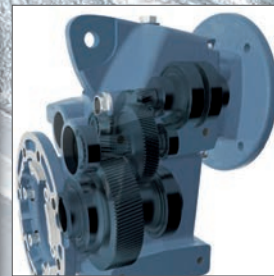
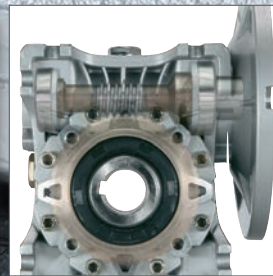
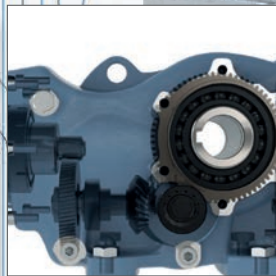
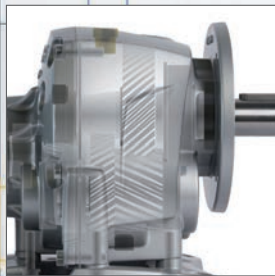
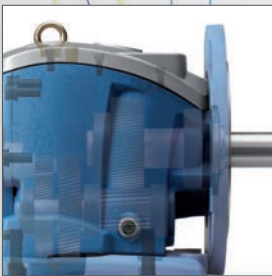
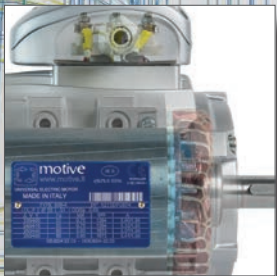


# GENERAL CATALOGUE





# CERTIFICATO

Nr. 50 100 1185 Rev.012

SI ATTESTA CHE / THIS IS TO CERTIFY THAT  
IL SISTEMA DI GESTIONE PER LA QUALITÀ DI  
THE QUALITY MANAGEMENT SYSTEM OF



**motive**  
**MOTIVE S.r.l.**

SEDE LEGALE E OPERATIVA:  
REGISTERED OFFICE AND OPERATIONAL SITE

VIA LE GHISSELLE 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 ed  
inverter (IAF 19, 18)**

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



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

Validità / Validity

Dal / From: 2025-03-03

Al / To: 2028-03-02

Data emissione /  
Issuing Date

2025-02-03

**PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2001-07-20**

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SOTTOPOSTA A SORVEGLIANZA PERIODICA A 12 MESI E AL PRESUME COMPLETO DEL SISTEMA DI  
GESTIONE AZIENDALE CON PARTICOLARE 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 • Viale Fulvio Testi, 280/6 • 20126 Milano • Italia • [www.tuvsv.com/it](http://www.tuvsv.com/it)

TUV®



Autorizzazione AEO

IT AEOF 21 1809

1. Titolare dell'Autorizzazione AEO

MOTIVE S.r.l.  
Codice EORI IT03580280174

3. Stabile organizzazione

2. Autorità che rilascia l'Autorizzazione

Agenzia delle Dogane e dei Monopoli  
Direzione Centrale Dogane  
Ufficio AEO, compliance e grandi imprese

Il Titolare indicato nel riquadro 1 è un

Operatore economico autorizzato  
Semplificazioni doganali / Sicurezza (AEOF)

3. Data di validità dell'Autorizzazione 15/05/2021

Il Direttore dell'Ufficio

*[Signature]*

# CERTIFICATE

**EU-TYPE EXAMINATION CERTIFICATE**  
Equipment or Protective System intended for use  
in potentially explosive atmospheres  
Directive 2014/34/EU

- (1)
- (2)
- (3) EU-Type Examination Certificate number:  
**TUV IT 20 ATEX 048 X Rev 1**
- (4) Equipment or Protective System: Three-phase asynchronous electric motors DELPHI series
- (5) Manufacturer: **MOTIVE S.r.l.**
- (6) Address: **Via Le Ghiselle 20  
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.
- (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.
- (9) The examination and test results are recorded in confidential report no. R 20 EX 046 Rev. 1.
- (10) 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**
- (11) 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.
- (12) 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.

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

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

Issue date: 12th March 2025  
1st Issue date: 17th February 2021



PRD N° 0818

Membro degli Accordi di Mutua Riconoscenza  
Signatory of EA, IAF and IAC Mutual Recognition Agreements

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

*[Signature]*  
Industry Service - Real Estate & Infrastructure  
Managing Director

page 1 di 14



VISIT AND KNOW MOTIVE THANKS TO  
THE MOVIE ON [WWW.MOTIVE.IT](http://WWW.MOTIVE.IT)



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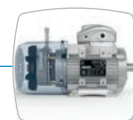
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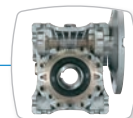
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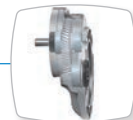
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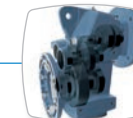
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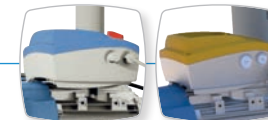
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## DELPHI

## SIZES 56 -132

Motive motors are built according to international standard regulations; each size throughout the construction forms is calculated with reference to the tables of standard IEC 72-1.

The frame, up to 132 included, is made in die casting aluminium alloy, from size 160 up to 355 the frame is made in cast iron.

All DELPHI motors are  
three-phase,  
multiple voltage  
multi-frequency 50/60Hz,  
F class insulation, (H+ on request)  
S1 continuous duty service,  
IP55 protection (IP56, 66 and 67 on request)  
IE2 or IE3 efficiency class  
tropicalized winding  
suitable for inverter power supply

**IE2, high efficiency class IEC 60034-30-1**

**IE3, premium efficiency class IEC 60034-30-1**

**IE4, super premium efficiency class IEC 60034-30-1**

type	of	power
56	aluminum	0,09kW-1,1kW
63		
71		
80		
90		
100		
112	cast iron	4kW-315kW
132		
160		
180		
200		
225		
250		
280		
315		
355		

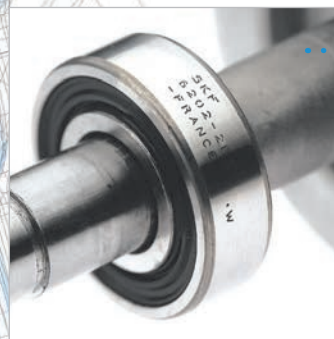


Know DELPHI 56-132 on  
<http://www.youtube.com/watch?v=G2EW0uOHijU>

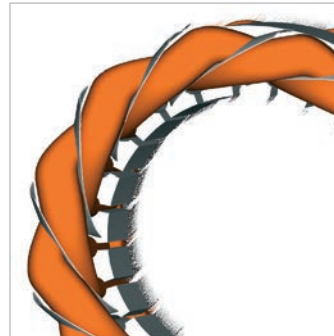
Available also in "Ex" version,  
ATEX certified



II 2G Ex eb IIC T6, T5, T4, T3 Gb  
II 2D Ex tb IIC T85°C...T120°C IP65 Db  
Tamb=-20+40°C...+60°C



Bearings selected for their silence and reliability and, for the same objectives, the cage rotor is dynamically balanced.

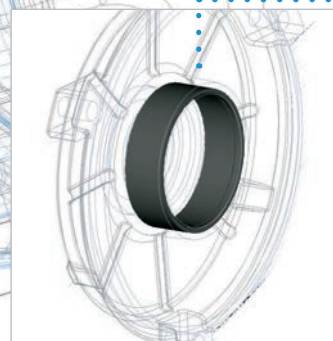


The copper is impregnated with a double layer of insulating enamel to ensure high resistance to electrical, thermal and mechanical stress.

The phases are further isolated by another layer of Nomex film to protect the motors from the voltage peaks that usually occur when the motor is controlled by an inverter.



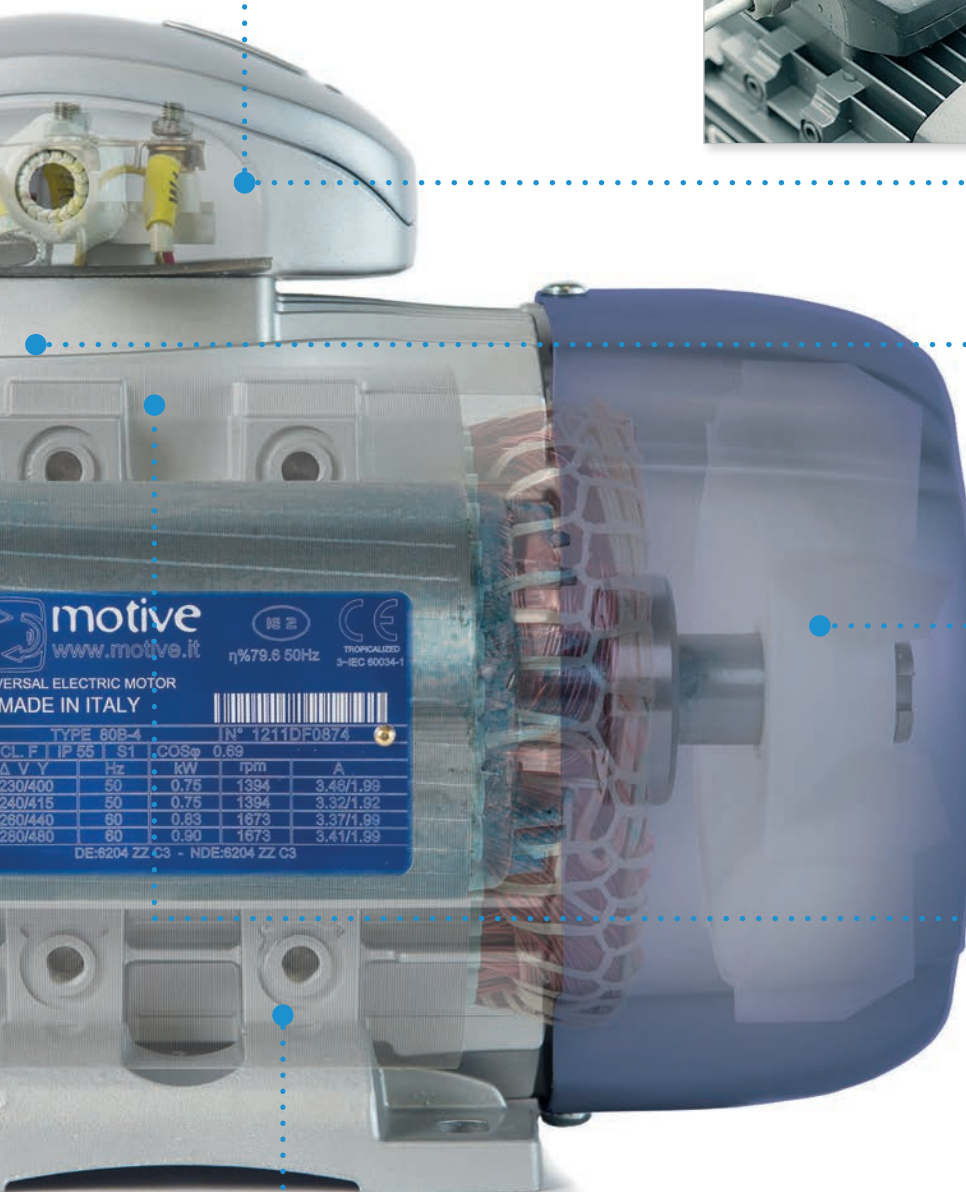
All three-phase Delphi motors, from size 56 to size 355, standard, ATEX, or brake motors, are covered by the international type approval certification for marine use issued by RINA.



From type 90, a steel insert is provided in the bearing slot of the aluminum flanges, to resist to radial mechanical forces with a fair degree of security



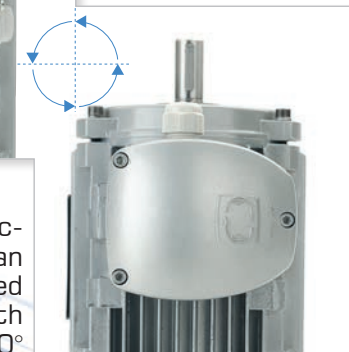




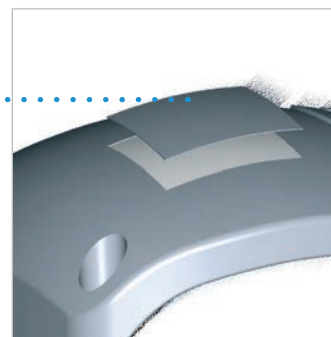
Aiming the maximum protection, the motors are equipped with important details like the pull-resistant cable gland and the combination of bearings with two shields each with rubber seal rings



Cable gland can be easily moved on both the sides of the connection box, thanks to the screw cap



The connection box can be rotated of 360° with steps of 90°



To protect them by the rust, motive motors are painted

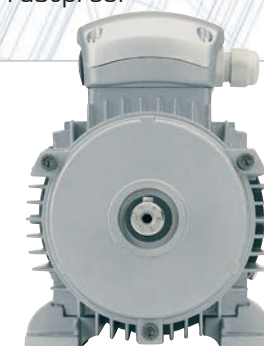
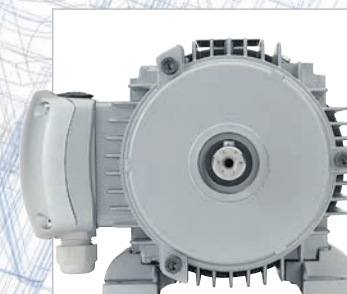


Very thick and made of a special plastic material, the fan cover is:

- impact resistant
- soundproofing
- scratchproof
- rustproof



Performance excellence is granted by the low loss CRNO "FeV" magnetic laminations adoption, instead then the usual Semi Processed/Decarb "FePO1". FeV laminations provide higher efficiency, lower heating, energy saving and longer life to insulation materials



From size 56 to size 132, feet are detachable, and can be fixed on 3 sides of the housing, thus permitting the terminal box to be positioned up, right or left.



Motive three phase motors from size 160 up to size 355 are made in cast-iron and have all those main features of the Delphi series, among which:

- standardized dimensions according to International standards (IEC 72-1)
- multiple voltage and multi-frequency 50/60Hz,
- F class insulation, [upon request H or H+ (delfire)]
- S1 continuous duty service,
- IP55 protection (IP56, 66 and 67 on request)
- tropicalized winding and reinforced insulation
- suitable for inverter power supply\* [from 110kW and up we recommend to order the motor with insulated barings (option)]

**IE2, high efficiency class IEC 60034-30-1**

**IE3, premium efficiency class IEC 60034-30-1**

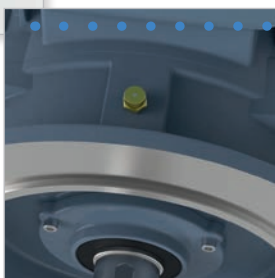
**IE4, super premium efficiency class IEC 60034-30-1**



Keeping the same sealing system of the whole delphi series, the terminal box up to size 280 is made in aluminum, thus guaranteeing its IP65 protection index without being affected by the usual finishing imperfections of the cast iron



From size 160 up to 280, we mount ZZ auto-lubricated bearings, thus avoiding the need of a periodical re-greasing maintenance



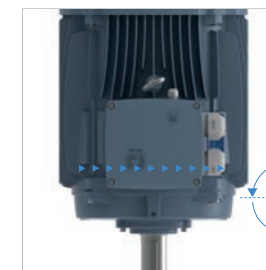
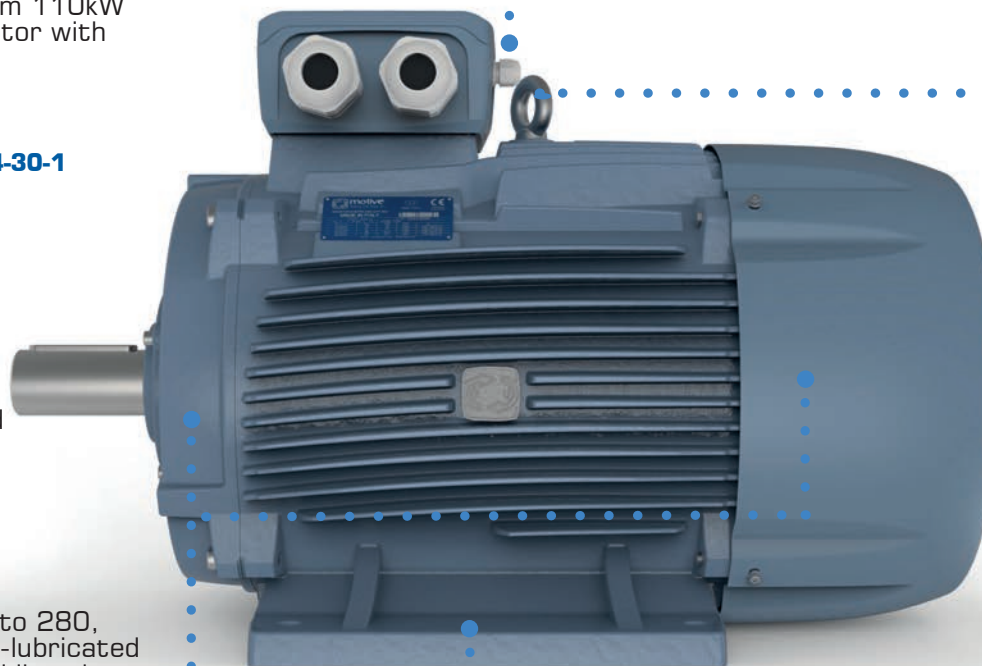
Instead, from size 315 and up, they are provided with lubricators. 4, 6 and 8 poles motors drive end bearings are in fact of open roller type, in order to withstand eventual extraordinary radial loads (see paragraph "components list")



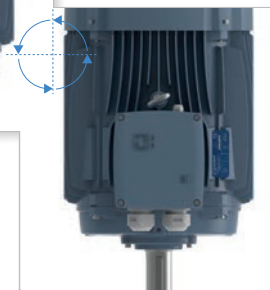
provided with 3 PTC thermistors that protect the motor and the system by operation anomalies



equipped by lifting eyebolts [one for B3 version (feet fixing), two for B5 version (flange fixing)]



The terminal box can be rotated of 360° with steps of 90°



Given the high torque, the fixing from size 180 up is ensured by feet integrally casted with the housing

Available also in "Ex" version, ATEX certified



II 2G Ex eb IIC T6, T5, T4, T3 Gb  
II 2D Ex tb IIC T85°C...T120°C IP65 Db  
Tamb=-20+40°C...+60°C



Know  
**DELPHI 160-355 on**  
<https://youtu.be/pXvckximmvA>

Upon request, motive can anyway mount the terminal box laterally, on the right or the left



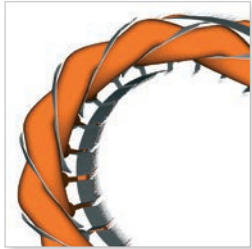


## MONO

Motive motors 1PH are built according to international standard regulations; each size throughout the construction forms is calculated with reference to the tables of standard IEC 72-1.

The frame is made in die casting aluminium alloy.

All MONO motors are single phase 230V 50Hz. On request 60Hz and special voltages  
F class insulation, (H on request)  
S1 continuous duty service,  
IP55 protection (IP56, 66 and 67 on request)  
on request extra capacitor for high starting torque



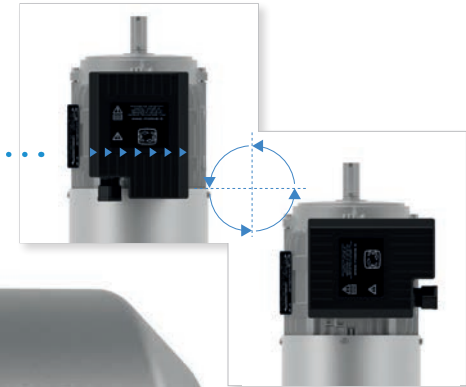
The special winding permits a good starting torque even without a double capacitor start/run



Bearings selected for their silence and reliability and, for the same objectives, the rotor is dynamically balanced.



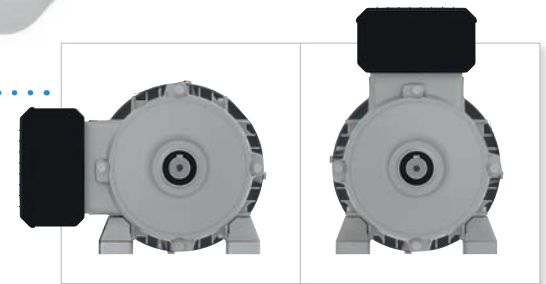
Aiming the maximum protection, the motors are equipped with important details like the pull-resistant cable gland and the combination of bearings with two shields each with rubber seal rings



The connection box can be rotated

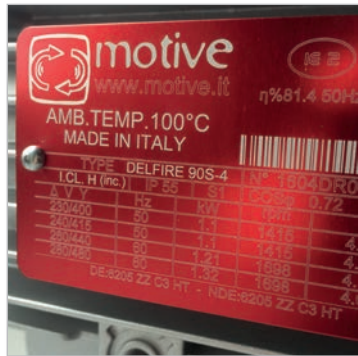
kW	type	
	2 poles	4 poles
0,18	63A-2	63B-4
0,25	63B-2	71A-4
0,37	71A-2	71B-4
0,55	71B-2	80A-4
0,75	80A-2	80B-4
1,1	80B-2	90S-4
1,5	90S-2	90L-4
2,2	90L-2	100LA-4
3		100LB-4
4		112M-4

Feet are detachable, and can be fixed on 3 sides of the housing, thus permitting the terminal box to be positioned up, right or left.





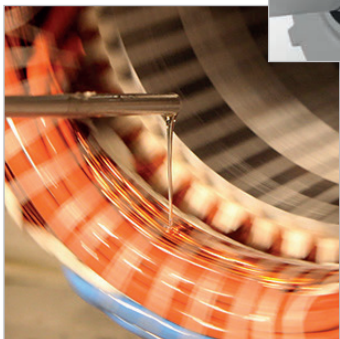
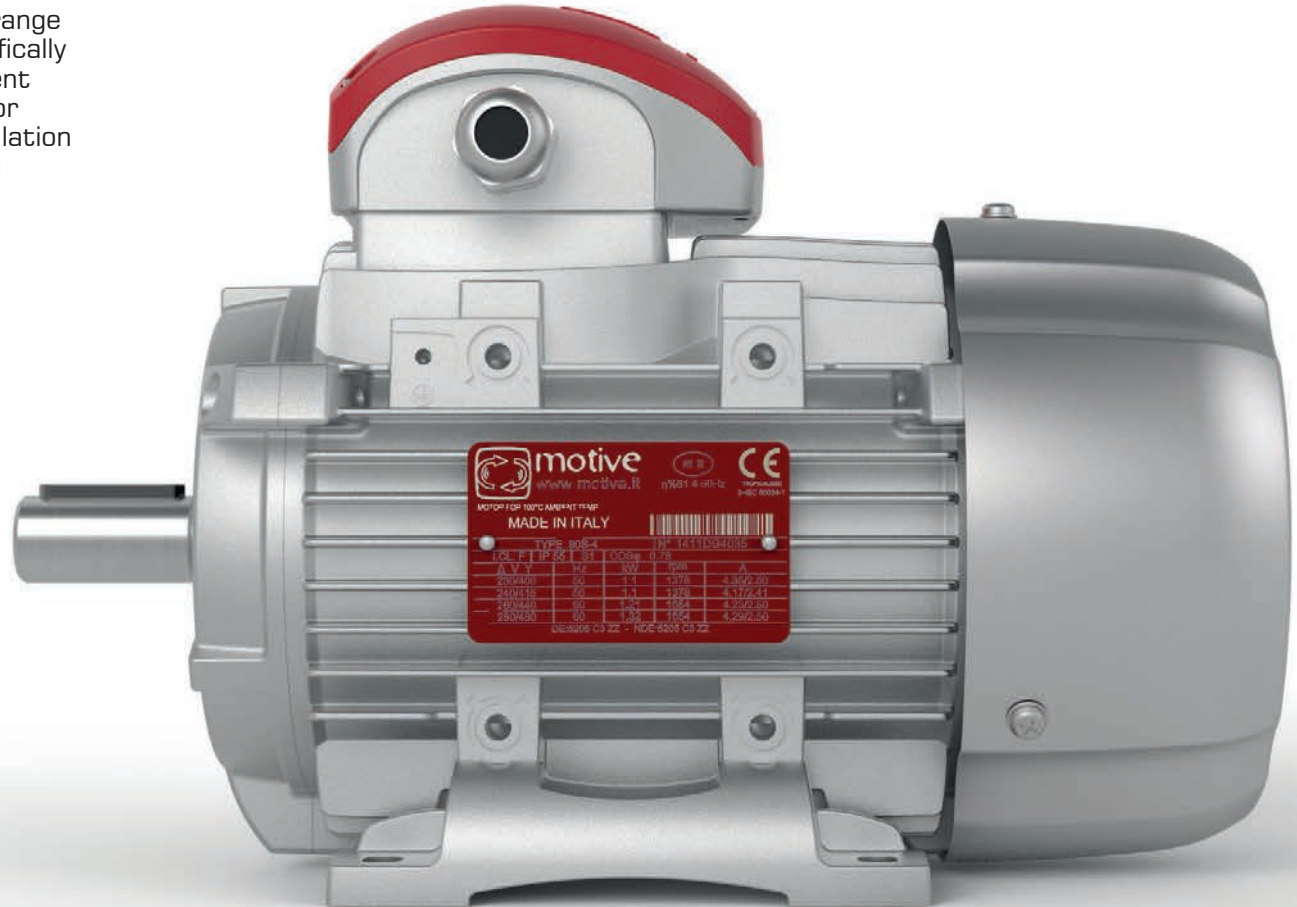
## DELFIRESERIES, 100°C RESISTANT MOTORS



“DELFIRESERIES” is an innovative range of three phase motors specifically designed to work in an ambient temperature of 100°C, like for instance the one of the ventilation of furnaces and dryers, in S1 continuous duty

The used technology finds its origin in EN 12101-3 fire emergency motors for smoke evacuation, but instead of being intended for working for few hours only, it is designed to offer an S1 continuous duty service and the same lifespan of a normal motor in a normal ambient. The main features are:

- metal cable glands and ventilation, viton gaskets and seals, high temp bearings, steel bearing seats



- defluxed winding for a low temp rise, dual coated magnet wires, increased H class:
  - Double impregnation: varnished twice and re-baked. The process assures the coverage of pin holes. The increased solid content layer increases the high voltage capacity of the motor and better protects it against surge voltages. The increased parasitic capacitance gives a higher impulse withstand capacity;
  - Gel Coat: the stator is then further protected by an epoxy compound which cures fast under hot conditions. Epoxy has very good fungus resistance properties, thus avoiding tracking failure, drastically reducing the service life of the motor. Epoxy also exhibits very good resistance to alkali as well as acids. Epoxy coating also allows for condensing humidity. The smoothly finished surface does not allow liquid water to stay on the windings

type	pole	made of	kW
71	2, 4, 6	aluminum	0,18 - 7,5
80			
90			
100			
112			
132			
160	2, 4, 6	cast iron	7,5 - 55
180			
200			
225			
250			



## SELF-BRAKING MOTORS - SERIES DELPHI AT

Delphi ATDC, AT24 and ATTD series self-braking motors use one or 2 spring-pressure brakes, firmly spliced onto a cast iron shield at the back of the motor.

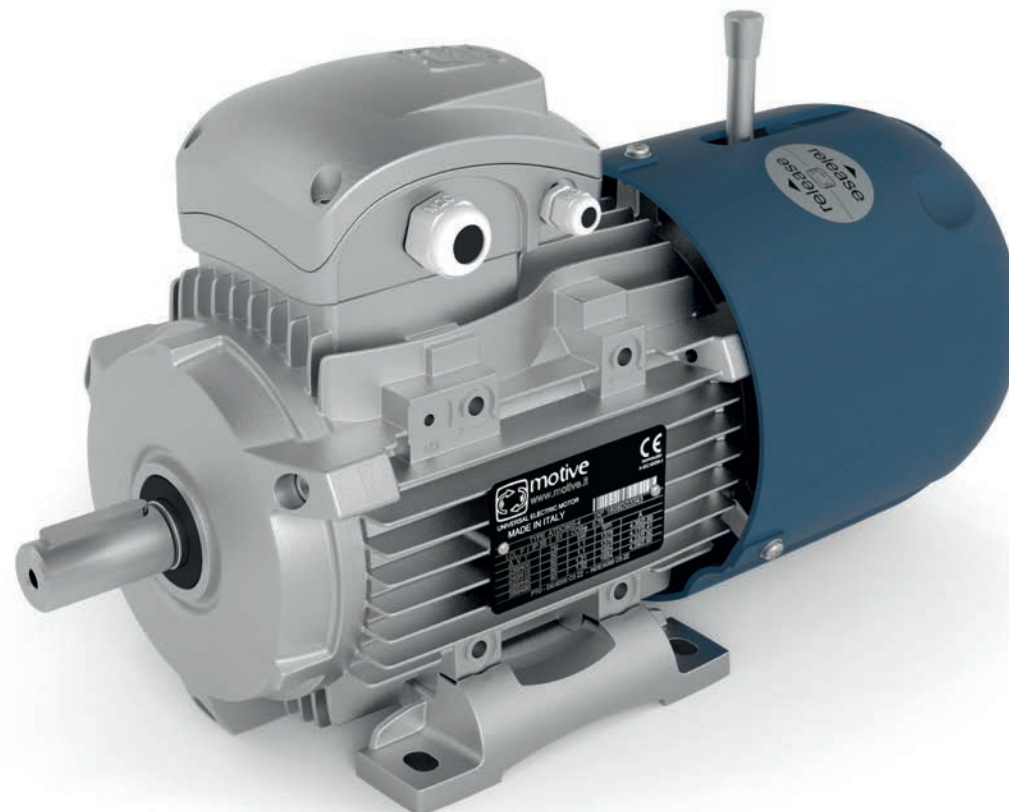
These motors include a series of characteristics normally considered options by other brands, like:

- The standard hand lever permits to release the brake, making it possible to move manually the shaft,
- Thermal protectors embedded in the winding for all frame sizes.
- Easy separate connection of the brake in case that the motor is connected to an inverter.

On ATDC and ATTD, the separate brake power supply is achieved, whenever needed, by connecting directly to the brake terminal board located inside the motor terminal box.

On AT24, the 24Vdc single or double brakes are designed to be directly connected to an inverter (usually having a 24Vdc plug)

On request, the brakes can be modified to be extremely silent for usage in special environments like theatres



**IE2, high efficiency class IEC 60034-30-1**

**IE3, premium efficiency class IEC 60034-30-1**

**IE4, super premium efficiency class IEC 60034-30-1**

The standard version has an IP55 protection index. Also available in IP56, IP65, and IP66 versions.

IEC Type	ATDC						AT24				ATDC AT24	ATTD
	Static max braking torque [Nm]	standard vers. braking time no-load [Sec]	"TA version" braking time no-load [Sec]	input voltage on rectifier [Vac]	output voltage to brake [Vdc]	brake power [W]	Static max braking torque [Nm]	Static min braking torque [Nm]	Braking time no-load [Sec]	brake power [W]	extra Kg on std	extra Kg on std
AT..63	4,5	0,15	<0,05	220-280 (opt. 380-480)	99-126 (opt. 171-216)	20	4,5	4,0	0,06	20	+4	+7,5
AT..71	8,0	0,15	<0,05	220-280 (opt. 380-480)	99-126 (opt. 171-216)	28	4,5	4,0	0,06	20	+5	+9
AT..80	12,5	0,20	<0,05	220-280 (opt. 380-480)	99-126 (opt. 171-216)	30	10,0	9,0	0,09	25	+5,5	+10
AT..90	20,0	0,25	<0,05	220-280 (opt. 380-480)	99-126 (opt. 171-216)	45	16,0	12,0	0,11	45	+6	+11
AT..100	38,0	0,30	<0,05	220-280 (opt. 380-480)	99-126 (opt. 171-216)	60	32,0	28,0	0,14	60	+7	+12,5
AT..112	55,0	0,35	<0,05	380-480	171-216	65	60,0	55,0	0,15	65	+10	+19
AT..132	90,0	0,40	<0,05	380-480	171-216	90	90,0	80,0	0,16	85	+12	+23
AT..160	160,0	0,50	<0,05	380-480	171-216	110	160,0	130,0	0,21	105	+22	+42
AT..180	250,0	0,50	<0,05	380-480	171-216	130					+32	+62
AT..200	420,0	0,50	<0,05	380-480	171-216	140					+40	+77
AT..225	450,0	0,50	<0,05	380-480	171-216	160					+52	+100
AT..250	550,0	0,50	<0,05	380-480	171-216	170					+80	+155
AT..280	900,0	0,50	<0,05	380-480	171-216	360					+106	+209
ATTD	ATTD = ATDCx2					ATTD = ATDCx2						



## BOX

BOX	max Nm (4 poles)	motor type								
		56	63	71	80	90	100	112	132	160
25	13									
30	19									
40	39									
50	74									
63	135									
75	205									
90	360									
110	675									
130	850									
150	1200									



Know **BOX** on  
<http://www.youtube.com/watch?v=QqGmfrDq7A&feature=youtu.be>

Available also in "Ex" version,  
 ATEX certified



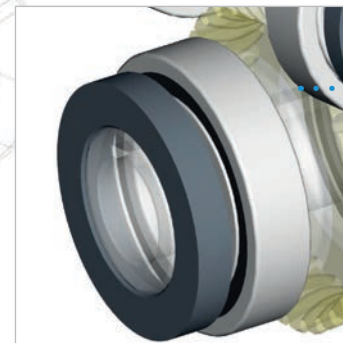
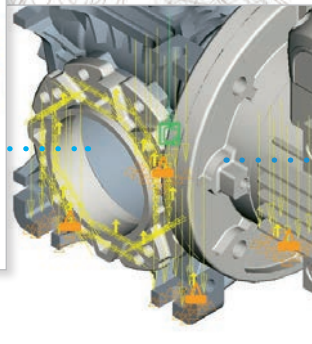
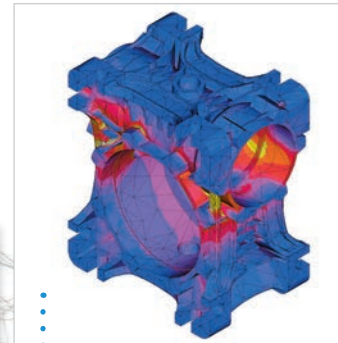
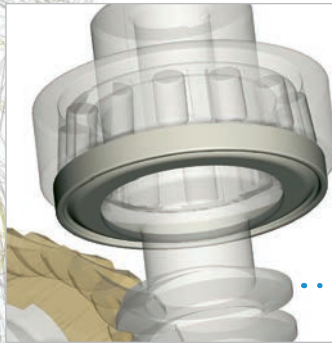
II 2G c IIB T4  
 II 2D c IIB T135°C  
 Tamb = -20 +40 °C

From type 75 and up, 2 taper roller bearings are mounted on the wormshaft/wheel.

Moreover, the combination of this characteristic and 2 pilots (mounted on size 75 and up to keep lubrication grease inside the bearings even when they are not touched by the oil bath), permits the mounting of the whole BOX range, from the size 25 to the size 150, in the positions V5 and V6 without any need of additional interventions.

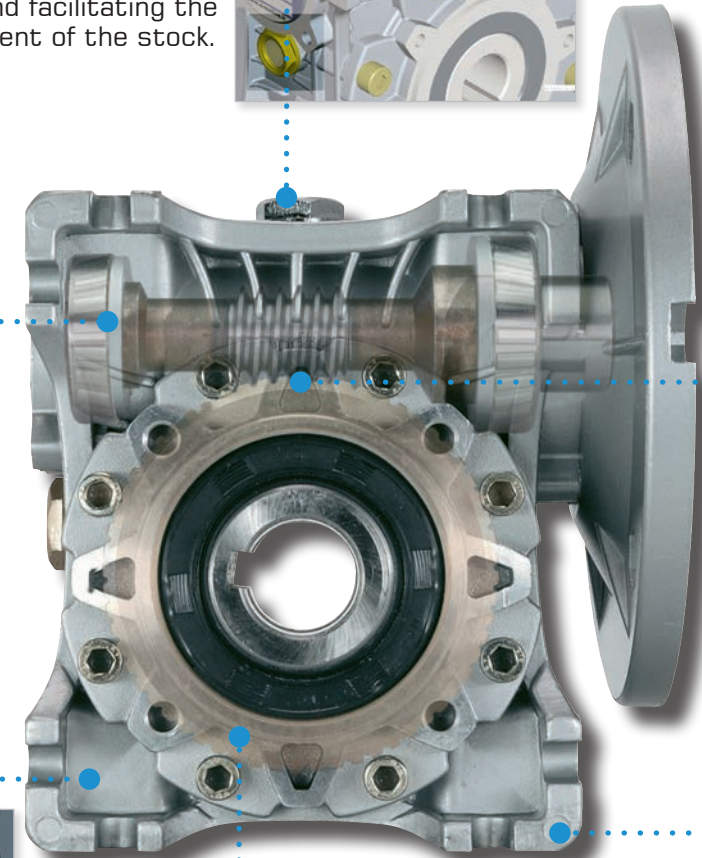
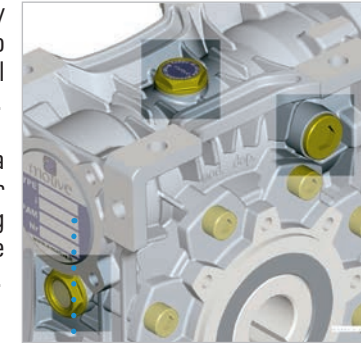
The new patented "BOX" series of worm gear units is made with die-casting aluminium housing from size 25 up to 90, and in cast iron from size 110.

The housing has been designed with parametric three-dimensional CAD SW supported by programs of analysis of the thermal dissipation capacity and the structural resistance/deformation.



Lubrication is already provided by motive with long-life synthetic oil up to size BOX90, and with mineral oil from size BOX110.

The gear unit is equipped with a full set of filler, level and breather plugs, permitting all mounting positions and facilitating the management of the stock.



Mounting positions B6 or B7 are also permitted on all the BOX series, thanks to the adoption of 2RS auto-lubricated bearings on the output gear.

In conclusion, the whole BOX series can be mounted in any position with no need of specifications in the order.



An epoxy paint coat cancels the negative effects of the aluminium porosity and protects the housing from oxidation.



In order to increase silence, efficiency and duration, the wormshaft is made in case hardened steel and ground machined, while the worm wheel is in shell cast ZCuSn12 bronze.

2 safety plastic covers on the output are always provided to protect BOX during transportation and storage, and then the user from accidental contacts with moving parts



Mating surfaces are machined for a perfect planarity.

## STADIO

### Design features

STADIO construction is modular and therefore it can be supplied as a separate unit to be mounted on any type of fitted geared motor (PAM).

It is not requested any part pre-mounting on the motor shaft.

Like all connectable motive motors and gearboxes, STADIO is supplied by Motive with synthetic oil suitable for the whole lifetime. No maintenance requested.

Like all connectable gearboxes and motors manufactured by Motive, the whole STADIO range can be mounted in any position with no need of specifications in the order.

The pre-stage unit cannot be used by itself, but only coupled with another reduction unit.

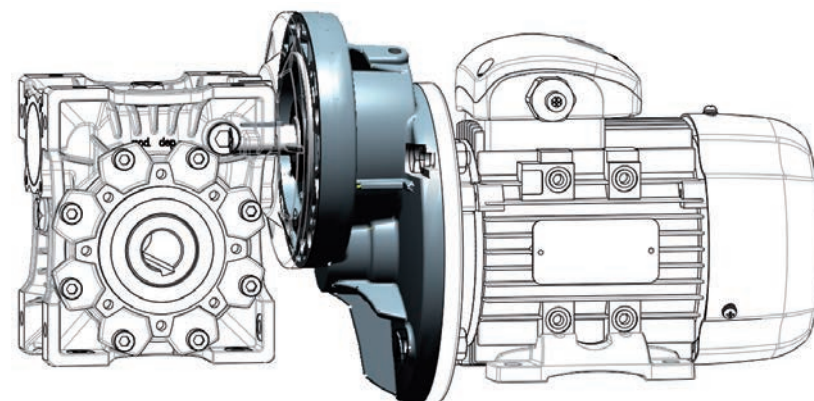
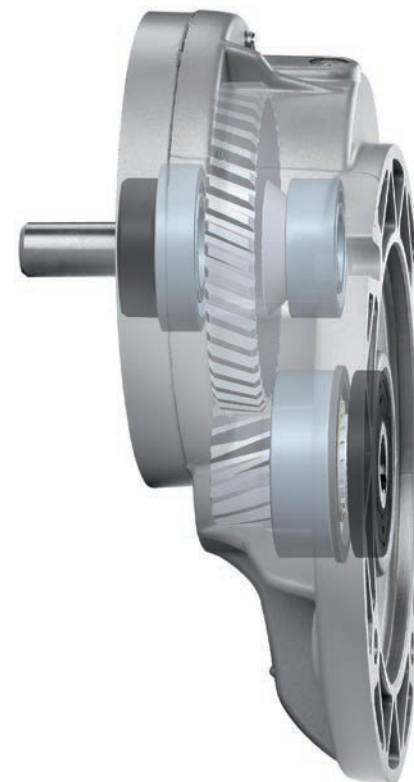
A powder paint coat cancels the negative effects of the aluminium porosity and protects the housing from oxidation.

In order to increase silence, efficiency and duration, gears are made in case hardened (HRC59-63) tempered steel 20CrMnTi (UNI7846) accurately ground on the involute.

Available also in "Ex" version, ATEX certified



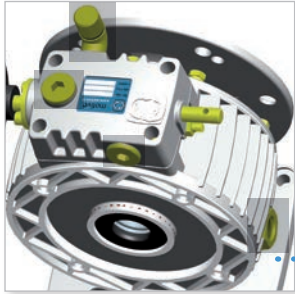
II 2G c IIB T4  
II 2D c IIB T135°C  
Tamb = -20 +40 °C



	motor flange
STADIO-63	63B5
STADIO-71	71B5
STADIO-80	80B5
STADIO-90	90B5

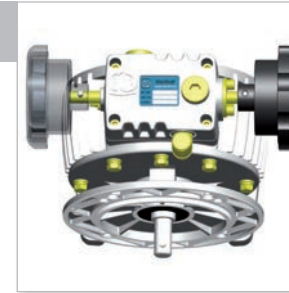


## VARIO



Each VARIO is equipped with filler, level and breather plugs to make it suitable for any mounting position.

The new planetary cone disc variators of the patented series VARIO are built in an aluminium die-casted housing in 3 sizes: small, medium and large, respectively for motors of IEC size 63, 71 and 80.



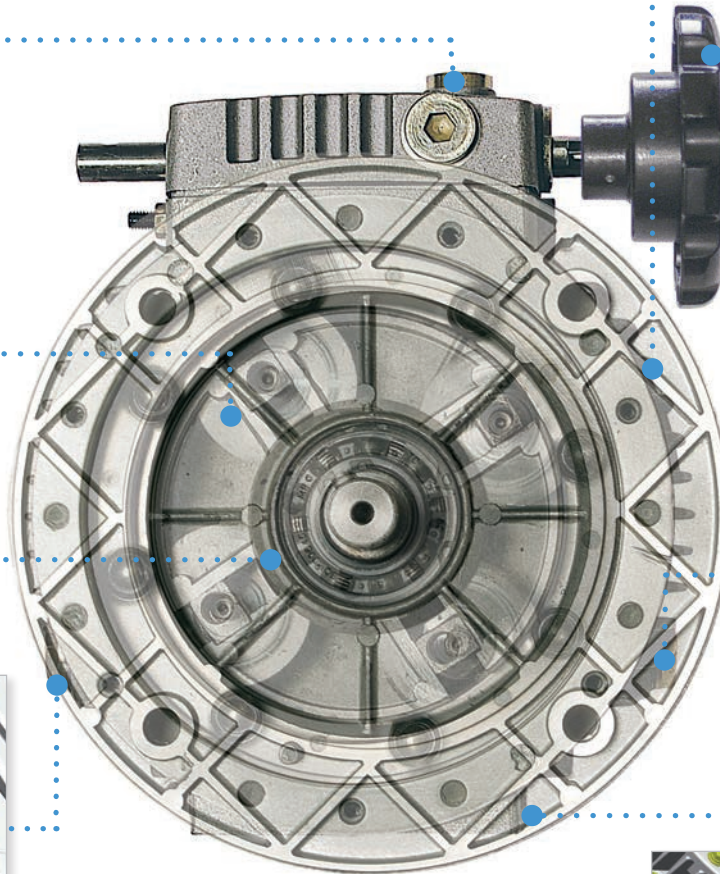
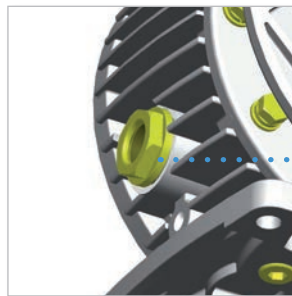
VARIO can operate in both directions, input and output shafts rotate in the same direction. Hand wheel can be fitted to both sides of control box for convenient installation.

Each VARIO is equipped with filler, level and breather plugs to make it suitable for any mounting position.

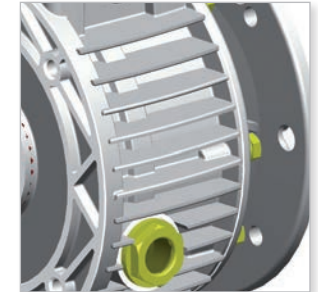
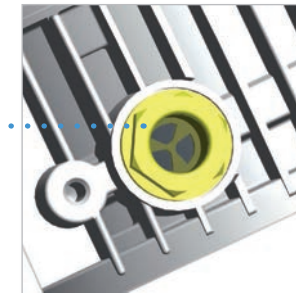


TC double lip oil seals.

A filler plug is magnetic too, in order to maintain clean the lubricant and extend the maintenance intervals.



The oil bath operation provides high efficiency, low noise, vibration free running.



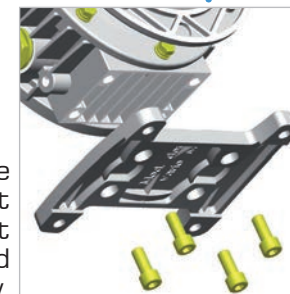
The closed input flange is an integral part of VARIO casing, preventing oil leaks possibilities.



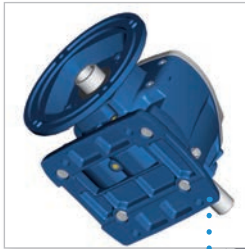
The housing and flanges are blasted and then painted, to cancel the negative effects of the aluminium porosity and protect VARIO from oxidation.

VARIO	max kW (4 poles)	motor type		
		63	71	80
VARIO-S	0,13-0,18			
VARIO-M	0,25-0,37			
VARIO-L	0,55-0,75			

The standard unit is including the motor B5 flange connection, but it allows to fix the detachable foot too, reducing stock levels and allowing quick delivery.



Uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and Flange ensure extreme robustness.



## ROBUST

Available also in "Ex" version,  
ATEX certified  
II 2G c IIB T4  
II 2D c IIB T135°C  
Tamb= -20 +40 °C



Easy to examine and maintain.

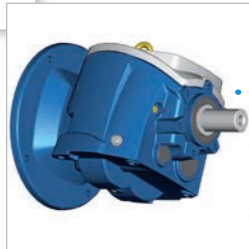
Minimum maintenance requirement.  
All sizes are supplied with long-life synthetic oil.



A large top cover in light weight aluminium alloy facilitates the inspection



Modular design with detachable output flange and foot base allows easy and quick conversion between foot and flange mounting



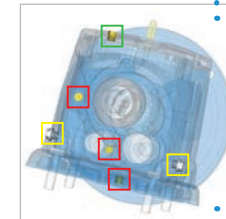
IEC flange and hollow shaft.

Choice of hollow input flanges permits direct mounting of any standard motor



Unique construction of Robus makes it possible to mount any size in any position.  
This flexibility is achieved by:

+ ZZ autolubricating bearings on input and output shaft



6 interchangeable plugs, including one breather plug and a level plug. Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox



Various detachable foot bases in solid cast iron make Robus interchangeable with any other gearbox brand



ROBUS	max Nm (4 poles)	motor type									
		63	71	80	90	100	112	132	160	180	200
A2	165										
25	350										
30	450										
35	700										
40	1100										
50	2500										
60	4300										



Know ROBUS on  
<http://www.youtube.com/watch?v=-5Givjw5NCg&feature=youtu.be>



## ROBUS-A2



Main body of a single piece of aluminum, for an optimal compromise between weight, rigidity and precision

Available also in "Ex" version, ATEX certified



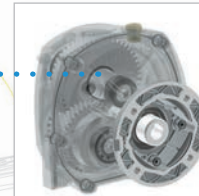
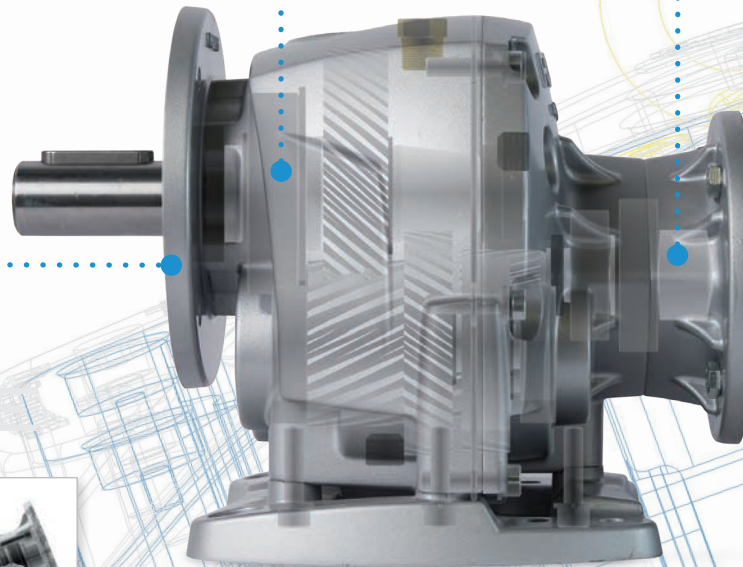
II 2G c IIB T4  
II 2D c IIB T135°C  
Tamb = -20 +40 °C



Modular design with detachable output flange and foot base allows easy and quick conversion between foot and flange mounting



A removable base, with several fixing holes, makes ROBUS-A2 interchangeable with most of the gearboxes brands



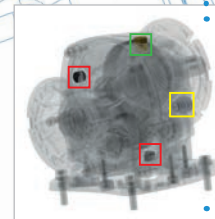
IEC flange and hollow shaft. Choice of hollow input flanges permits direct mounting of any standard motor

Minimum maintenance requirement. All sizes are supplied with long-life synthetic oil.



Unique construction of Robus-A2 makes it possible to mount any size in any position. This flexibility is achieved by:

+ ZZ autolubricating bearings on input and output shaft



+ 4 interchangeable plugs, including one breather plug and a level plug. Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox



+ mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings



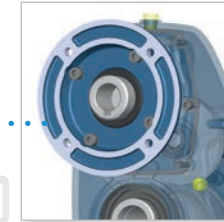
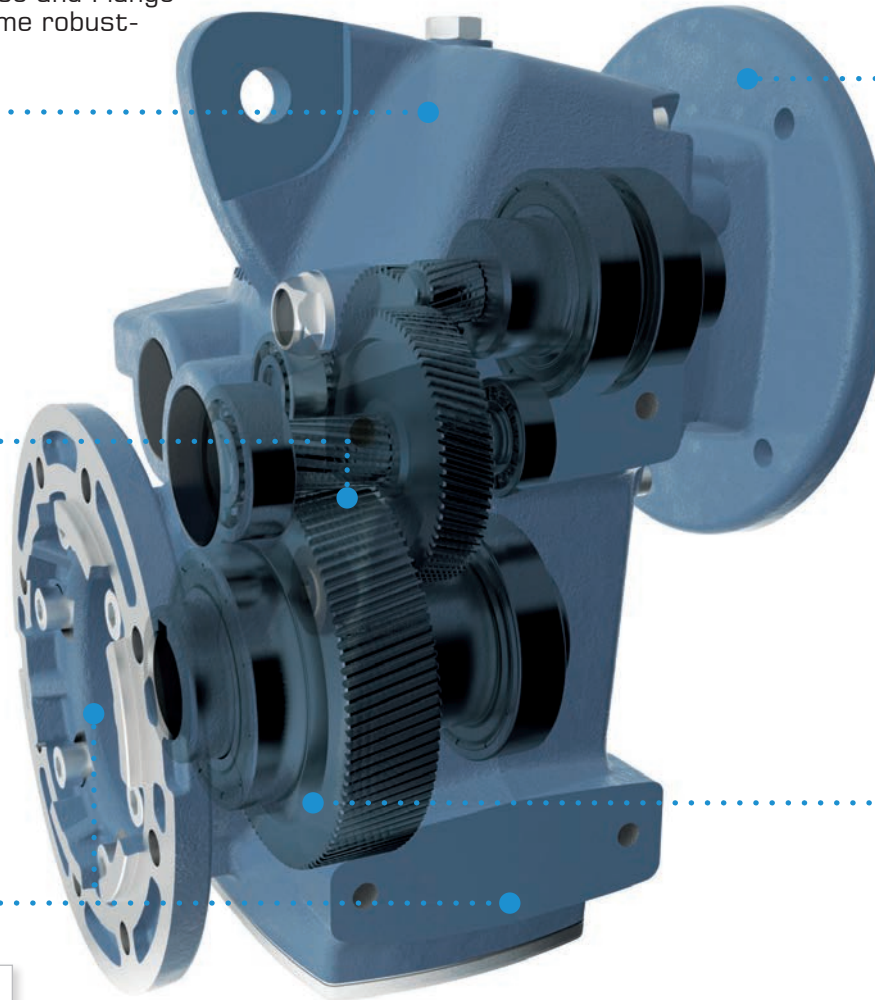
Uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and Flange ensure extreme robustness.



2 or 3 reduction stages inside the same body, in order to have a wider and more reliable range of ratios

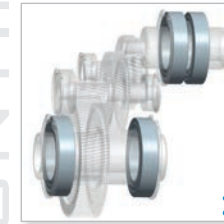


A modular design with detachable output flange and integral feet permits the easy and fast conversion between flange or foot mounting



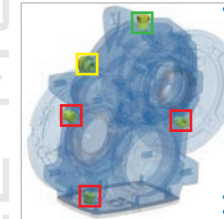
**REGISTERED DESIGN**  
IEC flange and hollow shaft.

Choice of hollow input flanges permits direct mounting of any standard motor

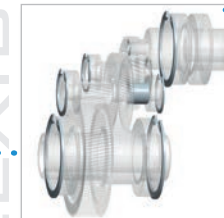


Unique construction of Ston makes it possible to mount any size in any position. This flexibility is achieved by:


+ ZZ autolubricating bearings on input and output shaft



5 interchangeable plugs, including one breather plug and a level plug  
Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox



+ mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings

Available also in "Ex" version,  
ATEX certified  
 II 2G c IIB T4  
II 2D c IIB T135°C  
Tamb= -20 +40 °C

Know STON on

<https://youtu.be/uYYLC3biN9I>



STON	max Nm (4 poles)	motor type								
		63	71	80	90	100	112	132	160	180 200
3	400									
4	600									
5	800									
7	1700									
8	3500									
9	5900									

VERSATILE

FLEXIBLE MOUNTING



## ROBUST



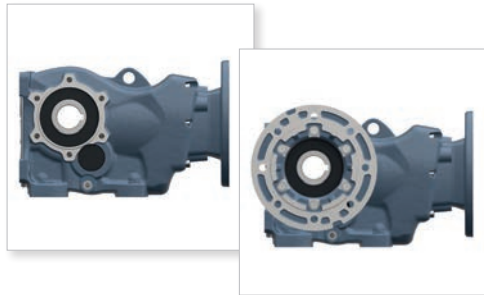
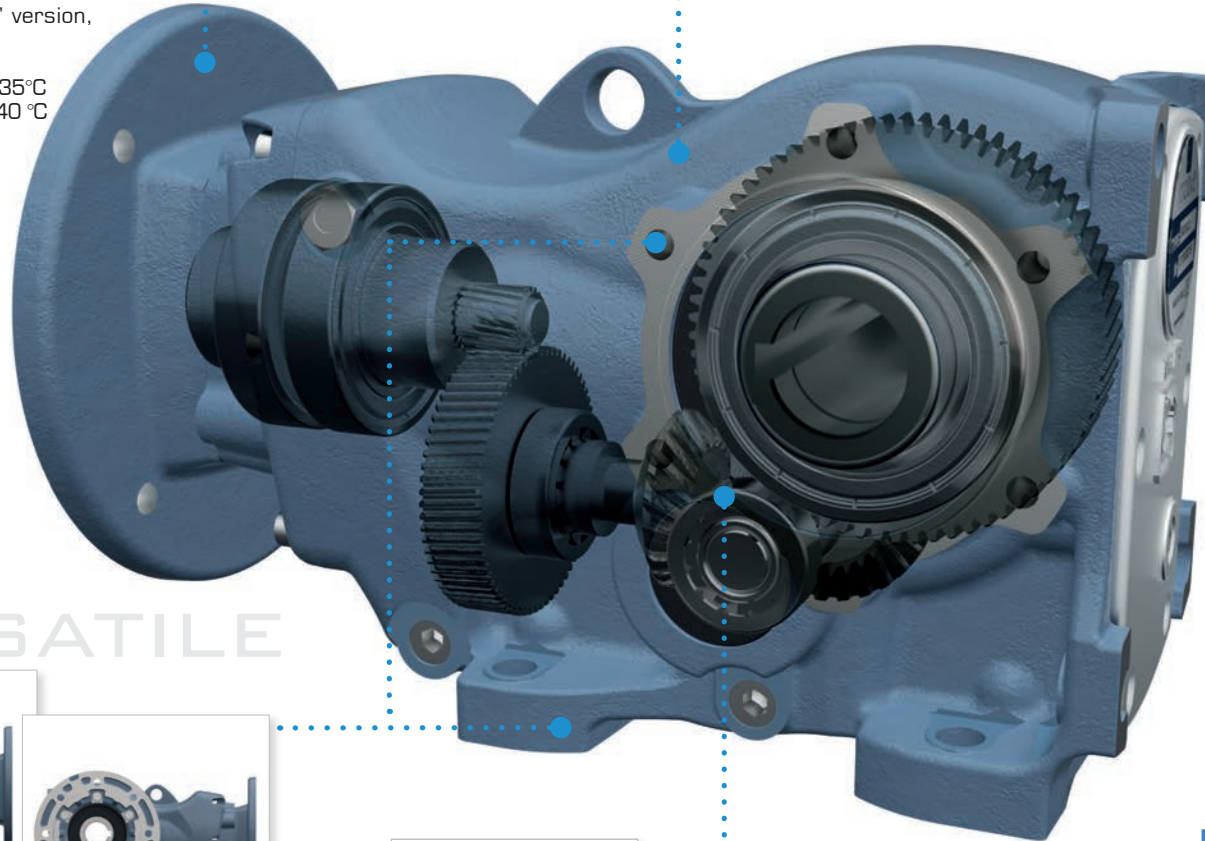
Uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and Flange ensure extreme robustness.

Available also in "Ex" version, ATEX certified

II 2G c IIB T4  
II 2D c IIB T135°C  
Tamb= -20 +40 °C



Know ENDURO on  
<https://youtu.be/uYYLC3biN9I>



A modular design with detachable output flange and integral feet permits the easy and fast conversion between flange or foot mounting



Bevel gears in the middle stage, to be more silent and, at the same time, reach a higher service factor

## REGISTERED DESIGN

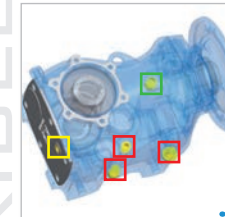


IEC flange and hollow shaft.

Choice of hollow input flanges permits direct mounting of any standard motor



Unique construction of Enduro makes it possible to mount any size in any position. This flexibility is achieved by:  
+ ZZ autolubricating bearings on input and output shaft



5 interchangeable plugs, including one breather plug and a level plug  
Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox



+ mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings

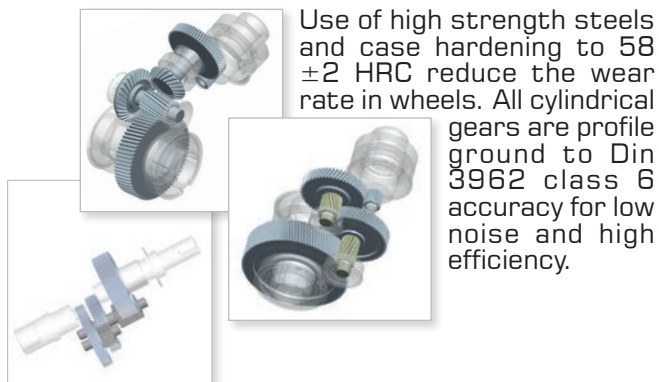
FLEXIBLE MOUNTING

ENDURO	max Nm (4 poles)	motor type									
		63	71	80	90	100	112	132	160	180	200
3	210										
4	400										
5	600										
7	1550										
8	2800										
9	4300										

## Offered service factor

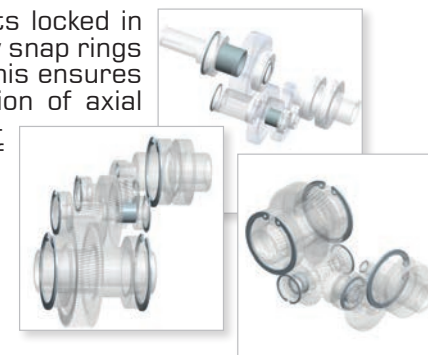
The service factor of a gearbox is its capacity to withstand operating load and overloads, a certain number of starts, the duration of operating time, and mechanical shocks and vibrations. Thus, higher the service factor, greater is the possibility of trouble-free operation and increased life. Without aiming to be completely exhaustive, we list here the main features that influence the service factor:

The monobloc body provides higher rigidity and mechanical robustness.



Use of high strength steels and case hardening to  $58 \pm 2$  HRC reduce the wear rate in wheels. All cylindrical gears are profile ground to Din 3962 class 6 accuracy for low noise and high efficiency.

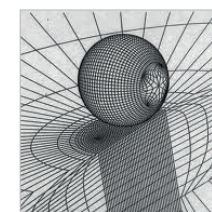
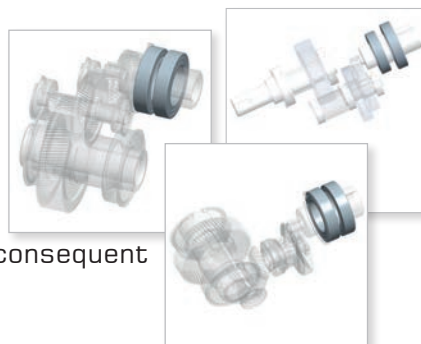
Mechanical parts locked in their position by snap rings and spacers. This ensures better absorption of axial thrust and prolongs the life of bearings.



Optimal ratios (between 2 and 6) in the several stages, together with appropriate centre distances, result in higher number of teeth and size (module) of each wheel and better torque transmission fractioning through various stages.



Dual bearing support on the input shaft ensures precise alignment of the first stage gears and reduces vibrations and consequent gear wear.

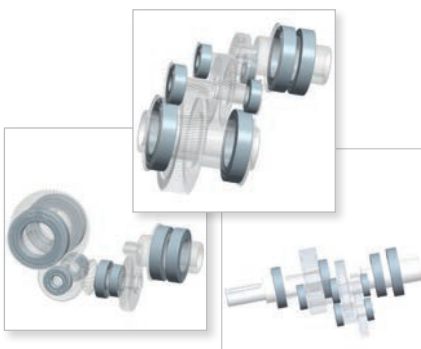


The surface is exposed to a bombardment of micro-spheres that induces compression and increases further the fatigue resistance.

If the intermediate shaft is rigidly supported on both ends, with no overhang wheel, imparts greater flexural strength and smoother meshing.



Oversized bearings, allow the gearbox to withstand higher operating loads.



Amongst all parts, the last stage gears are subjected to highest mechanical stresses. Higher centre distance which in turn results in higher module considerably increases the service factor.



Smaller overhang of output shaft from supporting bearing in order to withstand higher radial loads.





## NANO

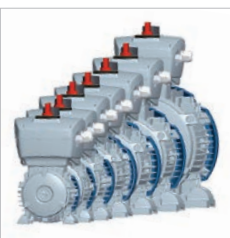


power) with the higher efficiency IE2 and IE3 three phase motors.



Setting and command can also be made by a PC, thanks to the free PC interface program "Motive Motor Manager"

Any NANO can be fixed to a wide range of motors of different power and size.



A voltage booster guarantees a stable torque Nm at very slow speed too.



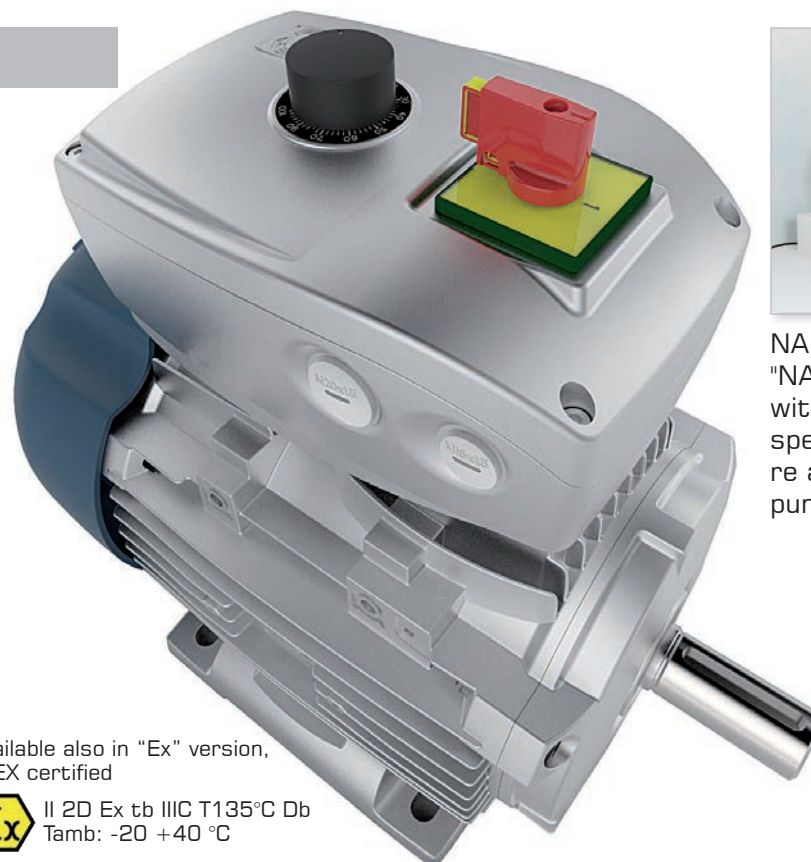
Thanks to BLUE, motive bluetooth transmitter for NANO and NEO, and to the free App NANO, you can make the setting or command NANO



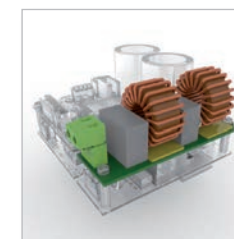
via tablets or smartphones.



Available also in "Ex" version, ATEX certified  
**Ex** II 2D Ex tb IIIC T135°C Db  
 Tamb: -20 +40 °C



NANO is also offered in the versions "NANO-COMP", "NANO-VENT" and "NANO-OLEO", with a SW specifically modified for the automatic speed+power adaptation to the required pressure and variable flow rate of air compressors, fans, pumps, hydraulic power packs.



The EMC filter makes NANO compatible not just with industrial environment, but also with light industrial, commercial end residential environments.

Features	Symbol	U.O.M	NANO-0.75	NANO-2.2
Inverter protection degree*	IP		IP65*	
Inverter input voltage	V <sub>1n</sub>	V	1x110(-10%)÷240(+10%)	
Inverter input frequency	f <sub>1n</sub>	Hz	50/60 (±5%)	
Inverter output frequency	f <sub>2</sub>	Hz	200% f <sub>1n</sub> (f <sub>2</sub> 0÷100Hz with f <sub>1n</sub> 50Hz)	
Rated output inverter current (to the motor)	I <sub>2n</sub>	A	4	9

**Table RP: Power range of motors that can be connected (at 230Vac)**

KW motor	0.13	0.18	0.25	0.37	0.55	0.55	0.75	1.1	1.5	1.9	2.2
NANO-0.75											
NANO-2.2											

**Table RD: Size range of IEC motors that can be connected**

IEC Motor	63	71	80	90S	90L	100L	112M	132S
NANO-0.75								
NANO-2.2								



## NEO WIFI

NEO-WiFi is a three-phase inverter designed as a competitive and user-friendly turnkey integrated system, with all parts, motor, inverter and control designed for outdoor use, and with standard remote control. The manufacturers of pumps, fans, and other machines can thus offer a finished "plug-in" product. Their customers need only to insert the plug, wherever it is installed, and decide if they want to bring the keypad with them.

To maintain the degree of protection and eliminate fragile and complicated connectors, the keypad is automatically powered by induction when the panel is



housed in the lid of the NEO, or, when remote controlled, it is automatically powered by rechargeable batteries that are provided standard, or by BLOCK.



Modbus



Any NEO can be fixed to a wide range of motors of different power and size.



The keypad can be positioned or removed from its seat without any tools, because it adheres to it with 4 magnets.



The keypad is available in two versions: with or without analogue controls.



Programming and control, that is also remote and wireless. A drastic reduction of installation costs.

The keypad can be fixed to a metal wall with its magnets or to a concrete wall using inserts.



Available also in "Ex" version, ATEX certified



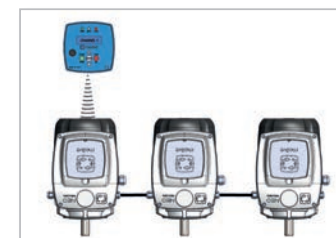
II 2D Ex tb IIC T135°C Db  
Tamb: -20 +40 °C



With PC and, thanks to BLUE, motive bluetooth transmitter for NANO and NEO, and to the free App NANO, you can make the setting or command NANO via tablets or smartphones.



High degree of protection, against dust and water, for outdoor use.



A keypad can control simultaneously, or separately, up to 8 motors.



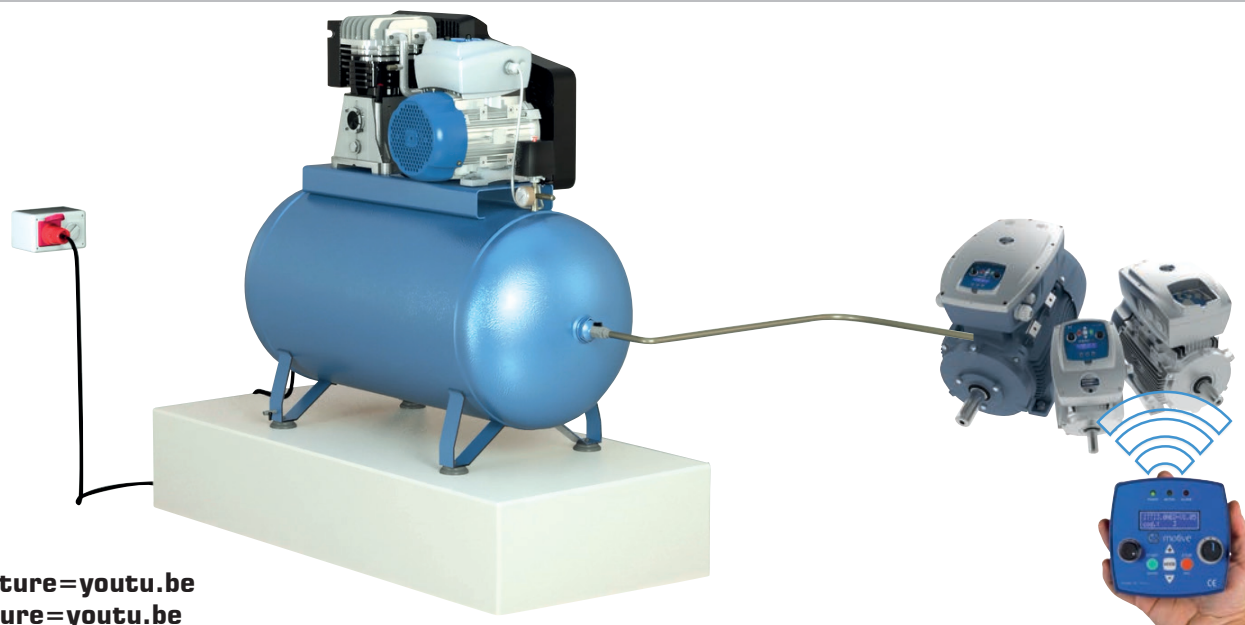
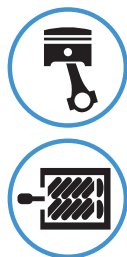
Know  
NEO-WIFI  
on

[https://www.youtube.com/watch?v=hUXJ47P\\_Qxo&feature=youtu.be](https://www.youtube.com/watch?v=hUXJ47P_Qxo&feature=youtu.be)



## NEO-COMP & NANO-COMP

NEO/NANO-COMP controls the COMPRESSOR pressure and adjusts automatically the motor speed according to the flow rate



Know NEO-COMP and NANO-COMP on

<https://www.youtube.com/watch?v=moFYX6gWCfw&feature=youtu.be>

<https://www.youtube.com/watch?v=DKbZST69L9I&feature=youtu.be>

Value	Symbol	UOM	NEO-COMP-3kW	NEO-COMP-4kW	NEO-COMP-5.5kW	NEO-COMP-11kW	NEO-COMP-22kW	NANO-COMP-1.1kW	NANO-COMP-2.2kW
NEO/NANO protection degree*			IP65					IP65	
NEO/NANO supply voltage	$V_{1n}$	V	3x 200 ÷ 460					1x110(-10%) ÷ 240(+10%)	
NEO/NANO supply frequency	$f_{1n}$	Hz	50-60					50-60	
Compressor pressure		Bar	0.01 ÷ 160					0-160	
Inverter output frequency	$f_2$	Hz	Max $f_{1n} \times 200\%$					200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]	
Rated output current from NEO/NANO (to the motor)	$I_{2n}$	A	7	10	14	22	45	4	9
Maximum WiFi keypad-NEO communication distance out in the open		mt	20						

Further characteristics	NEO-COMP-3kW	NEO-COMP-4kW	NEO-COMP-5.5kW	NEO-COMP-11kW	NEO-COMP-22kW	NANO-0.75kW	NANO-2.2kW
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES Class A - Cat C1			optional		YES Class B (with NANFILT)	
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES			YES Class A - Cat C2			
Communication Protocol	MODBUS					MODBUS RS485	

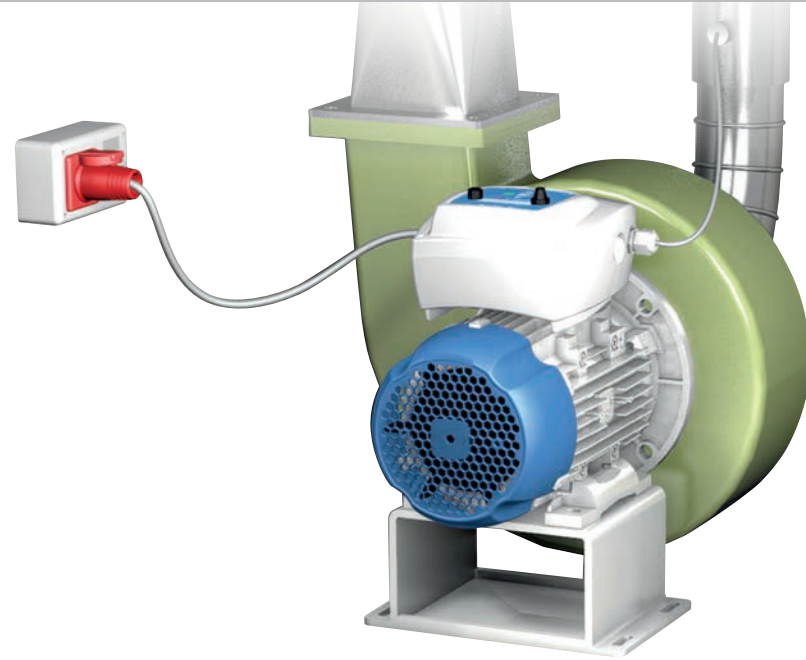
## NEO-VENT & NANO-VENT

NEO/NANO-VENT controls the air pressure in the system to keep it constant, thus adjusting automatically the motor speed and the consumed power of the ventilation and suction systems in residential and industrial applications, according to the air flow requested in each moment by the users.



Know **NEO-VENT** on

<https://www.youtube.com/watch?v=dBcVtzZGyAM&feature=youtu.be>



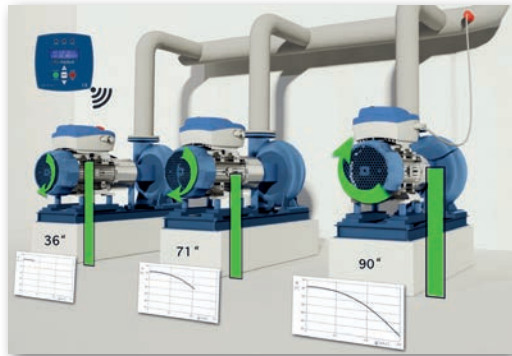
Value	Symbol	UOM	NEO-VENT-3kW	NEO-VENT-4kW	NEO-VENT-5.5kW	NEO-VENT-11kW	NEO-VENT-22kW	NANO-VENT-1.1kW	NANO-VENT-2.2kW
NEO-VENT protection degree*			IP65					IP65	
NEO-VENT supply voltage	$V_{1n}$	V	3x 200 ÷ 460					1x1 10(-10%) ÷ 240(+10%)	
NEO-VENT supply frequency	$f_{1n}$	Hz	50-60					50-60	
Air pressure		bar psi	Bar 0.010 ÷ 16 bar Psi 0.14 ÷ 232 psi					0-16 Psi	
NEO-VENT drive output frequency	$f_2$	Hz	Max $f_{1n} \times 200\%$					200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]	
Rated output current from NEO-VENT (to the motor)	$I_{2n}$	A	7	10	14	22	45	4	9
Maximum WiFi keypad-NEO-VENT communication distance out in the open		mt	20						

Further characteristics	NEO-VENT-3kW	NEO-VENT-4kW	NEO-VENT-5.5kW	NEO-VENT-11kW	NEO-VENT-22kW	NANO-0.75kW	NANO-2.2kW
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES Class A - Cat C1			optional		YES Class B (with NANFILT)	
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES			YES Class A - Cat C2			
Communication Protocol	MODBUS					MODBUS RS485	

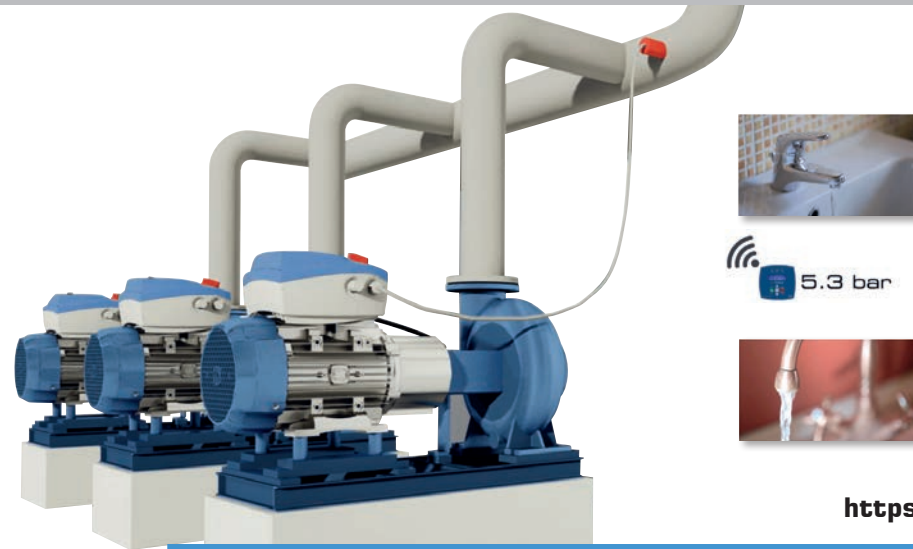


## NEO-PUMP

VFD for the automatic control of water pumping systems.



To fit well with the pump traditional drives for pumps require a sophisticated data setting. **NEO-PUMP** is much easier to be installed since it makes an 90 seconds auto-tuning of the pump curve to suit its work to the system features without any calculation and manual setting



Know NEO-PUMP on  
<https://www.youtube.com/watch?v=7y1J4rFUVy8>

Physical quantity	Symbol	UOM	NEO-PUMP-3kW	NEO-PUMP-11kW
NEO protection degree			IP65	IP65
Inverter supply voltage	$V_{1n}$	V	3 x 200-460	3 x 200-460
Inverter supply frequency	$f_1$	Hz	50-60	50-60
Inverter output frequency	$f_2$	Hz	max $f_1 \times 110\%$	max $f_1 \times 110\%$
Rated output current from the inverter (to the motor)	$I_{1n}$	A	8.0	25
Maximum Starting torque / Rated torque ratio	Cs/Cn	%	150%	150%
Maximum WiFi keypad-inverter communication distance out in the open		mt	20	20

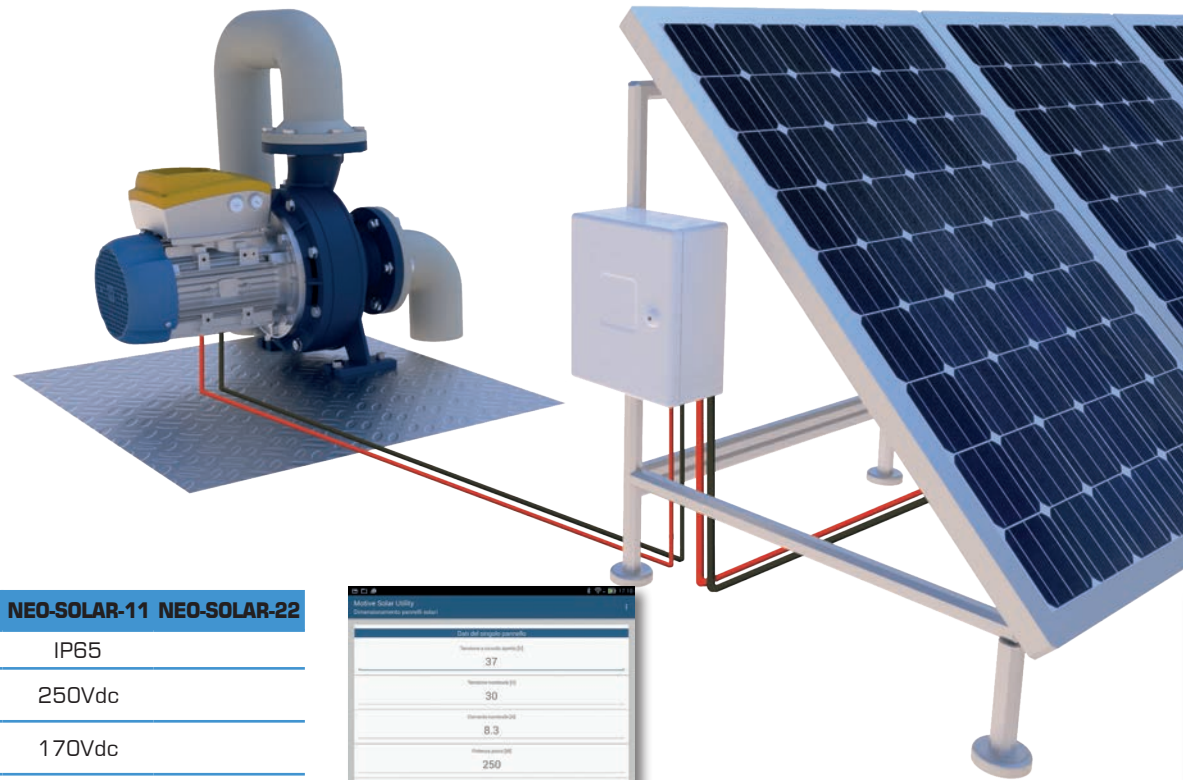
Further characteristics	NEO-PUMP-3kW	NEO-PUMP-11kW
Programmer with built-in clock and battery (to make it possible to plan starts and stops)	NO	YES
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2)	YES	YES Class A - Cat C2
EMC for DOMESTIC, AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES Class A - Cat C1	optional
3PH power knife switch	optional	optional
Communication Protocol	MODBUS	MODBUS




## NEO-SOLAR

Island or hybrid drive  
for solar pumps and  
motors

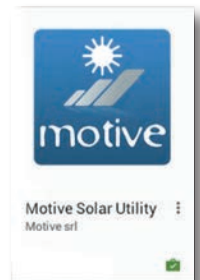


Know NEO-SOLAR on  
<https://www.youtube.com/watch?v=zjJV6oSiLDA>



Technical feature	UOM	NEO-SOLAR-3	NEO-SOLAR-11	NEO-SOLAR-22
NEO protection degree			IP65	
 Min starting voltage (from solar panels)	V		250Vdc	
 Stop voltage (from solar panels)	V		170Vdc	
 Max voltage (from solar panels)	V		650Vdc	
Motor rated voltage and frequency	V Hz	3PH 190-460Vac +/- 5%		50/60Hz
Supply frequency to motor	Hz	20-110%		
Max output current from NEO-SOLAR to motor	A	7	22	45


Further features	NEO-SOLAR-3	NEO-SOLAR-11	NEO-SOLAR-22
Programmer with built-in clock and battery (to make it possible to plan starts and stops)	NO	YES	YES
Communication Protocol	MODBUS	MODBUS	MODBUS
MSPT working, to reach the max water quantity permitted by the sun	YES	YES	YES
Constant pressure working	YES	YES	YES
Programmable by motive wifi keypad	YES	YES	YES
Programmable by PC	YES	YES	YES
Programmable by smartphone/tablet	YES	YES	YES



### Motive Solar Utility:

It calculates the correct photovoltaic generator sizing and chooses the right NEO-SOLAR for you after that you input some info like the panels data, max temperature, motor power, etc.

Only for Android 

1. Download the APP from play-store  or



2. Digit "Motive Solar"

3. Click on Motive Solar Utility icon 

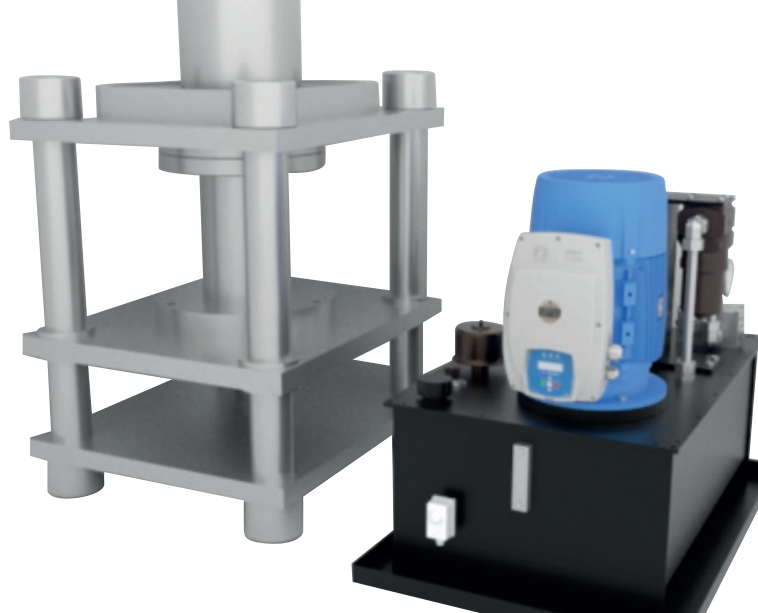


## NEO-OLEO & NANO-OLEO

NANO-OLEO e NEO-OLEO controllano la pressione dell'olio e la portata delle centraline oleodinamiche monofase o trifase, fino a 22kW, e regolano così automaticamente la velocità e la potenza consumata in base al carico di lavoro richiesto in ciascun momento



Know NEO/NANO-OLEO on  
<https://youtu.be/-m7uT6MnDq4>



Value	Symbol	UOM	NEO-OLEO-3kW	NEO-OLEO-4kW	NEO-OLEO-5.5kW	NEO-OLEO-11kW	NEO-OLEO-22kW	NANO-OLEO-1.1kW	NANO-OLEO-2.2kW
NEO/NANO protection degree*			IP65					IP65	
NEO/NANO supply voltage	$V_{1n}$	V	3x 200-460					1x110(-10%) ÷ 240(+10%)	
NEO/NANO supply frequency	$f_{1n}$	Hz	50-60					50-60	
NEO/NANO output frequency	$f_2$	Hz	200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]					200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]	
Rated output current from the inverter (to the motor)	$I_{2n}$	A	7	10	14	22	45	4	9
Maximum Starting torque / Rated torque ratio	Cs/Cn	Nm	150%			200% (7.5kW) 160% (11kW)	150%	150%	
Maximum WiFi keypad-inverter communication distance out in the open		mt	20						

Further characteristics	NEO-OLEO-3kW	NEO-OLEO-4kW	NEO-OLEO-5.5kW	NEO-OLEO-11kW	NEO-OLEO-22kW	NANO-0.75kW	NANO-2.2kW
Bluetooth communication with mobile devices	YES (opt. with BLUE device)					YES (opt. with BLUE device)	
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES			YES Class A - Cat C2	YES Class A - Cat C2	YES Class B (with NANFILT)	
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES (since V2.01) Class A - Cat C1			optional	optional		
Built in potentiometer with Knob and Unit Scale IP65	YES (with NANPOT)					YES (with NANPOT)	
3PH Power Switch	optional cod. ITEM3X32A				optional cod. ITEM3X63A	optional cod. ITEM1X12A	
Communication Protocol	MODBUS RS485					MODBUS RS485	

**A universal expandable information system comprising of sensors + gateway + platform + pushnotifier, open, autotuning, IIoT, machine learning and A.I., ALL IN ONE**

We saw

- toy sensors that had to be thrown away when the battery was down,
- sensors giving one number data per day (how do you understand, for example, abnormal vibrations if someone was using a hammer nearby in that moment?),
- mouths filled of the word "artificial intelligence" when only 2 (vibration, heating) neurons were there, we heard
- talking about "machine learning" when it was us that had to state a tolerance for each taken value,
- people adding the "AI" term when the taken values correlations were not learned.

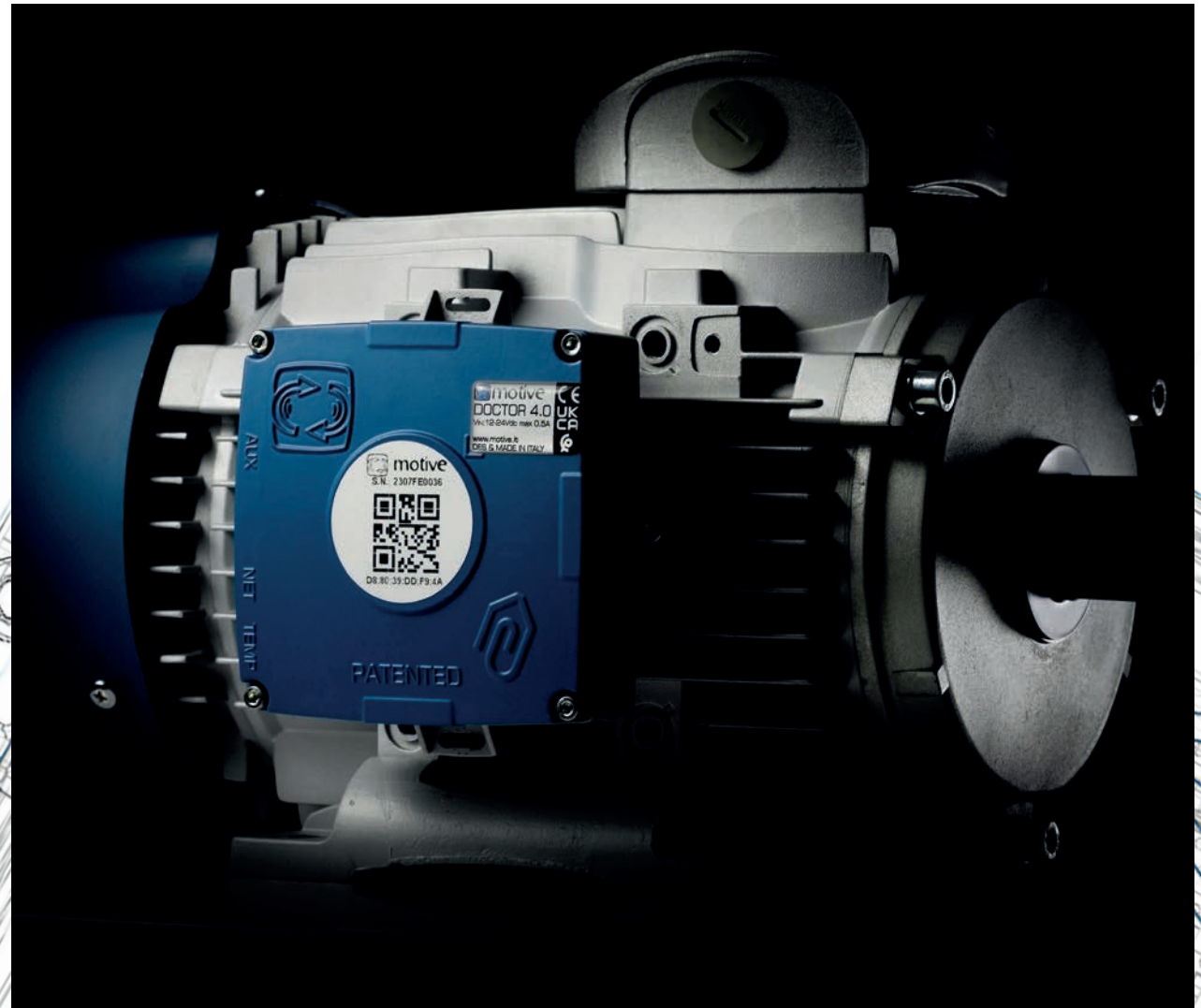
Well, it was just nice to see a number in an app and see it as a solution... but how useful was it really?

And what if now we had a UNIVERSAL EXPANDABLE SENSING permanent system comprising of gateway + platform + pushnotifier, open, autotuning, IoT, machine learner, all-in-one and not a complicate assembly of devices, that incorporates the most brilliant patented Artificial Intelligence for predictive maintenance (a REAL one, and not just a marketing word)? And what if that not only receives data, but can also send commands from an app (slow down, stop, etc.)?

We would be faced with something that can really do predictive maintenance but, more importantly, that can do a lot more than that.

A dream? No, it's already there. We invented and patented it. It is called DOCTOR 4.0

Industrial invention patent No. 102021000024412





## Configure what you need by this automatic consultant, and get CAD files and data sheets

Motive configurator allows you to shape Motive products, combine them as you want, and finally to download 2D/3D CAD drawings, and a PDF datasheet.

### Search by performance

If you're not sure about the best products combination that you should select for your purpose, you can input your wishes, like final torque, final speed, use, etc, and the configurator will act like a consultant.

It will give you a list of applicable product configurations; you can then download a PDF data sheet featuring performance data and dimensional drawings for each configuration, as well as 2D and 3D drawings.

### Search by product

To be used if you already know the product configuration that you want, and you just want to get quicker a PDF data sheet featuring performance data and dimensional drawings for 2D and 3D drawings.



free access without login  
<http://www.motive.it/configuratore.php>



## TERMS OF SALE AND GUARANTEE

### ARTICLE 1 GUARANTEE

1.1 Barring written agreements, entered into between the parties hereto each time, Motive hereby guarantees compliance with specific agreements.

The guarantee for defects shall be restricted to product defects following design, materials or manufacturing defects leading back to Motive.

The guarantee shall not include:

- \* Faults or damages ensuing from transport. Faults or damages ensuing from installation defects; incompetent use of the product, or any other unsuitable use.
- \* Tampering or damages ensuing from use by non-authorised staff and/or use of non-original parts and/or spare parts;
- \* Defects and/or damages ensuing from chemical agents and/or atmospheric phenomena (e.g. burnt out material, etc.); routine maintenance and required action or checks;
- \* Products lacking a plate or having a tempered plate.

1.2 Returns to credit or replace will be accepted only in exceptional cases; however returns of goods already used to credit or replace won't be accepted in any case.

The guarantee shall be effective for all Motive products, with a term of validity of 12 months, starting from the date of shipment.

The guarantee shall be subject to specific written request for Motive to take action, according to statements, as described at

the paragraphs herein below. By virtue of aforesaid approval, and as regards the claim, Motive shall be bound at its discretion, and within a reasonable time-limit, to alternatively take the following actions:

a) To supply the Buyer with products of the same type and quality as those having proven defective and not complying with agreements, free ex-works; in aforesaid case, Motive shall have the right to request, at Buyer's charge, early return of defective goods, which shall become Motive's property;

b) To repair, at its charge, the defective product or to modify the product which does not comply with agreements, by performing aforesaid action at its facilities; in aforesaid cases, all costs regarding product transport shall be sustained by the Buyer.

c) To send spare parts free of charge: all costs regarding product transport shall be sustained by the Buyer.

1.3. The guarantee herein shall assimilate and replace legal guarantees for defects and discrepancies, and shall exclude any other eventual Motive liability, however caused by supplied products; in particular, the Buyer shall have no right to submit any further claims. Motive shall not be liable for the enforcement of any further claims, as of the date the guarantee's term of validity expires.

### ARTICLE 2 CLAIMS

2.1. Claims, regarding quantity, weight, gross weight and colour, or claims regarding faults and defects in quality or compliance, and which the Buyer may discover on goods delivery, shall be submitted by a max. 7 days of aforesaid discovery, under penalty of nullity.

### ARTICLE 3 DELIVERY

3.1. Any liability for damages ensuing from total or partial delayed or failed delivery, shall be excluded.

3.2. Unless differently communicated by written to the Client, the transport terms have to be intended ex-works.

### ARTICLE 4 PAYMENT

4.1. Any delayed or irregular payments shall entitle Motive to cancel ongoing agreement, including agreements which do not regard the payments at issue, as well as entitling Motive to claim damages, if any. Motive shall, however, have the right, as of payment's due date and without placing in arrears, to claim interest for arrears, to the extent of the discount rate in force in Italy, increased by 12 points. Motive shall also have the right to withhold material under repair for replacement. In the case of failed payment, Motive shall have the right to cancel all guarantees of materials, as regards the insolvent Client.

4.2. The Buyer shall be bound to complete payment, including cases whereby claims or disputes are underway.



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