4400	8800	13200	17600
160	20	20	4000	8000	12000	16000
180	25	25	3800	9300	12400	15200
200	25	25	3800	9300	12400	15200
225	25	25	3800	8900	12200	14800
250	30	30	3100	4100	5900	6900
280	32	40	800	3900	5600	6700
315	36	45	800	2300	4100	5100
355	45	60	700	2000	4000	4500

Table 1



Maximum radial and axial loads

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|-------------|---|--
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| tion | 750rpm | |
 | $\left \right $

 | 1810 | 2060

 | 2800 | 3000
 | 4200
 | 5890 | 10160 | 9080 | 9640
 | 11550 | 19980
 | 18930 | 32890 | | |
 | |
| special op | 1000rpm | |
 |

 | 1560 | 1810

 | 2470 | 2690
 | 3640
 | 5570 | 8590 | 8130 | 8500
 | 10210 | 17810
 | 16740 | 25970 | 35490 | |
 | |
| mic Fr [N] | 1500rpm | |
 |

 | 1390 | 1620

 | 2200 | 2400
 | 3250
 | 4970 | 7670 | 7260 | 7590
 | 9120 | 15900
 | 14950 | 25970 | 35490 | |
 | |
| dyna | 3000rpm | |
 |

 | 1110 | 1260

 | 1760 | 2000
 | 2580
 | 4240 | 5750 | 5750 | 6130
 | 7300 | 0626
 | 11300 | 22650 | 26590 | |
 | |
| on | 750rpm | |
 | 1000

 | 1440 | 2080

 | 2900 | 3700
 | 6130
 | 8980 | 6070 | 7320 | 8450
 | 8010 | 10200
 | 10120 | 10400 | | |
 | |
| pecial opti | 1000rpm | |
 | 096

 | 1370 | 2480

 | 3070 | 3070
 | 2390
 | 2900 | 4450 | 5920 | 8550
 | 9390 | 9830
 | 10000 | 0096 | 19910 | |
 | |
| /Fa2 [N] s | 1500rpm | 500 | 500
 | 800

 | 1160 | 2000

 | 2410 | 2410
 | 1840
 | 2290 | 4000 | 4810 | 7350
 | 7950 | 9830
 | 10000 | 9096 | 17050 | |
 | |
| Fa1 | 3000rpm | 380 | 380
 | 640

 | 890 | 1480

 | 1960 | 1960
 | 1110
 | 1990 | 3560 | 3700 | 5400
 | 5930 | 6070
 | 6580 | 7740 | 0966 | |
 | |
| | 750rpm | |
 | 320

 | 460 | 650

 | 850 | 850
 | 1500
 | 2200 | 3300 | 4800 | 5700
 | 6500 | 6800
 | 7000 | 7200 | | |
 | |
| l] standard | 1000rpm | |
 | 300

 | 400 | 570

 | 750 | 750
 | 1300
 | 1900 | 3000 | 4800 | 5700
 | 6500 | 6800
 | 2000 | 7200 | 14600 | |
 | |
| a1/Fa2[N | 1500rpm | 160 | 160
 | 250

 | 340 | 460

 | 590 | 590
 | 1000
 | 1500 | 2700 | 3900 | 4900
 | 5500 | 6800
 | 2000 | 7200 | 12500 | |
 | |
| | 3000rpm | 120 | 120
 | 200

 | 260 | 340

 | 480 | 480
 | 600
 | 1300 | 2400 | 3000 | 3600
 | 4100 | 4200
 | 4600 | 5800 | 7300 | |
 | |
| | 750rpm | |
 | 500

 | 006 | 980

 | 1400 | 1500
 | 2200
 | 3200 | 5300 | 5500 | 6000
 | 6000 | 0069
 | 17500 | 19000 | | |
 | |
| tandard | 1000rpm | |
 | 480

 | 800 | 880

 | 1250 | 1400
 | 1950
 | 3000 | 4600 | 5500 | 0009
 | 0009 | 0069
 | 15000 | 19000 | 20500 | |
 | |
| Fr [N] st | | 360 | 375
 | 410

 | 069 | 0//

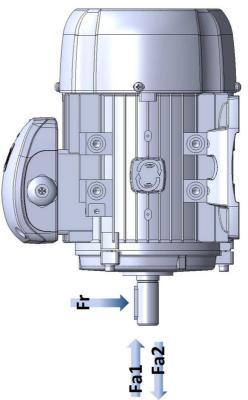
 | 1100 | 1200
 | 1700
 | 2700 | 4000 | 4800 | 5200
 | 6000 | 7800
 | 15000 | 19000 | 20500 | |
 | |
| | 3000rpm | 275 | 300
 | 330

 | 550 | 600

 | 880 | 1000
 | 1350
 | 2300 | 3000 | 3800 | 4200
 | 4800 | 4800
 | 5800 | 00// | 0006 | |
 | |
| | | 56 | 63
 | 71

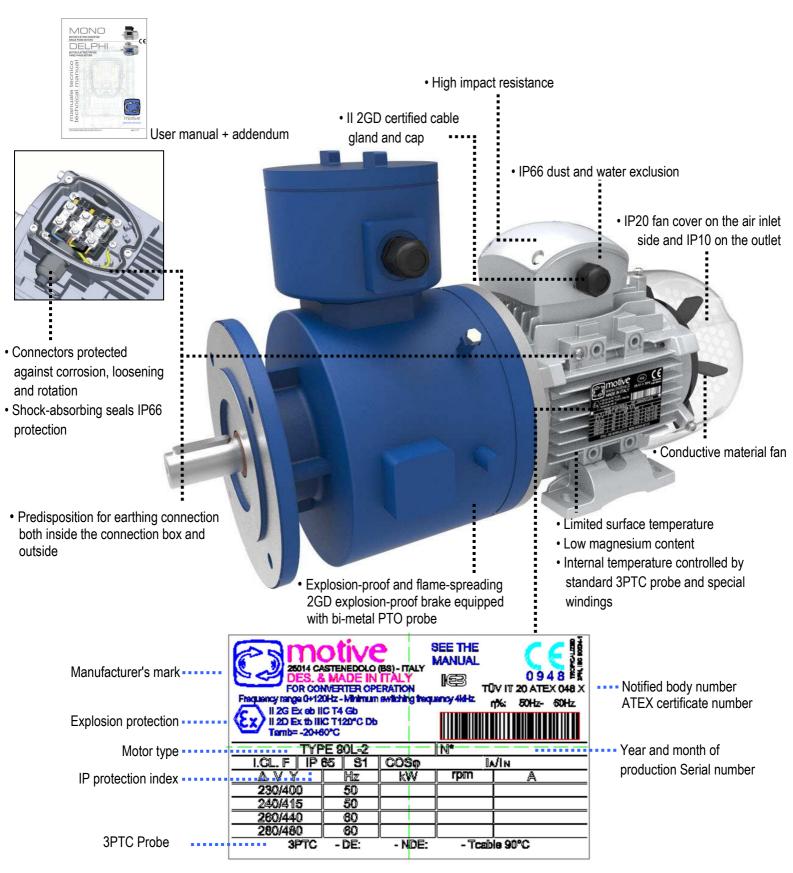
 | 80 | 06

 | 100 | 112
 | 132
 | 160 | 180 | 200 | 225
 | 250 | 280
 | 315 | 355 | 400 | |
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PECULIAR CHARACTERISTICS DELPHI ATDC Ex 2GD motors





DELPHI ATDC EX 2GD RATING

Motor

For GAS G			(with Tar	nb=-20 +	60°C)						
CE	(Ex)	11	2	G	Former	Eb	IIC	T4	GB		
1	2	3	4	(5)	6	\bigcirc	8	9	10		
1	CE marking	CE marking									
2	ATEX Commu	inity Distincti	ve Mark								
3	Surface indust	Surface industries									
4	An area where	An area where explosive atmospheres may be present during normal operations (Zone 1)									
5	Protection aga	ainst gas con	nbustion								
6	Explosion Pro	tection: Inter	national								
\bigcirc	Equipment de (increased saf	0	oid the risk o	f arcs or spa	irks that could cau	se an ignitio	n hazard dı	uring normal o	peration		
8	For example,	for Hydrogen	. The equipn	nent marked	I for group IIC is al	so suitable f	or groups I	B and IIA			
9	For example, (max200°C).	T4 for maxim	ium tempera	ture of 135°	C. Also certified for	or Temperat	ure Class: 1	Г5 (max100°С	c), T3		
10	Extended leve	l of protectio	n in hazardo	us areas wit	h explosive gas m	ixtures					

For POWDERS D

(with Tamb=-20 +60°C)

				```		,						
CE	×3		2	D	Former	tb	IIIC	T120°C	Db			
1	2	3	4	5	9	10						
1	CE ma	arking										
2	ATEX	Commu	nity Distir	nctive Ma	rk							
3	Surfac	Surface industries										
4		An area where explosive atmospheres, in the form of a flammable cloud of dust in the air, may be present during normal operations (Zone 21)										
5	Protec	tion aga	inst dust	combust	on							
6	Explos	sion Prot	ection: In	ternation	al							
Ø	Protec	tion by c	ase									
8	For co	nductive	powder.	The equ	ipment marked for gro	oup IIIC is als	so suitable for g	roups IIIB and IIIA				
9	For ex	For example, maximum surface temperature of 120°C in class T4-T3; 100°C class T5										
10	Extend	ded leve	l of prote	ction in fla	ammable dust atmosp	heres						
L												



# BRAKE

For GAS $G$											
CE	(Ex)	11	2	G	Former	Db	IIC	T5	GB		
1	2	3	3 4 5 6 7 8 9								
1	CE marking	E marking									
2	ATEX Commu	inity Distincti	ve Mark								
3	Surface indust	tries									
4	An area where	e explosive a	tmospheres	may be pres	ent during normal	operations	(Zone 1)				
5	Protection aga	ainst gas con	nbustion								
6	Explosion Pro	tection: Inter	national								
Ø	Explosion-pro	of enclosure	with through	-beam conn	ector cable outlet						
8	Marked case f	Marked case for Group IIC substances									
9	T5 for maximu	ım surface te	mperature o	f 100°C							
10	Extended leve	el of protectio	n in hazardo	us areas wit	h explosive gas m	ixtures					

# For POWDERS D

 $\frown$ 

CE	Æx>	11	2	D	Former	tb	IIIC	T100°C	IP66	Db		
1	2	3	4	5	6	$\bigcirc$	8	9		10		
1	CE marking				·							
2	ATEX Comm	iunity [	Distinctive	Mark								
3	Surface indu	stries										
4		An area where explosive atmospheres, in the form of a flammable cloud of dust in the air, may be present during normal operations (Zone 21)										
5	Protection ag	jainst g	gas combu	stion								
6	Explosion Pre	otectio	n: Internat	ional								
7	Protection by	case										
8	For conductiv	/e pow	der									
9	Maximum su	Maximum surface temperature of 100°C										
10	Extended lev	el of p	rotection ir	n flamm	able dust atmospl	neres						





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

## Declaration of EU Conformity

Motive srl based in Castenedolo (BS) - Italy

declares as manufacturer, under its own exclusive responsibility, that its range of

asynchronous electric motors of the series "DELPHI"

complies with the following directives and standards:

 EC Directive 2014/34/EU: concerning "equipment and Protective systems intended for use in Potentially Explosive Atmospheres"

Marking:



II 2G Ex eb IIC T6..T3 Gb II 2D Ex tb IIIC T120°C..T85°C Db

Certificate Number (edit by TÜV Italia, Notified Body Number 0948): TÜV IT 20 ATEX 048 X Rev 1

as in accordance to the European Standards:

- IEC 60034-5:2000/A1:2006 Rotating electrical machines Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) – Classification Internal methods Tests not related to standards, developed by laboratory or under client's specification
- EN 60079-0:2018 Explosive atmospheres Part 0: Equipment General requirements
- EN 60079-7:2015+AMD1:2017 Explosive atmospheres Part 7: Equipment protection by increased safety "e"
- EN 60079-31:2014 Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
- IEC 60204-1:2005 Safety of machinery Electrical equipment of machines Part 1: General requirements

The machines are supplied without electrical connections to the control panels or any pneumatic and hydraulic supply connections.

It is therefore forbidden to use them until the plant into which they are incorporated has been declared as compliant with the provisions of the Machinery Directive 2006/42/EC and Directive 2014/34/EU and plant's analysis was not done as compliant with Directive 99/92/EC.

0//000 Castenedolo, 5th March 202 The legal Repress



Italia



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CEF	$\mathbf{X}$	 $\mathbf{\nabla}\mathbf{r}$	

#### EU-TYPE EXAMINATION CERTIFICATE

- Equipment or Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU
- EU-Type Examination Certificate number: [3]

#### TÜV IT 20 ATEX 048 X Rev 1

- Equipment or Protective System: Three-phase asynchronous electric motors DELPHI series [4]
- [5] Manufacturer: MOTIVE S.r.I.

[1]

[2]

#### Via Le Ghiselle 20 [6] Address: I-25014 CASTENEDOLO (BS) ITALY

- [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.
- TŪV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the [8] 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 Rev. 1.

Compliance with the Essential Health and Safety Requirements has been assured by compliance [9] 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 2D Ex th IIIC T85°C...T120°C Db

II 2G Ex eb IIC T6..T3 Gb

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

#### Issue date: 12[™] March 2025 1st Issue date: 17th February 2021



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

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

Alberto Colle

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 722337347.

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page 1 di 14

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н	
CERTIFICAT	
CE	[1] PRODUCT QUALITY ASSURANCE NOTIFICATION
<b>•</b>	[2] Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 2014/34/EU
CERTIFICADO	[3] Notification number: TÜV IT 21 ATEX 021 Q
Ē	[4] Equipment or Component as listed: Electric Motor, Frequency Converter
Hand Hand	Protection concepts: "e" and "t"
ట ♦	[5] Manufacturer: MOTIVE S.r.I. Via Le Ghiselle, 20 I-25014 Castenedolo (BS) - ITALIA
	[6] Sites audited: identical
СЕРТИФИКАТ	[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.
ЪЙ	[8] This notification is based on audit report no. R 21 EX 015 issued on 02.03.2021
CEP1	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.
提 認	[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.
記念書	This notification may only be reproduced in its entirety and without any change.
•	First issue date: 26.03.2021 Issue date: 26.03.2021
ICATE	PRD N° 081B
CERTIFICATE	Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements 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
ZERTIFIKAT	REV 01 M011 -10 4-107/08/2018
ZEI	PEX-01-M011_r10 del 07/08/2018 TÜV Italia • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • www.tuvsud.com/it ستتلالا®

Pag 17/20





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

## Декларация соответствия UA

Motive srl с главным офисом в Castenedolo (BS) – Italy (Италия)

заявляет как производитель под свою исключительную ответственность, что его продкция

#### асинхронные электродвигатели серии «DELPHI»

соответствует следующим директивам и стандартам:

 Директива ЕС 2014/34/UE: относительно «оборудования и защитных систем, предназначенных для использования в потенциально взрывоопасных средах»

Маркировка:



II 2D Ex tb IIIC T135°C Db Tamb=-20 +40 °C

II 2G Ex eb IIC T4 Gb

Маркировка*:



II 2G Ex eb IIC T3 Gb II 2D Ex tb IIIC T135°C Db Tamb=-20 +50 °C

* Маркировка применима только к двигателям DELPHI Ex IE3

Номер сертификата

(отредактировал CEPTIC-ЦЕНТР, номер нотифицированного органа UA.TR.115): СЦ 21.А.0648 X

как по украинским стандартам:

- ДСТУ EN 60079-0:2017 (ЗІ ЗМІНОЮ 11:2017) Взрывоопасные среды. Часть 0. Оборудование. общие требования
- **ДСТУ EN 60079-7:2017** Взрывоопасные среды. Часть 7. Электрическое оборудование. Вид взрывозащиты: повышенная безопасность «е»
- ДСТУ EN 60079-31:2017 Взрывоопасные среды. Часть 31. Электрическое оборудование. Вид защиты от воспламенения пыли: оболочка «t»

Машины поставляются без электрических подключений к панелям управления или без каких-либо пневматических и гидравлических подключений. Поэтому запрещено использовать их до тех пор, пока завод, в который они включены, не будет объявлен соответствующим положениям Директивы по машинному оборудованию **2006/42/EC** и Директивы **2014/34/UE**, а анализ предприятия не был проведен как

Бридический представичеля соор

соответствующий Директиве 99/92/ЕС.



	わから つんから こく ひつしからしやう	ТОВ «СЕРТІС орган з оцінки відповід 9113, Україна, Київська область, м. Бі +38 (0456) 381-700, E-mail: info@sert	ності продукції іла Церква, вул. Фастівська	2 March 10 Mar
(1)	СЕРТИ	ФІКАТ ЕКСПЕРТИ	ІЗИ ТИПУ	
(2)		регламент обладнання та захис вибухопебезпечних середовищах		
(3)	Номер серти	фіката: СЦ 21.0648 Х	Ho	мер видання: 0
(4)	Обладнання	: 3-фазні асинхронні електродві	игуни серії DELPHI	
(5)	Заявник;	Motive srl, Via Le Ghiselle, 20 -	25014 Castenedolo (BS),	Italy - Irania
(6)	Виробник:	Motive srl, Via Le Ghiselle, 20 -	25014 Castenedolo (BS),	Italy - Італія
(7)		ання та його припустимих варіаці здатку до сертифіката.	й, а також документація,	на яку даються посилання,
(8)	призначений регламенту, встановлена безпеки відн в потенційно	С-ЦЕНТР», орган з оцінки відп виконувати роботи з оцінки затвердженого постановою КМУ відповідність вказаного обладнан осно технічного проекту та конст вибухонебезпечних середовищах осліджень та випробувань наведен	и відповідності проду від 28 грудня 2016 р. N іня суттєвим вимогам ст рукції обладнання, приз , які наведені в Технічно	кції вимогам Технічного 1055, посвідчує, що була осовно захисту здоров'я та наченого для використання му регламенті.
(9)		ь обладнання суттевим вимога виконанням вимог наступних стан		доров'я та безпеки була
		0079-0:2017 (зі зміною 11:2017 0079-31:2017	7), ДСТУ EN 60079-7:	2017,
(10)	Якщо в кіни застосовуюти	ці номера сертифіката присутній ься особливі умови використання,	й знак «Х», то це посі які наведені у додатку д	відчує, що до обладнання о цього сертифіката.
(1,1)	Цей сертифі типу) згідно зазначеного зазначеного	кат виданий внаслідок проведенн з Технічним регламентом та ст обладнання згідно з узгоджен обладнання згідно з Технічним р модулів оцінки відповідності.	и опінки відповідності осується лише технічно ою технічною докумен	за Модулем В (експертиза эго проекту та конструкції агацією. Введення в обіг
(12)	Марковання	обладнання повинно містити наст	упне:	
	Ex H 2G F	Ex eb IIC T4 Gb, II 2D Ex th III	C T135 °C Db	
		x eb IIC T3 Gb,II 2D Ex tb III 111119 IE3	C T135 °C Db, -28 °C≤	Та≤+50 °С - для
	Керівник орг	ану з оцінки відповідность (СЕР)	пантр П	К.В. Меженков
00023	200000000000000000000000000000000000000	05.2021 p.		Аркуш 1 з 3

	Certificate No.: IECEX INE 11.0037X Issue No.: 01 Page 2 of 4
Certificate history: Issue No. 1 (2018-03-14) Issue No. 0 (2012-02-24)	וחליצאוווא"וה-ארכהסיון אוו אבואי אבאווא
	Marking has to be readable and indelible; it has to include the following indications:
COEL MOTOR! S.r.I Via campania, 40 1 - 20090 Fizzonasco di Pieve Emanuele (M) taly	<ul> <li>A- Electromagnetic brake for group II:</li> <li>COEL MOTORI S.r.l</li> <li>I - 20090 Fizzonasco di Pieve Emanuele</li> </ul>
Electromagnetic Brakes type VIS II	VIS.ILC) IECEX INE 11.0037X (Seriat number)
db and tb	Ex db IIB or IIC T(**) Gb T_anb (***)
Exceb IB or IIC T5, T4 or T3 Gb Exceb IMb Exceb IMb Exceb IMb Exceb IMb Exceb IMb For T135°C or T200°C Db Exceb II C T100°C, T135°C or T200°C Db P66	1.cable : 80°.C Pb6. WARNING: DO NOT OPEN WHEN ENERGIZED IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. One of the following types : VIS II 63/71, VIS II 80/90, VIS II 100/112, VIS II 132/160, VIS II 180/200, VIS II 250/280, VIS II P25, VIS II P150, VIS II 315, VIS II P350 or VIS II P750.
Approved for issue on behalf of the IECEX Thierry HOUEIX (** Certification Body: B-1	(**) See table below. B- Electromaenetic brake for group III:
Ex Certification Officer	COE MOTORIS r
NERIS) Abuda	1 - 20090 Fizzonasco di Pieve Emanuele VIS II(*)
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