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DELPHI

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

		7.17
type	of	power
56		
63		≥
71		₹
80	aluminum	0,09kW-11kW
90	alultilitiutti	≥
100		80
112		o,
132		
160		,
180		>
200) X
225	cast iron	315
250	Cast II'UII	4kW-315kW
280		<u>}</u>
315		4
355		2

REGISTERED DESIGN

SIZES 56-132

Available also in "Ex" version, ATEX certified

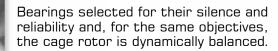


II 2G Ex eb IIC T4 Gb II 2D Ex tb IIIC T120°C IP65 Db Tamb=-20 +40°C or +60°C



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.



Know DELPHI 56-132 on http://www.youtube.com/watch?v=G2EWOuOHIjU



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



motive

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





To protect them by the rust, motive motors are painted



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



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

- impact resistant
- soundproofing
- scratchproof
- rustproof





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



DELPHI

SIZES 160-355

Available also in "Ex" version, ATEX certified II 2G Ex eb IIC T4 Gb

II 2D Ex tb IIIC T120°C IP65 Db Tamb=-20 +40°C or +60°C

Know DELPHI 160-355 on https://youtu.be/pXvcKximmNA

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, [oupon 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 regreasing 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")

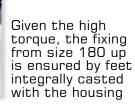
Upon request, motive can anyway mount the terminal box laterally, on the right or the

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)]





NOTE: during the years 2016 and 2017, the motors size 160 might still be equipped with detachable feet, because of the time needed to update them

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

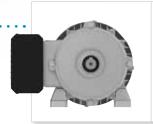
kW		pe
RVV	2 poles	4 poles
0,18	63A-2	63B-4
0,25	63B-2	71A-4
0,37	71A-2	71B-4
0,55	71B-2	80A-4
0,75	80A-2	80B-4
1,1	80B-2	905-4
1,5	905-2	90L-4
2,2	90L-2	100LA-4
3		100LB-4
4		112M-4



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



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





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

DELFIRE SERIES. 100°C RESISTANT MOTORS



"DELFIRE" 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 lifespam 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	of	kW
71			
80			
90		aluminum	0,18 - 7,5
100		alullillillill	U, 10 - 7,J
112	2, 4, 6		
132			
160			
180		cast iron	7,5 - 37
200			

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 he shaft,
- The PTO thermal protectors in the winding are a standard up to size 132. PTC are a standard from size 160 and up
- 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.

Also MONO 1PH motors are offered in ATDC version.



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.

				ATDC				AT2	4		ATDC AT24	ATTD
IEC Type	Static max braking torque	standard vers. braking time no-load	"TA version" braking time no-load	input voltage on rectifier	output voltage to brake	brake power	Static max braking torque	Static min braking torque	Braking time no-load	brake power	extra Kg on std	extra Kg on std
туре	[Nm)	[Sec]	[Sec]	[Vac]	[Vdc]	[W]	[Nm]	[Nm]	[Sec]	[W]		
AT63	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
AT71	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
AT80	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
AT112	55,0	0,35	<0,05	380-480	171-216	65	60,0	55,0	0,15	65	+10	+19
AT132	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
AT180	250,0	0,50	<0,05	380-480	171-216	130					+32	+62
AT200	420,0	0,50	<0,05	380-480	171-216	140					+40	+77
AT225	450,0	0,50	<0,05	380-480	171-216	160					+52	+100
AT250	550,0	0,50	<0,05	380-480	171-216	170					+80	+155
AT280	900,0	0,50	<0,05	380-480	171-216	360					+106	+209
ATTD	ATTD= ATDCx2					ATTD= ATDCx2						

BOX

max Nm (4 poles) 56 63 71 80 90 100 112 132 16 13 25 19 30 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= QqGmfraDq7A&feature=voutu.be

Available also in "Ex" version. ATEX certified

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

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

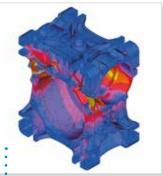
The gear unit is equipped with a full set of filler, level and breather plugs, permitting all mounting positions and facilitating the management of the stock.



From type 75 and up, 2 taper roller bearings are mounted on the wormshaftmwheel.

Moreover, the combination of this characteristic and 2 nilos (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

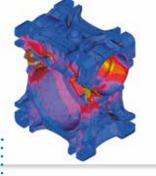
to the size 150, in the positions V5 and V6 without any need of additional interventions.



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 .





Mounting positions B6 or B7 are also permitted on all the BOX series, thanks to the adoption of 2RS autolubricated bearings on the output

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 premounting on the motor shaft.

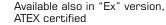
Like all connectable motive motors and gearboxes, STADIO is supplied by Motive with synthetic oil suitable for the whole lifetime. No maintenance requested.

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.

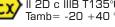
A powder paint coat cancels the negative effects of the aluminium porosity and protects the housing from oxidation.

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.

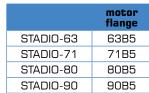


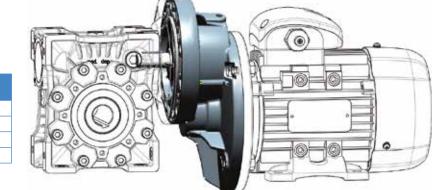


II 2G c IIB T4 II 2D c IIIB T135°C









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.



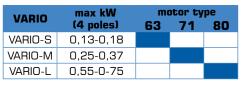
TC double lip oil seals.

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.

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



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.



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

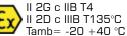


ROBUS 25-60

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



Available also in "Ex" version. ATEX certified



Easy to examine and maintan.

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



IEC flange and hollow shaft.

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



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



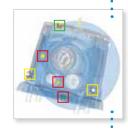




Unique construction of Robus makes it possible to mount any size in any position.

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



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



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



PORUS	max Nm										
HODOS	(4 poles)	63	71	80	90	100	112	132	160	180	200
A2	165										
25	350										
30	450										
35	700										
40	1100										
50	2500										
60	4300										
	A2 25 30 35 40 50	A2 165 25 350 30 450 35 700 40 1100 50 2500	A2 165 25 350 30 450 35 700 40 1100 50 2500	ROBOS (4 poles) 63 71 A2 165 165 25 350 165 30 450 165 35 700 165 40 1100 165 50 2500 163	ROBUS (4 poles) 63 71 80 A2 165 80 25 350 90 90 30 450 90 90 40 1100 90 90 50 2500 90 90	ROBOS (4 poles) 63 71 80 90 A2 165 80<	ROBUS (4 poles) 63 71 80 90 100 A2 165 8 9 100 25 350 9 10 10 30 450 9 10 10 35 700 9 10 10 40 1100 10 10 10 10 50 2500 10 10 10 10 10	A2 165 63 71 80 90 100 112 A2 165 40 40 450 40	A2 165 3 71 80 90 100 112 132 A2 165 350 <t< td=""><td>ROBUS (4 poles) 63 71 80 90 100 112 132 160 A2 165 350<!--</td--><td>ROBUS (4 poles) 63 71 80 90 100 112 132 160 180 A2 165 165 165 165 165 165 165 165 165 165 165 165 160 180 35 350 160 160 160 160 160 160 160 180 160 180 35 350 160 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 180 160 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180</td></td></t<>	ROBUS (4 poles) 63 71 80 90 100 112 132 160 A2 165 350 </td <td>ROBUS (4 poles) 63 71 80 90 100 112 132 160 180 A2 165 165 165 165 165 165 165 165 165 165 165 165 160 180 35 350 160 160 160 160 160 160 160 180 160 180 35 350 160 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 180 160 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180</td>	ROBUS (4 poles) 63 71 80 90 100 112 132 160 180 A2 165 165 165 165 165 165 165 165 165 165 165 165 160 180 35 350 160 160 160 160 160 160 160 180 160 180 35 350 160 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 160 180 160 180 160 180 30 450 160 160 160 160 160 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 160 180 180 160 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180 180



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 2D c IIIB 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



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

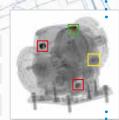
Minimum maintenance requirement. All sizes are supplied with long-life synthetic oil.



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 absorbtion of axial thrust and prolongs the life of bearings

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





STON



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 Available also in "Ex" version, ATEX certified



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



REGISTERED DESIGN

IEC flange and hollow shaft.

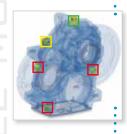


Choice of hollow input flanges permits direct mounting of any standard motor



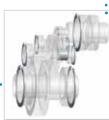
Unique construction of Ston makes it possible to mount any size in any position. This flexibility is achieved by:

+ 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 absorbtion of axial thrust and prolongs the life of bearings

STON	max Nm (4 poles)	63	71	80	noto: 100		160	180	200
3	400								
4	600								
5	800								
7	1700								
8	3500								
9	5900								

Know STON on https://youtu.be/uYYLC3biN9I

ENDURO

ROBUST

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

Know ENDURO on https://youtu.be/uYYLC3biN91



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



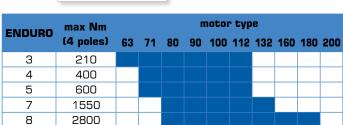
5 interchangeable plugs, including one breather plug and a level plug Please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox

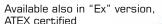


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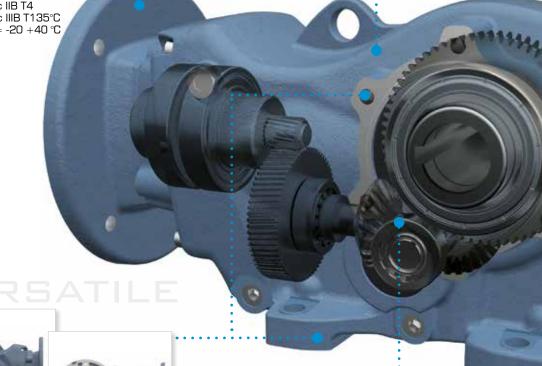
4300

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





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



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

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 ±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.

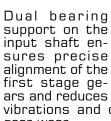


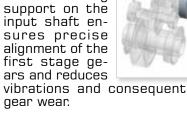
Optimal ratios (between 2 and 6) in the several stages.

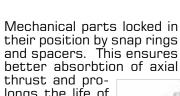
together with appropriate centre distances. result in higher number of teeth and

size (module) of each wheel and better

torque transmission fractioning through various stages.





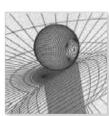


lonas the life of bearings.



gears are subjected to highest mechanical stresses. Higher centre distance which in turn results in higher module considerably increases the service factor.

Amongst all parts, the last stage



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



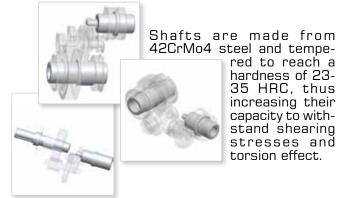
If the intermediate shaft is rigidly supported on both ends, with no overhang wheel, imparts greater flexural strengh and smoother meshing.



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

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





42CrMo4 steel and tempered to reach a hardness of 23-35 HRC. thus increasing their capacity to withstand shearing stresses and torsion effect.

NANO



NANO is for single phase supply, three phase motors. This permits NANO to add to the well known power saving of variable speed drives, the possibility to replace the single phase motors (technically losing lot of

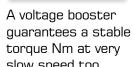
power) with the higher efficenty IE2 and IE3 three phase motors.



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.





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

via tablets or smartphones.







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.



slow speed too.

Available also in "Ex" version.

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

ATEX certified

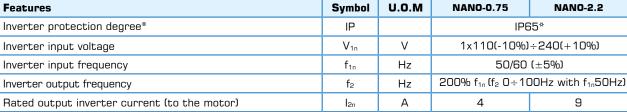








Table RP: Power range of motors that can be connected (at 230Vac)

KW motor	0.13	0.18	0.25	0.37	0.55	0.55	0.75	1.1	1.5	1.9	22
NANO-0.75											
NANO-2.2											

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

IEC	C Motor	63	71	80	908	90L	100L	112M	1325
NA	NO-0.75								
NA	NO-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 "plugin" 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 or by BLOCK.

https://www.youtube. com/watch?v=hUXJ47P Qxo&feature=youtu.be



Modbus

Any NEO can be fixed to

a wide range of motors of

different power and size.

provided standard.

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



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



Programming and

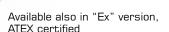
installation costs.

control, that is also

remote and wireless.

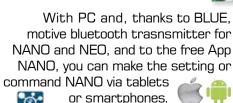
A drastic reduction of







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

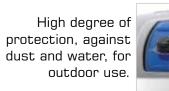








A keypad can control simultaneously. or separately, up to 8 motors.





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

 $https://www.youtube.com/watch?v=moFYX6gWCfw\&feature=youtu.be \\ https://www.youtube.com/watch?v=DKbZST69L9l\&feature=youtu.be \\$

Value	Symbol	иом	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					
NEO/NANO supply voltage	V _{1n}	V			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} x 200%			200% f _{1n} [f ₂ 0-100Hz if f _{1n} 50		
Rated output current from NEO/NANO (to the motor)	l _{2n}	А	7	10	4	9				
Maximum WiFi keypad-NEO communication distance out in the open		mt								

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
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES	YES Class A - Cat C2	(with NANFILT)
Communication Protocol	MODBUS		MODBUS RS485

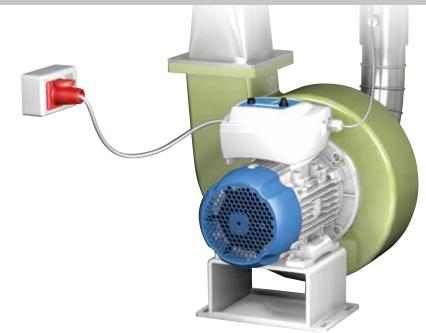
NEO-VENT & NANO-VENT

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	иом	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					
NEO-VENT supply voltage	V _{1n}	V			1x110(-10%)÷240(+10%)					
NEO-VENT supply frequency	f _{1n}	Hz			50-60			50-60		
Air pressure		bar psi			Bar 0.010 ÷ 16 ba Psi 0.14 ÷ 232 ps			0-16 Psi		
NEO-VENT drive output frequency	f ₂	Hz			Max f _{1n} x 200%			200% f _{1n} [f ₂ 0-1	00Hz if f _{1n} 50Hz]	
Rated output current from NEO-VENT (to the motor)	l _{2n}	А	7	10	4	9				
Maximum WiFi keypad-NEO-VENT communication distance out in the open		mt								

Further characteristics	NEO-VENT-3kW	NEO-VENT-4kW	NEO-VENT-5.5kW	NEO-VENT-11kW	NEO-VENT-22kW
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)		YES Class A - Cat C1		opti	onal
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)		YES			ES - Cat C2
Communication Protocol	MODBUS				

NANO-0.75kW	NANO-2.2kW					
YES C	lass B					
(with NANFILT)						
MOD RS4						

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 x 110%	max f ₁ x 110%
Rated output current from the inverter (to the motor)	I _{1n}	А	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 190-4	3PH 190-460Vac +/- 5% 50/60Hz			
Supply frequency to motor	Hz	20-110%				
Max output current from NEO-SOLAR to motor	А	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



0.64

Motive Solar Utility:

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

Only for Android \$\frac{1}{3}\$



1. Download the APP from play-store > or



Motive Solar Utility

- 2. Digit "Motive Solar"
- 3. Click on Motive Solar Utility icon motive



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 0-1	00Hz if f _{1n} 50Hz]	
Rated output current from the inverter (to the motor)	l _{2n}	А	7	10	14	22	45	4	9	
Maximum Starting torque / Rated torque ratio	Cs/Cn	Nm	150% 200% (7,5kW) 150% 150%			15	i0%			
Maximum WiFi keypad-inverter communication distance out in the open		mt			20					

Further characteristics	NEO-OLEO-3kW NEO-OLEO-4kW N	IEO-OLEO-5.5kW NEO-OLEO	-11kW NEO-OLEO-22kW	NANO-0.75kW NANO-2.2kW	
Bluetooth communication with mobile devices	(opt.	YES (opt. with BLUE device)			
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES Class A – Cat C1		YES at C2 Class A - Cat C2	YES Class B	
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)			al optional	(with NANFILT)	
Built in potentiometer with Knob and Unit Scale IP65	YES (with NANPOT)			YES (with NANPOT)	
3PH Power Switch	optional cod.INTEM3X32A		optional cod.INTEM3X63A	optional cod. INTEM1X12A	
Communication Protocol	MODBUS RS485			MODBUS RS485	

DOCTOR 4.0

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





CONFIGURATOR

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

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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