

GROUP SIX



Brushless Servo Motors

- Torque to 64 Nm
- Resolver Standard
- Optional Absolute Encoder
- UL Recognized Version

Contact Us! 800-433-3434 USA
Email info@grp6.com

1 Brushless servomotors

NX series

0,45 to 64 Nm



Description

NX Series brushless servomotors from Parker SSD Parvex combine exceptional precision and motion quality, high dynamic performances and very compact dimensions. A large set of torque / speed characteristics, options and customization possibilities are available, making NX Series servomotors the ideal solution for most servosystems applications.

Advantages

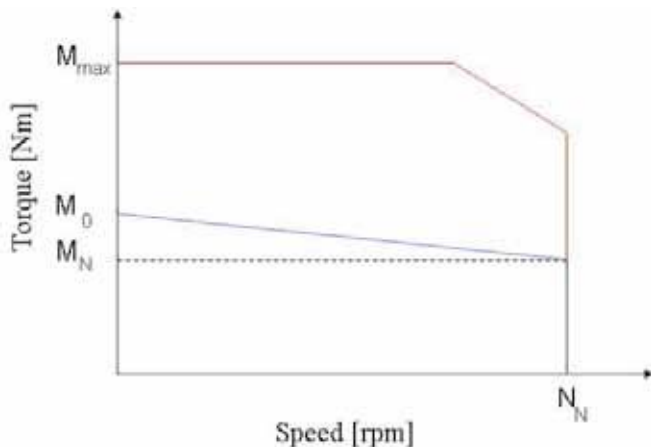
- High precision and motion quality**
- High dynamic performances**
- Compact dimensions and robustness**
- Large set of options and customization possibilities**
- CE and UL marking certification available**

Applications

- Machine-tools axis
- Packaging machinery
- Robot applications
- Special machinery

General technical characteristics

| | | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Motor type | Permanent magnets synchronous servomotors | |
| Rotor design | Rotor with concentrated-flux rare earth magnets | |
| Number of poles | 10 | |
| Power range | 0,2 - 13,7 kW | |
| Torque range | 0,45 - 64 Nm | |
| Speed range | 0 - 7500 rpm | |
| Mounting | Flange with smooth holes | |
| Shaft end | <ul style="list-style-type: none"> • Plain smooth shaft (standard) • Plain keyed shaft (option) | |
| Cooling | <ul style="list-style-type: none"> • Natural ventilation • Forced ventilation (NX860V only) | |
| Protection level (IEC60034-5) | <ul style="list-style-type: none"> • IP64 (standard) • IP65 (option) • IP44 (ventilated version) | |
| Feedback sensors | <ul style="list-style-type: none"> • Resolver (standard) • Absolute Endat, Hiperface, Encoder • Posivex (only with Digivex Motion) | |
| Other options | <ul style="list-style-type: none"> • Brake • Thermal protection (PTC, Thermo Switch or KTY) | |
| Marking | CE | UL |
| Voltage supply | 230 / 400 VAC | 230 / 480 VAC |
| Temperature class (IEC60034-1) | <ul style="list-style-type: none"> • Class F | <ul style="list-style-type: none"> • Class A (NX1 – 2) • Class F (NX3 – 8) |
| Connections | <ul style="list-style-type: none"> • Connectors (standard) • Flying cables (option) • Terminal box (option) | <ul style="list-style-type: none"> • Connectors (NX1 – 8) • Terminal box (NX860V) |





NX1 - NX2 models

CE motors

0,45 - 1 Nm

Selection and ordering

| Rated Speed N_N (rpm) | Stall Torque M_0^* (Nm) | Rated Torque M_N (Nm) | Peak Torque N_{MAX} (Nm) | Stall Current I_0^* (A _{RMS}) | Rated Current I_N (A _{RMS}) | Peak Current I_{MAX} (A _{RMS}) | Rated Power P_N (kW) | Moment of Inertia J (kg.m ² .10 ⁻⁵) | Product Code | | | | | | | | | |
|------------------------------------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------|--------------|---|---|---|---|---|---|---|--|--|
| 230 VAC supply voltage - mono or three-phased | | | | | | | | | | | | | | | | | | |
| 6000 | 0.45 | 0.33 | 1.72 | 0.99 | 0.78 | 3.96 | 0.21 | 1.30 | N X 1 1 0 E | P | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 5000 | 0.45 | 0.37 | 2 | 1.01 | 0.84 | 5.08 | 0.19 | 2.10 | N X 2 0 5 E | V | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 7500 | 0.45 | 0.29 | 2 | 1.4 | 0.95 | 7.01 | 0.23 | 2.10 | N X 2 0 5 E | S | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 4000 | 1 | 0.80 | 3.4 | 1.34 | 1.11 | 5.35 | 0.34 | 3.80 | N X 2 1 0 E | T | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 6000 | 1 | 0.61 | 3.4 | 1.99 | 1.32 | 7.96 | 0.38 | 3.80 | N X 2 1 0 E | P | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 400 VAC supply voltage - three-phase | | | | | | | | | | | | | | | | | | |
| 8900 | 0.45 | 0.23 | 2 | 1.34 | 0.79 | 7.01 | 0.21 | 2.10 | N X 2 0 5 E | S | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 6000 | 1 | 0.61 | 3.4 | 1.34 | 0.89 | 5.35 | 0.38 | 3.80 | N X 2 1 0 E | T | ■ | ■ | ■ | ■ | ■ | ■ | | |
| 7000 | 1 | 0.5 | 2 | 2.75 | | | 0.21 | 3.80 | N X 2 1 0 E | G | ■ | ■ | ■ | ■ | ■ | ■ | | |

* Mounting on aluminium flange : 280 x 280 x 8 mm (NX1-2),
 Temperature < 40°C near motor's flange

Drives associations

| Motor | Rated Speed N_N (rpm) | Compax 3 | | 637f/638 | Digivex |
|------------------------------------------------------|-------------------------------|-----------------|--------------------|----------------------|-----------------|
| | | Drive reference | Max.Speed (rpm) | Drive reference | Drive reference |
| 230 VAC supply voltage - mono or three-phased | | | | | |
| N X 1 1 0 E ■ P ■ ■ ■ ■ ■ | 6000 | C3S100V2... | 6000 | 638A-01-3-F-0-STO... | DLD13M04R |
| N X 2 0 5 E ■ V ■ ■ ■ ■ ■ | 5000 | C3S100V2... | 5000 | 638A-01-3-F-0-STO... | DLD13M04R |
| N X 2 0 5 E ■ S ■ ■ ■ ■ ■ | 7500 | C3S100V2... | 7500 | 638A-02-3-F-0-STO... | DLD13M04R |
| N X 2 1 0 E ■ T ■ ■ ■ ■ ■ | 4000 | C3S100V2... | 3420 | 638A-02-3-F-0-STO... | DLD13M04R |
| N X 2 1 0 E ■ P ■ ■ ■ ■ ■ | 6000 | C3S100V2... | 5530 | 638A-02-3-F-0-STO... | DLD13M04R |
| 400 VAC supply voltage - three-phased | | | | | |
| N X 2 0 5 E ■ S ■ ■ ■ ■ ■ | 8900 | C3S015V4... | 8900 | 638B-03-6-F-0-STO... | DSD16002... |
| N X 2 1 0 E ■ T ■ ■ ■ ■ ■ | 6000 | C3S015V4... | 6000 | 638B-03-6-F-0-STO... | DSD16002... |
| N X 2 1 0 E ■ G ■ ■ ■ ■ ■ | 7000 | C3S038V4... | 7000 | 638B-05-6-F-0-STO... | DSD16004... |

1 NX1 - NX2 models

CE motors

0,45 - 1 Nm



NX1, NX2, CE - codification

| NX1/NX2 - Natural cooling | | Product Code Example | | | | | | | | | | |
|-----------------------------------------------------------------------|--|---------------------------|---|---|---|---|---|---|---|--|--|---|
| | | N | X | 2 | 1 | 0 | E | G | | | | |
| FEEDBACK SENSOR | | | | | | | | | | | | |
| 2 poles resolver (standard) | | | | | | | | A | | | | |
| Cost effective absolute POSIVEX encoder (NX1 on request) | | | | | | | | M | | | | |
| Absolute single-turn HIPERFACE encoder 128 ppr SKS36 (NX1 on request) | | | | | | | | R | | | | |
| Absolute multi-turn HIPERFACE encoder 128 ppr SKM36 (NX1 on request) | | | | | | | | S | | | | |
| Absolute single-turn ENDAT encoder ECN 1113 (NX1 on request) | | | | | | | | V | | | | |
| Absolute multi-turn ENDAT encoder EQN 1125 (NX 1 on request) | | | | | | | | W | | | | |
| Low cost encoder with 10 commutation tracks 2048 ppr (NX1 on request) | | | | | | | | X | | | | |
| Absolute multi-turn HIPERFACE 16ppr SEL37 (NX1 on request) | | | | | | | | Q | | | | |
| PAINTING | | | | | | | | | | | | |
| Without painting (standard) | | | | | | | | | R | | | |
| Black mat | | | | | | | | | B | | | |
| CONNECTIONS | | VENTILATION | | | | | | | | | | |
| Flying cables | | No | | | | | | | | | | 1 |
| Wires with shielded sleeve | | No | | | | | | | | | | 4 |
| Connectors (standard) | | No | | | | | | | | | | 7 |
| BRAKE | | THERMAL PROTECTION | | | | | | | | | | |
| Without brake | | No protection | | | | | | | | | | 0 |
| Without brake | | PTC on power connection | | | | | | | | | | 1 |
| With brake | | No protection | | | | | | | | | | 3 |
| With brake | | PTC on power connection | | | | | | | | | | 4 |
| PROTECTION DEGREE | | | | | | | | | | | | |
| IP64 (standard) | | | | | | | | | | | | 0 |
| IP65 | | | | | | | | | | | | 1 |
| SHAFT END | | | | | | | | | | | | |
| Smooth shaft (standard) | | | | | | | | | | | | 0 |
| Keyed shaft | | | | | | | | | | | | 1 |

* Mounting on aluminium flange : 280 x 280 x 8 mm (NX1-2),
 Temperature < 40°C near motor's flange

NX1 - NX2 models

CE motors

0,45 - 1 Nm

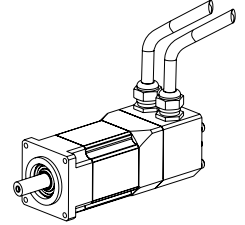
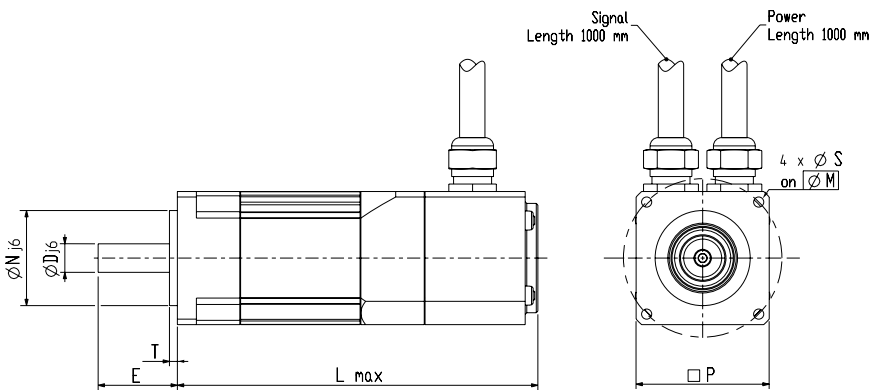


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Dimensions and drawings (resolver version)

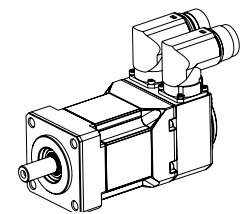
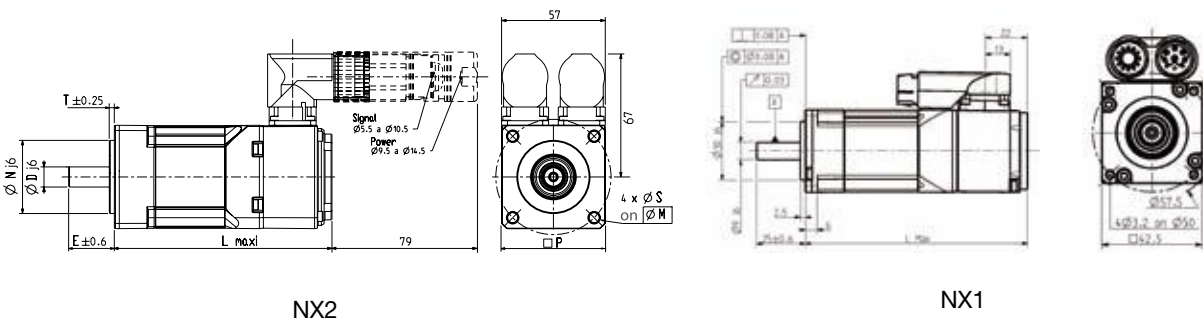
| NX1 and NX2 dimensions - wires with shielded sleeve | | | | | | | | | | | | | |
|-----------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|-------------|--------|-----------|-----------|
| Motor | N (mm) | M (mm) | D (mm) | E (mm) | T (mm) | P (mm) | S (mm) | Without brake | | With brake | | Fr* (daN) | Fa* (daN) |
| | | | | | | | | Weight (kg) | L (mm) | Weight (kg) | L (mm) | | |
| NX110 | 30 | 50 | 9 | 25 | 2.5 | 42.5 | 3.2 | 0.8 | 110 | 1 | 141 | 15 | 6.9 |
| NX205 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 0.8 | 100 | 1.1 | 137 | 28 | 15.5 |
| NX210 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 1.3 | 120 | 1.6 | 157 | 30 | 16.7 |

* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours



| NX 1 and NX2 dimensions - connectors version | | | | | | | | | | | | | |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|-------------|--------|-----------|-----------|
| Moteur | N (mm) | M (mm) | D (mm) | E (mm) | T (mm) | P (mm) | S (mm) | Without brake | | With brake | | Fr* (daN) | Fa* (daN) |
| | | | | | | | | Weight (kg) | L (mm) | Weight (kg) | L (mm) | | |
| NX 1 1 0 | 30 | 50 | 9 | 25 | 2.5 | 42.5 | 3.2 | 0.8 | 110 | 1 | 141 | 15 | 6.9 |
| NX 2 0 5 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 0.8 | 100 | 1.1 | 137 | 28 | 15.5 |
| NX 2 1 0 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 1.3 | 120 | 1.6 | 157 | 30 | 16.7 |

* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours



NX1 - NX2 models

UL motors

0,31 - 0,7 Nm



Selection and ordering

| Rated Speed N_N (rpm) | Stall Torque M_0^* (Nm) | Rated Torque M_N (Nm) | Peak Torque M_{MAX} (Nm) | Stall Current I_0^* (A _{RMS}) | Rated Current I_N (A _{RMS}) | Peak Current I_{MAX} (A _{RMS}) | Rated Power P_N (kW) | Moment of Inertia J (kg.m ² .10 ⁻⁵) | Product Code |
|------------------------------------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------|---------------------------|
| 230 VAC supply voltage - mono or three-phased | | | | | | | | | |
| 5000 | 0.31 | 0.09 | 1.72 | 0.97 | 0.34 | 1.72 | 0.05 | 1.30 | N X 1 1 0 A ■ J ■ 7 ■ ■ ■ |
| 5000 | 0.40 | 0.21 | 2 | 0.91 | 0.52 | 5.5 | 0.11 | 2.10 | N X 2 0 5 A ■ V ■ 7 ■ ■ ■ |
| 4000 | 0.70 | 0.41 | 3.4 | 1 | 0.61 | 5.58 | 0.17 | 3.80 | N X 2 1 0 A ■ T ■ 7 ■ ■ ■ |
| 480 VAC supply voltage - three-phased | | | | | | | | | |
| 6600 | 0.4 | 0.11 | 2 | 0.91 | 0.32 | 5.5 | 0.08 | 2.10 | N X 2 0 5 A ■ V ■ 7 ■ ■ ■ |
| 6000 | 0.7 | 0.15 | 3.4 | 1 | 0.27 | 5.58 | 0.09 | 3.80 | N X 2 1 0 A ■ T ■ 7 ■ ■ ■ |

Drives associations

| Motor | Rated Speed N_N (rpm) | Compax 3 | | AC890SD | 637f/638 | Digivex |
|------------------------------------------------------|-------------------------------|-----------------|---------------------|--------------------|----------------------|-----------------|
| | | Drive reference | Max. speed (rpm) | Drive reference | Drive reference | Drive reference |
| 230 VAC supply voltage - mono or three-phased | | | | | | |
| NX110A ■ J ■ 7 ■ ■ ■ | 5000 | C3S100V2 ... | 5000 | 890SD-231300B0 ... | 638A-01-3-F-0-STO... | DSD13004... |
| NX205A ■ V ■ 7 ■ ■ ■ | 5000 | C3S100V2 ... | 5000 | 890SD-231300B0... | 638A-01-3-F-0-STO... | DSD13004... |
| NX210A ■ T ■ 7 ■ ■ ■ | 4000 | C3S100V2 ... | 3420 | 890SD-231300B0... | 638A-01-3-F-0-STO... | DSD13004... |
| 480 VAC supply voltage - three-phased | | | | | | |
| NX205A ■ V ■ 7 ■ ■ ■ | 6600 | - | - | 890SD-531200B0... | - | - |
| NX210A ■ T ■ 7 ■ ■ ■ | 6000 | - | - | 890SD-531200B0... | - | - |



NX1 - NX2 models

UL motors

0,31 - 0,7 Nm

NX 1, NX2 UL codification

| NX1, NX2 - natural cooling | | Product code example | | | | | | | | | | | | |
|-----------------------------------------------------------------|---------------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N | X | 2 | 1 | 0 | A | ▪ | T | ▪ | 7 | ▪ | ▪ | ▪ |
| FEEDBACK SENSOR | | | | | | | | | | | | | | |
| 2 poles resolver (standard) | | | | | | | | | A | | | | | |
| Cost effective absolute POSIVEX encoder (NX2 only) | | | | | | | | | M | | | | | |
| Absolute single-turn HIPERFACE encoder 128 ppt SKS36 (NX2 only) | | | | | | | | | R | | | | | |
| Absolute multi-turn HIPERFACE encoder 128 ppt SKM36 (NX2 only) | | | | | | | | | S | | | | | |
| Absolute single-turn ENDAT encoder ECN 1113 (NX2 only) | | | | | | | | | V | | | | | |
| Absolute multi-turn ENDAT encoder EQN 1125 (NX 2 only) | | | | | | | | | W | | | | | |
| Low cost encoder with 10 commutation tracks 2048 ppr (NX2 only) | | | | | | | | | X | | | | | |
| PAINTING | | | | | | | | | | | | | | |
| Without painting (standard) | | | | | | | | | | R | | | | |
| Black mat | | | | | | | | | | B | | | | |
| BRAKE | THERMAL PROTECTION | | | | | | | | | | | | | |
| Without brake (standard) | No protection | | | | | | | | | | | | 0 | |
| With brake | No protection | | | | | | | | | | | | 3 | |
| PROTECTION DEGREE | | | | | | | | | | | | | | |
| IP64 (standard) | | | | | | | | | | | | | | 0 |
| IP65 | | | | | | | | | | | | | | 1 |
| SHAFT END | | | | | | | | | | | | | | |
| Smooth shaft (standard) | | | | | | | | | | | | | | 0 |
| Keyed shaft | | | | | | | | | | | | | | 1 |

1 NX1 - NX2 models

UL motors

0,31 - 0,7 Nm



Dimensions and drawings (resolver version)

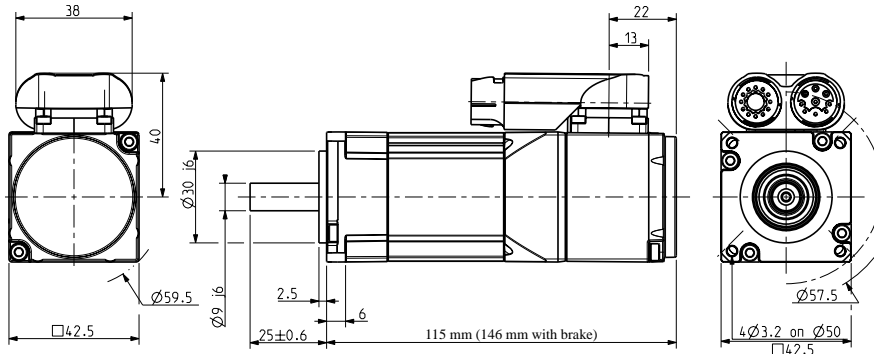
| NX1- NX2 - connectors version | | | | | | | | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|-------------|--------|-----------|-----------|
| Motor | N (mm) | M (mm) | D (mm) | E (mm) | T (mm) | P (mm) | S (mm) | Without brake | | With brake | | Fr* (daN) | Fa* (daN) |
| | | | | | | | | Weight (kg) | L (mm) | Weight (kg) | L (mm) | | |
| NX110 | 30 | 50 | 9 | 25 | 2.5 | 42.5 | 3.2 | 0.8 | 134 | 1 | 141 | 15 | 6.9 |
| NX205 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 0.8 | 129 | 1.1 | 137 | 28 | 15.5 |
| NX210 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 1.3 | 149 | 1.6 | 157 | 30 | 16.7 |

| NX2 - cables version | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|-------------|--------|-----------|-----------|
| Motor | N (mm) | M (mm) | D (mm) | E (mm) | T (mm) | P (mm) | S (mm) | Weight (kg) | L (mm) | Weight (kg) | L (mm) | Fr* (daN) | Fa* (daN) |
| NX205 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 0.8 | 129 | 1.1 | 137 | 28 | 15.5 |
| NX210 | 40 | 63 | 11 | 25 | 2.5 | 56.5 | 5.5 | 1.3 | 149 | 1.6 | 157 | 30 | 16.7 |

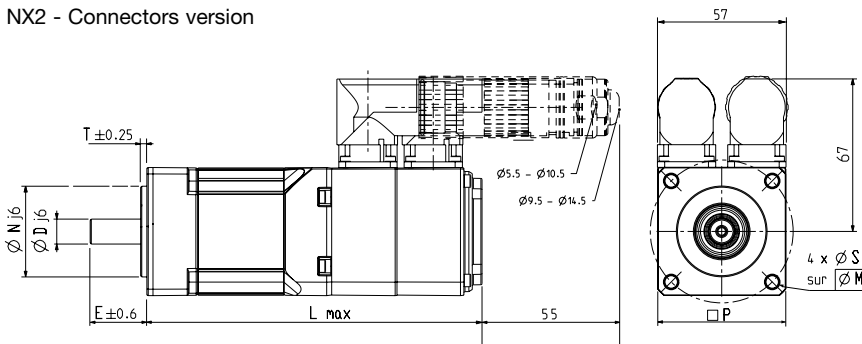


* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours

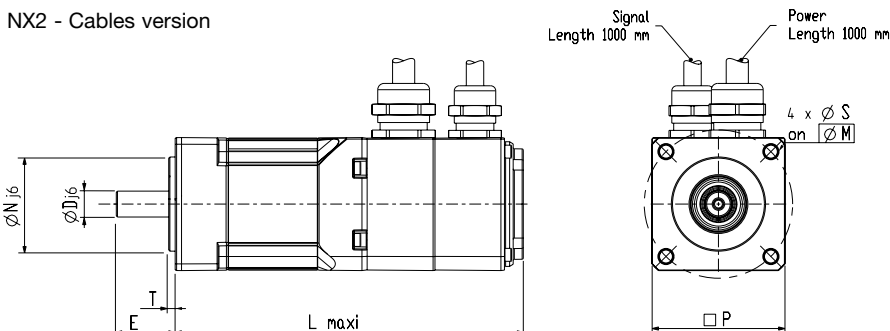
NX1 - Connectors version



NX2 - Connectors version



NX2 - Cables version



NX3 - NX8 models

CE and UL motors

2 - 41 Nm



Selection and ordering

| Rated Speed N_N (rpm) | Stall Torque M_0^* (Nm) | Rated Torque M_N (Nm) | Peak Torque M_{MAX} (Nm) | Stall Current I_0^* (A _{RMS}) | Rated Current I_N (A _{RMS}) | Peak Current I_{MAX} (A _{RMS}) | Rated Power P_N (kW) | Moment of Inertia J (kg.m ² .10 ⁻⁵) | Product Code | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 230 VAC supply voltage - mono or three-phased | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | 2 | 1.8 | 6.6 | 1.39 | 1.27 | 5.56 | 0.43 | 7.90 | N X 3 1 0 E | P | | | | | | | | | | | | | | | | | |
| 4000 | 2 | 1.65 | 6.6 | 2.43 | 2.06 | 9.71 | 0.69 | 7.90 | N X 3 1 0 E | K | | | | | | | | | | | | | | | | | |
| 6600 | 2 | 1.4 | 6.6 | 3.85 | 2.85 | 15.4 | 0.97 | 7.90 | N X 3 1 0 E | X | | | | | | | | | | | | | | | | | |
| 2300 | 4 | 3.53 | 13.4 | 2.71 | 2.41 | 10.9 | 0.85 | 29.00 | N X 4 2 0 E | P | | | | | | | | | | | | | | | | | |
| 4000 | 4 | 3.14 | 13.4 | 4.69 | 3.74 | 18.8 | 1.32 | 29.00 | N X 4 2 0 E | J | | | | | | | | | | | | | | | | | |
| 550 | 5.5 | 5.45 | 18.8 | 1.41 | 1.4 | 5.64 | 0.31 | 42.60 | N X 4 3 0 E | V | | | | | | | | | | | | | | | | | |
| 3200 | 5.5 | 4.68 | 18.8 | 5.24 | 4.53 | 21 | 1.57 | 42.60 | N X 4 3 0 E | J | | | | | | | | | | | | | | | | | |
| 3400 | 5.5 | 4.59 | 18.8 | 5.64 | 4.78 | 22.5 | 1.64 | 42.60 | N X 4 3 0 E | H | | | | | | | | | | | | | | | | | |
| 4000 | 5.5 | 4.29 | 18.8 | 6.64 | 5.28 | 26.5 | 1.80 | 42.60 | N X 4 3 0 E | F | | | | | | | | | | | | | | | | | |
| 2200 | 8 | 7.42 | 26.7 | 5.31 | 4.99 | 21.2 | 1.71 | 98.00 | N X 6 2 0 E | R | | | | | | | | | | | | | | | | | |
| 4000 | 8 | 6.08 | 26.7 | 9.89 | 7.82 | 39.5 | 2.55 | 98.00 | N X 6 2 0 E | J | | | | | | | | | | | | | | | | | |
| 1450 | 12 | 10.73 | 40 | 5.25 | 4.75 | 21 | 1.63 | 147.00 | N X 6 3 0 E | R | | | | | | | | | | | | | | | | | |
| 2800 | 12 | 9.21 | 40 | 9.86 | 7.8 | 39.4 | 2.70 | 147.00 | N X 6 3 0 E | K | | | | | | | | | | | | | | | | | |
| 4000 | 12 | 7.6 | 40 | 13.9 | 9.31 | 55.6 | 3.18 | 147.00 | N X 6 3 0 E | G | | | | | | | | | | | | | | | | | |
| 1000 | 16 | 15.38 | 50 | 5.16 | 4.99 | 20.3 | 1.61 | 320.00 | N X 8 2 0 E | X | | | | | | | | | | | | | | | | | |
| 2200 | 16 | 14.48 | 50 | 11 | 10.04 | 43.2 | 3.34 | 320.00 | N X 8 2 0 E | R | | | | | | | | | | | | | | | | | |
| 3600 | 16 | 13.24 | 50 | 17.5 | 14.82 | 69.1 | 4.99 | 320.00 | N X 8 2 0 E | L | | | | | | | | | | | | | | | | | |
| 1200 | 258 | 25.54 | 92 | 10.1 | 9.27 | 39.9 | 3.21 | 620.00 | N X 8 4 0 E | Q | | | | | | | | | | | | | | | | | |
| 1700 | 20.5 | 20.5 | 92 | 11.1 | 11.24 | 59.8 | 3.65 | 620.00 | N X 8 4 0 E | L | | | | | | | | | | | | | | | | | |
| 2200 | 28 | 22.88 | 92 | 18.9 | 15.7 | 74.8 | 5.27 | 620.00 | N X 8 4 0 E | J | | | | | | | | | | | | | | | | | |
| 2600 | 41 | 27.47 | 137 | 33 | 22.72 | 132 | 7.48 | 920.00 | N X 8 6 0 E | D | | | | | | | | | | | | | | | | | |
| 400 VAC supply voltage - three-phase | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 2 | 1.65 | 6.6 | 1.39 | 1.18 | 5.56 | 0.69 | 7.90 | N X 3 1 0 E | P | | | | | | | | | | | | | | | | | |
| 9800 | 2 | 0.71 | 6.6 | 3.38 | 1.42 | 13.5 | 0.72 | 7.90 | N X 3 1 0 E | I | | | | | | | | | | | | | | | | | |
| 2000 | 4 | 3.60 | 13.4 | 1.36 | 1.23 | 5.47 | 0.75 | 29.00 | N X 4 2 0 E | V | | | | | | | | | | | | | | | | | |
| 4000 | 4 | 3.14 | 13.4 | 2.71 | 2.16 | 10.9 | 1.32 | 29.00 | N X 4 2 0 E | P | | | | | | | | | | | | | | | | | |
| 7500 | 4 | 1.90 | | 5.43 | | | 1.49 | 29.00 | N X 4 2 0 E | X | | | | | | | | | | | | | | | | | |
| 1000 | 5.5 | 5.38 | 18.8 | 1.41 | 1.38 | 5.64 | 0.56 | 42.60 | N X 4 3 0 E | V | | | | | | | | | | | | | | | | | |
| 3000 | 5.5 | 4.77 | 18.8 | 2.82 | 2.48 | 11.3 | 1.50 | 42.60 | N X 4 3 0 E | P | | | | | | | | | | | | | | | | | |
| 4000 | 5.5 | 4.29 | 18.8 | 3.78 | 3.01 | 15.1 | 1.80 | 42.60 | N X 4 3 0 E | L | | | | | | | | | | | | | | | | | |
| 6000 | 5.5 | 2.98 | 18.8 | 6.64 | 3.76 | 26.5 | 1.87 | 42.60 | N X 4 3 0 E | F | | | | | | | | | | | | | | | | | |
| 2000 | 8 | 7.52 | 26.7 | 2.83 | 2.69 | 11.3 | 1.58 | 98.00 | N X 6 2 0 E | V | | | | | | | | | | | | | | | | | |
| 3900 | 8 | 6.17 | 26.7 | 5.31 | 4.25 | 21.2 | 2.52 | 98.00 | N X 6 2 0 E | R | | | | | | | | | | | | | | | | | |
| 4500 | 8 | 4.10 | 26.7 | 9.89 | 5.56 | 39.5 | 1.93 | 98.00 | N X 6 2 0 E | J | | | | | | | | | | | | | | | | | |
| 6000 | 8 | 3.68 | 26.7 | 12.1 | 6.19 | 48.3 | 2.31 | 98.00 | N X 6 2 0 E | D | | | | | | | | | | | | | | | | | |
| 1350 | 12 | 10.83 | 40 | 2.62 | 2.4 | 10.5 | 1.53 | 147.00 | N X 6 3 0 E | V | | | | | | | | | | | | | | | | | |
| 2700 | 12 | 9.34 | 40 | 5.25 | 4.2 | 21 | 2.64 | 147.00 | N X 6 3 0 E | R | | | | | | | | | | | | | | | | | |
| 4000 | 12 | 7.60 | 40 | 7.92 | 5.3 | 31.6 | 3.18 | 147.00 | N X 6 3 0 E | N | | | | | | | | | | | | | | | | | |
| 5000 | 12 | 6.07 | 40 | 13.9 | 7.64 | 55.6 | 3.18 | 147.00 | N X 6 3 0 E | G | | | | | | | | | | | | | | | | | |
| 1900 | 16 | 14.72 | 50 | 5.16 | 4.79 | 20.3 | 2.93 | 320.00 | N X 8 2 0 E | X | | | | | | | | | | | | | | | | | |
| 3900 | 160 | 12.94 | 50 | 11 | 9.07 | 43.2 | 5.28 | 320.00 | N X 8 2 0 E | R | | | | | | | | | | | | | | | | | |
| 2100 | 28 | 23.17 | 92 | 10.1 | 8.47 | 39.9 | 5.10 | 620.00 | N X 8 4 0 E | Q | | | | | | | | | | | | | | | | | |
| 3100 | 20.5 | 20.50 | 92 | 11.1 | 11.09 | 59.8 | 6.49 | 620.00 | N X 8 4 0 E | L | | | | | | | | | | | | | | | | | |
| 3500 | 28 | 18.56 | 92 | 16.8 | 11.51 | 66.5 | 6.80 | 620.00 | N X 8 4 0 E | K | | | | | | | | | | | | | | | | | |
| 4500 | 28 | 14.00 | 65 | 21.7 | | | 6.60 | 620.00 | N X 8 4 0 E | H | | | | | | | | | | | | | | | | | |
| 1700 | 41 | 34.10 | 137 | 14.8 | 12.44 | 59.2 | 6.07 | 920.00 | N X 8 6 0 E | L | | | | | | | | | | | | | | | | | |
| 2600 | 41 | 27.47 | 137 | 18.5 | 12.78 | 74 | 7.48 | 920.00 | N X 8 6 0 E | J | | | | | | | | | | | | | | | | | |
| 3200 | 41 | 21.89 | 137 | 27 | 14.88 | 108 | 7.34 | 920.00 | N X 8 6 0 E | F | | | | | | | | | | | | | | | | | |

* Mounting on aluminium flange : 400 x 400 x 12 mm (NX3-8)
 Temperature < 40°C near motor's flange

NX3 - NX8 models

CE and UL motors

2 - 41 Nm



Selection and ordering

| Rated Speed N_N (rpm) | Stall Torque M_0^* (Nm) | Rated Torque M_N (Nm) | Peak Torque M_{MAX} (Nm) | Stall Current I_0^* (A _{RMS}) | Rated Current I_N (A _{RMS}) | Peak Current I_{MAX} (A _{RMS}) | Rated Power P_N (kW) | Moment of Inertia J (kg.m ² .10 ⁻⁵) | Product Code |
|---------------------------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------|---------------------------|
| 480 VAC supply voltage - three-phase | | | | | | | | | |
| 4800 | 2.00 | 1.57 | 6.6 | 1.39 | 1.13 | 5.56 | 0.79 | 7.90 | N X 3 1 0 E ■ P ■ ■ ■ ■ ■ |
| 2300 | 4.00 | 3.53 | 13.4 | 1.36 | 1.21 | 5.47 | 0.85 | 29.00 | N X 4 2 0 E ■ V ■ ■ ■ ■ ■ |
| 4700 | 4.00 | 2.96 | 13.4 | 2.71 | 2.05 | 10.9 | 1.46 | 29.00 | N X 4 2 0 E ■ P ■ ■ ■ ■ ■ |
| 1200 | 5.50 | 5.34 | 18.8 | 1.41 | 1.37 | 5.64 | 0.67 | 42.60 | N X 4 3 0 E ■ V ■ ■ ■ ■ ■ |
| 3500 | 5.50 | 4.55 | 18.8 | 2.82 | 2.37 | 11.3 | 1.67 | 42.60 | N X 4 3 0 E ■ P ■ ■ ■ ■ ■ |
| 4600 | 5.50 | 3.95 | 18.8 | 3.78 | 2.78 | 15.1 | 1.90 | 42.60 | N X 4 3 0 E ■ L ■ ■ ■ ■ ■ |
| 2300 | 8.00 | 7.36 | 26.7 | 2.83 | 2.64 | 11.3 | 1.77 | 98.00 | N X 6 2 0 E ■ V ■ ■ ■ ■ ■ |
| 4500 | 8.00 | 5.57 | 26.7 | 5.31 | 3.89 | 21.2 | 2.62 | 98.00 | N X 6 2 0 E ■ R ■ ■ ■ ■ ■ |
| 5700 | 8.00 | 4.10 | 26.7 | 9.89 | 5.56 | 39.5 | 2.45 | 98.00 | N X 6 2 0 E ■ J ■ ■ ■ ■ ■ |
| 1500 | 12.00 | 10.68 | 40 | 2.62 | 2.37 | 10.5 | 1.68 | 147.00 | N X 6 3 0 E ■ V ■ ■ ■ ■ ■ |
| 3100 | 12.00 | 8.84 | 40 | 5.25 | 4 | 21 | 2.87 | 147.00 | N X 6 3 0 E ■ R ■ ■ ■ ■ ■ |
| 4600 | 12.00 | 6.70 | 40 | 7.92 | 4,74 | 31.6 | 3.23 | 147.00 | N X 6 3 0 E ■ N ■ ■ ■ ■ ■ |
| 2100 | 16.00 | 14.56 | 50 | 5.16 | 4.75 | 20.3 | 3.20 | 320.00 | N X 8 2 0 E ■ X ■ ■ ■ ■ ■ |
| 4600 | 16.00 | 12.22 | 50 | 11 | 8.62 | 43.2 | 5.89 | 320.00 | N X 8 2 0 E ■ R ■ ■ ■ ■ ■ |
| 2400 | 28.00 | 22.27 | 92 | 10.1 | 8.17 | 39.9 | 5.60 | 620.00 | N X 8 4 0 E ■ Q ■ ■ ■ ■ ■ |
| 4000 | 28.00 | 16.65 | 92 | 16.8 | 10.43 | 66.5 | 6.97 | 620.00 | N X 8 4 0 E ■ K ■ ■ ■ ■ ■ |
| 3000 | 41.00 | 23.85 | 137 | 18.5 | 11.22 | 74 | 7.49 | 920.00 | N X 8 6 0 E ■ J ■ ■ ■ ■ ■ |

* Mounting on aluminium flange : 400 x 400 x 12 mm (NX3-8)
 Temperature < 40°C near motor's flange

NX3 - NX8 models

CE and UL motors

2 - 41 Nm



Drives associations

| Motor | Rated Speed N _N (rpm) | Compax 3 | | AC890SD | 637f/638 | Digivex |
|------------------------------------------------------|----------------------------------------|-----------------|---------------------|-------------------|--------------------|-----------------|
| | | Drive reference | Max. speed (rpm) | Drive reference | Drive reference | Drive reference |
| 230 VAC supply voltage - mono or three-phased | | | | | | |
| NX310E■P■..... | 2300 | C3S025V2... | 1930 | 890SD-231300B0... | 638A-02-3-F-0-STO | DLD13M04... |
| NX310E■K■..... | 4000 | C3S025V2... | 3600 | 890SD-231550B0... | 638A-04-3-F-0-STO | DLD13M04... |
| NX310E■X■..... | 6600 | C3S063V2... | 5590 | 890SD-231550B0... | 638A-04-3-F-0-STO | DLD13M04... |
| NX420E■P■..... | 2300 | C3S100V2... | 1990 | 890SD-231550B0... | 638A-04-3-F-0-STO | DLD13M04... |
| NX420E■J■..... | 4000 | C3S100V2... | 3620 | 890SD-231700B0... | 638A-04-3-F-0-STO | DLD13007... |
| NX430E■V■..... | 550 | C3S025V2... | 550 | 890SD-231300B0... | 638A-02-3-F-0-STO | DLD13M02... |
| NX430E■J■..... | 3200 | C3S100V2... | 2860 | 890SD-231700B0... | 638A-06-3-F-0-STO | DLD13007... |
| NX430E■H■..... | 3400 | C3S100V2... | 3110 | 890SD-231700B0... | 638A-06-3-F-0-STO | DLD13007... |
| NX430E■F■..... | 4000 | C3S100V2... | 3700 | 890SD-232110B0... | - | DSD13015... |
| NX620E■R■..... | 2200 | C3S100V2... | 1880 | 890SD-231700B0... | 638A-06-3-F-0-STO | DLD13007... |
| NX620E■J■..... | 4000 | C3S100V2... | 3670 | 890SD-232165B0... | - | DSD13015... |
| NX630E■R■..... | 1450 | C3S100V2... | 1320 | 890SD-231700B0... | 638A-06-3-F-0-STO- | DLD13007... |
| NX630E■K■..... | 2800 | C3S100V2... | 2600 | 890SD-232165B0... | - | DSD13015... |
| NX630E■G■..... | 4000 | C3S150V2... | 3750 | 890SD-232240C0... | - | DSD13015... |
| NX820E■X■..... | 1000 | C3S100V2... | 890 | 890SD-231700B0... | 638A-06-3-F-0-STO- | DLD13007... |
| NX820E■R■..... | 2200 | C3S150V2... | 2000 | 890SD-232165B0... | - | DSD13015... |
| NX820E■L■..... | 3600 | - | 3310 | 890SD-232240C0... | - | DSD13030... |
| NX840E■Q■..... | 1200 | C3S100V2... | 1060 | 890SD-232165B0... | - | DSD13015... |
| NX840E■L■..... | 1700 | C3S150V2... | 1630 | 890SD-232165B0... | - | DSD13015... |
| NX840E■J■..... | 2200 | - | 2070 | 890SD-232240C0... | - | DSD13030... |
| NX860E■D■..... | 2600 | - | 2510 | 890SD-232300C0... | - | - |

| | | | | | | |
|----------------------------------------------|------|-------------|------|-------------------|-------------------|-------------|
| 400 VAC supply voltage - three-phased | | | | | | |
| NX310E■P■..... | 4000 | C3S015V4... | 3570 | 890SD-531200B0... | 638B-03-6-F-0-STO | DSD16002... |
| NX310E■I■..... | 9800 | C3S038V4... | 9510 | 890SD-531450B0... | 638B-05-6-F-0-STO | DSD16004... |
| NX420E■V■..... | 2000 | C3S015V4... | 1710 | 890SD-531200B0... | 638B-03-6-F-0-STO | DSD16002... |
| NX420E■P■..... | 4000 | C3S038V4... | 3630 | 890SD-531450B0... | 638B-05-6-F-0-STO | DSD16004... |
| NX420E■X■..... | 7500 | C3S075V4... | 7500 | 890SD-532100B0... | 638B-08-6-F-0-STO | DSD16008... |
| NX430E■V■..... | 1000 | C3S015V4... | 1000 | 890SD-531200B0... | 638B-03-6-F-0-STO | DSD16002... |
| NX430E■P■..... | 3000 | C3S038V4... | 2670 | 890SD-531450B0... | 638B-05-6-F-0-STO | DSD16004... |
| NX430E■L■..... | 4000 | C3S038V4... | 3650 | 890SD-531600B0... | 638B-05-6-F-0-STO | DSD16008... |
| NX430E■F■..... | 6000 | C3S075V4... | 6000 | 890SD-532120B0... | 638B-08-6-F-0-STO | DSD16008... |
| NX620E■V■..... | 2000 | C3S038V4... | 1730 | 890SD-531450B0... | 638B-05-6-F-0-STO | DSD16004... |
| NX620E■R■..... | 3900 | C3S075V4... | 3440 | 890SD-532100B0... | 638B-08-6-F-0-STO | DSD16008... |
| NX620E■J■..... | 4500 | C3S150V4... | 5700 | 890SD-532160B0... | 638B-10-6-F-0-STO | DSD16016... |
| NX620E■D■..... | 6000 | C3S150V4... | 6000 | 890SD-532240C0... | 637F/KD6R22-7 | DSD16016... |
| NX630E■V■..... | 1350 | C3S038V4... | 1150 | 890SD-531450B0... | 638B-05-6-F-0-STO | DSD16004... |
| NX630E■R■..... | 2700 | C3S075V4... | 2390 | 890SD-532100B0... | 638B-08-6-F-0-STO | DSD16008... |
| NX630E■N■..... | 4000 | C3S150V4... | 3710 | 890SD-532120B0... | 638B-10-6-F-0-STO | DSD16016... |
| NX630E■G■..... | 5000 | C3S150V4... | 5000 | 890SD-532240C0... | 637F/KD6R22-7 | DSD16016... |
| NX820E■X■..... | 1900 | C3S075V4... | 1620 | 890SD-532100B0... | 638B-08-6-F-0-STO | DSD16008... |
| NX820E■R■..... | 3900 | C3S150V4... | 3600 | 890SD-532160B0... | 638B-15-6-F-0-STO | DSD16016... |
| NX840E■Q■..... | 2100 | C3S150V4... | 1910 | 890SD-532160B0... | 638B-10-6-F-0-STO | DSD16016... |
| NX840E■L■..... | 3100 | C3S150V4... | 2930 | 890SD-532160B0... | 638B-15-6-F-0-STO | DSD16016... |
| NX840E■K■..... | 3500 | C3S300V4... | 3270 | 890SD-532240C0... | 637F/KD6R22-7 | DSD16032... |
| NX840E■H■..... | 4500 | C3S300V4... | 4290 | 890SD-532300C0... | 637F/KD6R22-7 | DSD16032... |
| NX860E■L■..... | 1700 | C3S150V4... | 1700 | 890SD-532240C0... | 637F/KD6R22-7 | DSD16016... |
| NX860E■J■..... | 2600 | C3S300V4... | 2440 | 890SD-532240C0... | 637F/KD6R22-7 | DSD16032... |
| NX860E■F■..... | 3200 | C3S300V4... | 3200 | 890SD-532390C0 | 637F/KD6R22-7 | DSD16032... |



NX3 - NX8 models

CE and UL motors

2 - 41 Nm



NX3 - NX8, CE and UL - codification

| NX3/4/6/8 - natural cooling | | Product Code Example | | | | | | | |
|------------------------------------------------------|--|-------------------------------------------------------------------|----------|---|---|----------|---|---|----------|
| | | NX860E | ▪ | D | ▪ | ▪ | ▪ | ▪ | ▪ |
| FEEDBACK SENSOR | | | | | | | | | |
| 2 poles resolver (standard) | | | A | | | | | | |
| Cost effective absolute POSIVEX encoder | | | M | | | | | | |
| Absolute singleturn HIPERFACE encoder 128 ppr SKS36 | | | R | | | | | | |
| Absolute multiturn HIPERFACE encoder 128 ppr SKM36 | | | S | | | | | | |
| Absolute singleturn HIPERFACE encoder 1024 ppr SRS50 | | | T | | | | | | |
| Absolute multiturn HIPERFACE encoder 1024 ppr SRM50 | | | U | | | | | | |
| Absolute singleturn ENDAT encoder ECN 1113 | | | V | | | | | | |
| Absolute multiturn ENDAT encoder EQN 1125 | | | W | | | | | | |
| Low cost encoder with 10 commutation tracks 2048 ppr | | | X | | | | | | |
| Absolute multi-turn HIPERFACE 16ppr SEL37 | | | Q | | | | | | |
| PAINTING | | | | | | | | | |
| Without painting (standard) | | | | | | R | | | |
| Black mat | | | | | | B | | | |
| CONNECTIONS | | VENTILATION | | | | | | | |
| Shielded cables | | No | | | | | | | 1 |
| Connectors (standard) | | No | | | | | | | 7 |
| BRAKE | | THERMAL PROTECTION | | | | | | | |
| Without brake (standard) | | No protection | | | | | | | 0 |
| Without brake | | PTC on power connection | | | | | | | 1 |
| Without brake | | Thermo switch on power connection | | | | | | | 2 |
| With brake | | No protection | | | | | | | 3 |
| With brake | | PTC on power connection | | | | | | | 4 |
| With brake | | Thermo switch on power connection | | | | | | | 5 |
| Without brake | | PTC on sensor connection (not available for UL version) | | | | | | | A |
| Without brake | | Thermo switch on sensor connection (not available for UL version) | | | | | | | B |
| Without brake | | KTY on sensor connector (not available for UL version) | | | | | | | C |
| With brake | | PTC on sensor connection (not available for UL version) | | | | | | | D |
| With brake | | Thermo switch on sensor connection (not available for UL version) | | | | | | | E |
| With brake | | KTY on sensor connection (not available for UL version) | | | | | | | F |
| PROTECTION DEGREE | | | | | | | | | |
| IP64 | | | | | | | | | 0 |
| IP65 | | | | | | | | | 1 |
| SHAFT END | | | | | | | | | |
| Smooth shaft | | | | | | | | | 0 |
| Keyed shaft | | | | | | | | | 1 |

NX3 - NX8 models

CE and UL motors

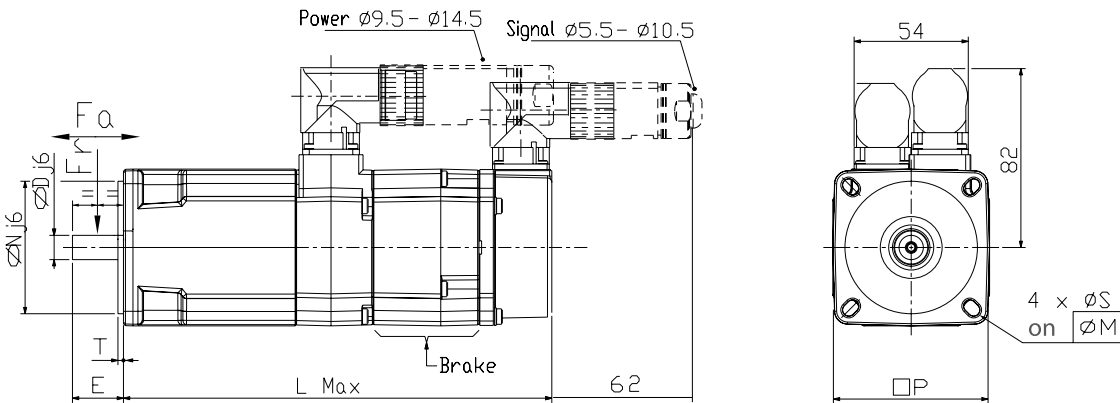
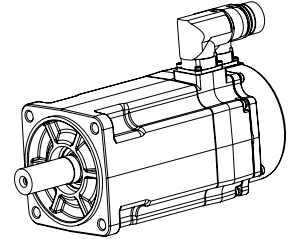
2 - 41 Nm



Dimensions and drawings (resolver version)

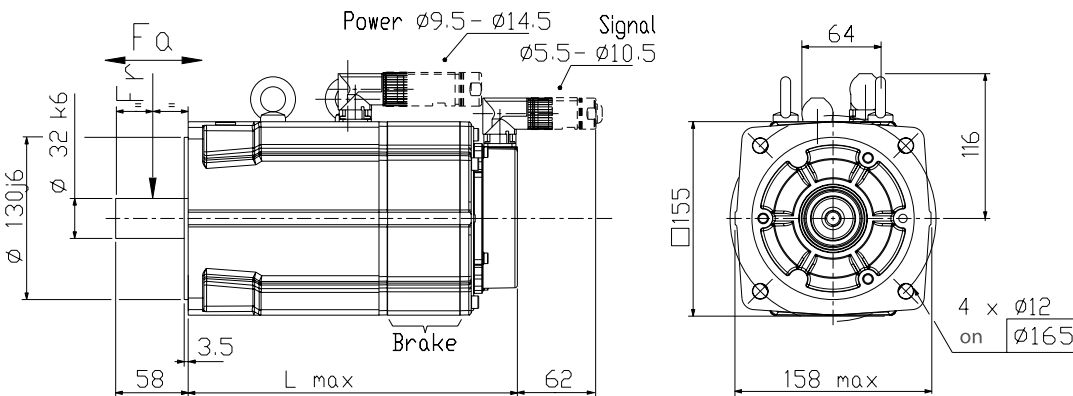
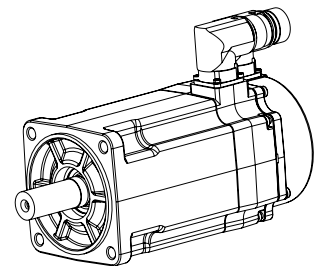
| NX3, NX4, NX6 dimensions | | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|-------------|--------|-----------|-----------|
| Motor | N (mm) | M (mm) | D (mm) | E (mm) | T (mm) | P (mm) | S (mm) | Without brake | | With brake | | Fr* (daN) | Fa* (daN) |
| | | | | | | | | Weight (kg) | L (mm) | Weight (kg) | L (mm) | | |
| NX310 | 60 | 75-80 | 11 | 23 | 2.5 | 71 | 5.5 | 2 | 147 | 2.4 | 195 | 36 | 20 |
| NX420 | 80 | 100 | 19 | 40 | 3 | 91.5 | 7 | 3.7 | 175 | 4.5 | 226 | 72 | 24 |
| NX430 | 80 | 100 | 19 | 40 | 3 | 91.5 | 7 | 4.6 | 200 | 5.4 | 251 | 82 | 24 |
| NX620 | 110 | 130 | 24 | 50 | 3.5 | 121 | 9 | 6.9 | 181 | 8 | 236 | 82 | 52 |
| NX630 | 110 | 130 | 24 | 50 | 3.5 | 121 | 9 | 8.8 | 210 | 10 | 265 | 86 | 54 |

* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours



| NX8 dimensions | | | | | | |
|----------------|---------------|--------|-------------|--------|-----------|-----------|
| Moteur | Without brake | | With brake | | Fr* (daN) | Fa* (daN) |
| | Weight (kg) | L (mm) | Weight (kg) | L (mm) | | |
| N X 8 2 0 | 13 | 200 | 16.5 | 266 | 151 | 28 |
| N X 8 4 0 | 20 | 260 | 23.5 | 326 | 165 | 33 |
| N X 8 6 0 | 27 | 320 | 30.5 | 386 | 172 | 37 |

* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours



NX8 Model - ventilated version

CE and UL motors

64 Nm



Selection and ordering

| Rated Speed N_N (rpm) | Stall Torque M_0 (Nm) | Rated Torque M_N (Nm) | Peak Torque M_{MAX} (Nm) | Stall Current I_0 (A _{RMS}) | Rated Current I_N (A _{RMS}) | Peak Current I_{MAX} (A _{RMS}) | Rated Power P_N (kW) | Moment of Inertia J (kg.m ² .10 ⁻⁵) | F Product Code | | | | | | | | | | | | |
|------------------------------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|
| 230 VAC supply voltage - mono or three-phased | | | | | | | | | | | | | | | | | | | | | |
| 1450 | 64.00 | 57.50 | 137 | 29.3 | 26.4 | 74 | 8.73 | 920 | N | X | 8 | 6 | 0 | V | ▪ | J | ▪ | ▪ | ▪ | ▪ | ▪ |
| 400 VAC supply voltage - three-phased | | | | | | | | | | | | | | | | | | | | | |
| 2600 | 64.00 | 50.52 | 137 | 29.3 | 23.22 | 74 | 13.76 | 920 | N | X | 8 | 6 | 0 | V | ▪ | J | ▪ | ▪ | ▪ | ▪ | ▪ |
| 3750 | 64.00 | 41.78 | 137 | 42.7 | 28.11 | 108 | 16.40 | 920 | N | X | 8 | 6 | 0 | V | ▪ | F | ▪ | ▪ | ▪ | ▪ | ▪ |
| 480 VAC supply voltage - three-phased | | | | | | | | | | | | | | | | | | | | | |
| 3000 | 64.00 | 47.67 | 137 | 29.3 | 21.95 | 74 | 14.98 | 920 | N | X | 8 | 6 | 0 | V | ▪ | J | ▪ | ▪ | ▪ | ▪ | ▪ |
| 4400 | 64.00 | 36.09 | 137 | 42.7 | 24.47 | 108 | 16.63 | 920 | N | X | 8 | 6 | 0 | V | ▪ | F | ▪ | ▪ | ▪ | ▪ | ▪ |

Drives associations

| Motor | Rated Speed N_N (rpm) | Compax 3 | | AC890SD | 637f/638 | Digivex |
|------------------------------------------------------|-------------------------------|-----------------|---------------------|-------------------|-----------------|-----------------|
| | | Drive reference | Max. speed (rpm) | Drive reference | Drive reference | Drive reference |
| 230 VAC supply voltage - mono or three-phased | | | | | | |
| N X 8 6 0 V ▪ J ▪ ▪ ▪ ▪ ▪ | 1450 | - | - | 890SD-232300C0... | - | DP▪2705 |
| 400 VAC supply voltage - three-phased | | | | | | |
| N X 8 6 0 V ▪ J ▪ ▪ ▪ ▪ ▪ | 2600 | C3S300V4... | 2230 | 890SD-532300C0... | 637F/KD6R30-7 | DP▪2705 |
| N X 8 6 0 V ▪ F ▪ ▪ ▪ ▪ ▪ | 3750 | C3S500V4... | 3400 | 890SD-532590C0... | | DP▪170 |
| 480 VAC supply voltage - three-phased | | | | | | |
| N X 8 6 0 V ▪ J ▪ ▪ ▪ ▪ ▪ | 3000 | - | - | 890SD-532390D0... | - | - |
| N X 8 6 0 V ▪ F ▪ ▪ ▪ ▪ ▪ | 4400 | - | - | 890SD-532390D0... | - | - |

NX8 Model - ventilated version

CE and UL motors

64 Nm



NX 8 ventilated version, CE and UL - codification

| | | Product code example | | | | | | | | | | | | |
|-------------------------------------------------------|--|-------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N | X | 8 | 6 | 0 | V | ▪ | J | ▪ | ▪ | ▪ | ▪ | ▪ |
| FEEDBACK SENSOR | | | | | | | | | | | | | | |
| 2 poles resolver (standard) | | | | | | | | | | | | | | |
| Cost effective absolute POSIVEX encoder | | A | | | | | | | | | | | | |
| Absolute multi-turn HIPERFACE 16ppr SEL37 | | M | | | | | | | | | | | | |
| Absolute single-turn HIPERFACE encoder 128 ppr SKS36 | | Q | | | | | | | | | | | | |
| Absolute multi-turn HIPERFACE encoder 128 ppr SKM36 | | R | | | | | | | | | | | | |
| Absolute single-turn HIPERFACE encoder 1024 ppr SRS50 | | S | | | | | | | | | | | | |
| Absolute multi-turn HIPERFACE encoder 1024 ppr SRM50 | | T | | | | | | | | | | | | |
| Absolute single-turn ENDAT encoder ECN 1113 | | U | | | | | | | | | | | | |
| Absolute multi-turn ENDAT encoder EQN 1125 | | V | | | | | | | | | | | | |
| Low cost encoder with 10 commutation tracks 2048 ppr | | W | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | |
| PAINTING | | | | | | | | | | | | | | |
| Without painting (standard) | | R | | | | | | | | | | | | |
| Black mat | | B | | | | | | | | | | | | |
| CONNECTIONS | | | | | | | | | | | | | | |
| UL power terminal box + feedback connector | | 5 | | | | | | | | | | | | |
| CE power terminal box + feedback connector | | 9 | | | | | | | | | | | | |
| BRAKE | | THERMAL PROTECTION | | | | | | | | | | | | |
| Without brake (standard) | | No protection | | | | | | | | | | 0 | | |
| Without brake | | PTC on power connection | | | | | | | | | | 1 | | |
| Without brake | | Thermo switch on power connection | | | | | | | | | | 2 | | |
| With brake | | No protection | | | | | | | | | | 3 | | |
| With brake | | PTC on power connection | | | | | | | | | | 4 | | |
| With brake | | Thermo switch on power connection | | | | | | | | | | 5 | | |
| Without brake | | PTC on sensor connection (not available for UL version) | | | | | | | | | | A | | |
| Without brake | | Thermo switch on sensor connection (not available for UL version) | | | | | | | | | | B | | |
| Without brake | | KTY on sensor connection (not available for UL version) | | | | | | | | | | C | | |
| With brake | | PTC on sensor connection (not available for UL version) | | | | | | | | | | D | | |
| With brake | | Thermo switch on sensor connection (not available for UL version) | | | | | | | | | | E | | |
| With brake | | KTY on sensor connection (not available for UL version) | | | | | | | | | | F | | |
| PROTECTION DEGREE | | | | | | | | | | | | | | |
| IP44 | | 0 | | | | | | | | | | | | |
| SHAFT END | | | | | | | | | | | | | | |
| Smooth shaft (standard) | | 0 | | | | | | | | | | | | |
| Keyed shaft | | 1 | | | | | | | | | | | | |

* Mounting on aluminium flange : 400 x 400 x 12 mm (NX3-8)
 Temperature < 40°C near motor's flange

NX8 Model - ventilated version

CE and UL motors

64 Nm



Dimensions and drawings (resolver version)

| Dimensions NX8 ventilé | | | | | | |
|------------------------|---------------|-----------|---------------|-----------|--------------|--------------|
| Moteur | Sans frein | | Sans frein | | Fr* (daN) | Fa* (daN) |
| | Masse (kg) | L (mm) | Masse (kg) | L (mm) | | |
| NX860V | 30.5 | 424 | 34 | 490 | 172 | 37 |

* Fr and Fa not cumulative : At 1500 rpm for a bearing service life of 20000 hours

