

4GX

SUBMERSIBLE MOTOR 4"



4" Asynchronous two-poles submersible motor, made in AISI 304 stainless steel for parts in contact with water. Cooling and lubrication of the thrust bearing assembly and carbon bushes is provided by a mixture of water and glycol. Squirrel-cage rotor mounted on Kingsbury self-centring thrust bearing. Stator housed in an airtight stainless steel casing (canned-type) with both flanges and shell in AISI 304L stainless steel.

Removable cable connector to allow fast and easy maintenance. The cable is certified ACS, WRAS and KTW. Motor suitable for use with variable frequency drive (30 Hz – 50/60 Hz). Capacitor and manually resettable overload protection located in the electric panel that can be supplied separately for the single-phase 50 Hz version. For the single-phase 60 Hz version the thermal protection is included in the motor (from 0.5 HP to 1 HP). Overload protection must be provided by user for the three-phase version.

Flange NEMA 4"

Insulation class F

Degree of protection IP68

Cooling flow 1.0 ft/sec @ 95 °F

Voltage tolerance + 6% / -10%

Max starts 20/h

Max operating depth 984 ft

Horizontal operation 0.5 HP - 10 HP

Motor maximum diameter 3.9"



ACCESSORIES
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TECHNICAL DATA - SINGLE PHASE MOTORS

| MODEL | 3 WIRE | | P2 | | SF | In [A] | In (SF) [A] | Is/In | CsCn | P1 [W] | N [min ⁻¹] | Cos φ | η % | C1 [μF] | C2 [μF] | Ø [AWG] | LC [ft] |
|----------------|----------|------|------|------|------|--------|-------------|-------|------|--------|------------------------|-------|-----|---------|---------|---------|---------|
| | CODE | [HP] | [kW] | [HP] | | | | | | | | | | | | | |
| 4GX - 1/2 HP | TBD | | | | | | | | | | | | | | | | |
| 4GX - 1/2 HP | TBD | | 0.5 | 0.37 | 1.6 | 10.0 | 12.6 | 4.0 | 3.2 | 800 | 3450 | 0.71 | 48 | - | 250-300 | 4x14 | 5½ |
| 4GX - 3/4 HP | 60143815 | | | | 1.6 | 5.5 | 6.8 | 4.2 | 3.9 | 800 | 3450 | 0.62 | 46 | - | 59-71 | 4x14 | 5½ |
| 4GX - 3/4 HP | 60143815 | | 0.75 | 0.55 | 1.5 | 7.4 | 8.6 | 4.6 | 3.6 | 1100 | 3450 | 0.65 | 53 | - | 86-103 | 4x14 | 5½ |
| 4GX - 1 HP | 60143816 | | | | 1.4 | 8.0 | 9.8 | 5.5 | 2.9 | 1350 | 3450 | 0.68 | 58 | - | 105-126 | 4x14 | 5½ |
| 4GX - 1 1/2 HP | 60143817 | | 1.5 | 1.1 | 1.3 | 10.0 | 12.0 | 6.0 | 1.9 | 1800 | 3450 | 0.81 | 64 | 10 | 105-126 | 4x14 | 5½ |
| 4GX - 2 HP | TBD | | 2 | 1.5 | 1.25 | 10.5 | 12.3 | 5.3 | 2.3 | 2200 | 3450 | 0.95 | 69 | 20 | 105-126 | 4x14 | 5½ |
| 4GX - 3 HP | TBD | | 3 | 2.2 | 1.15 | 14.3 | 16.2 | 5.5 | 2.1 | 3100 | 3450 | 0.97 | 72 | 45 | 208-250 | 4x14 | 5½ |
| 4GX - 5 HP | TBD | | 5 | 3.7 | 1.15 | 22.2 | 25.5 | 5.5 | 1.8 | 5000 | 3450 | 0.99 | 74 | 2x40 | 270-324 | 4x14 | 8¾ |

- V: Rated voltage
- P2: Rated output
- SF: Service factor
- In: Rated current
- In (SF): Service factor current
- Is/In: Locked rotor current/Rated current
- Cs/Cn: Locked rotor Torque/Rated Torque
- P1: Power consumption
- N: R.P.M
- Cos φ: Power factor
- η: Efficiency
- C: Capacitor
- Ø: Cable section
- LC: Cable length

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TECHNICAL DATA - THREE PHASE MOTORS

| MODEL | 3 WIRE | V [V] | P2 | | SF | In [A] | In (SF) [A] | Is/In | Cs/Cn | P1 [W] | N [min ⁻¹] | Cos φ | η % | C [μF] | CABLE | |
|----------------|----------|----------|------|------|------|-----------|----------------|-------|-------|-----------|---------------------------|-------|--------|-----------|------------|------------|
| | CODE | | [HP] | [kW] | | | | | | | | | | | ∅ [AWG] | LC [ft] |
| 4GX - 1/2 HP | TBD | 230 | 0.5 | 0.37 | 1.6 | 3.2 | 3.8 | 4.4 | 3.2 | 870 | 3450 | 0.4 | 42 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.6 | 1.6 | 1.9 | 5 | 3.2 | 870 | 3450 | 0.4 | 42 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.6 | 1.3 | 1.5 | 5 | 3.2 | 650 | 3450 | 0.54 | 57 | - | 4x14 | 5½ |
| 4GX - 3/4 HP | TBD | 230 | 0.75 | 0.55 | 1.5 | 4.4 | 4.8 | 5.2 | 3.6 | 1140 | 3450 | 0.47 | 48 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.5 | 2.2 | 2.4 | 5.5 | 3.6 | 1140 | 3450 | 0.47 | 48 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.5 | 1.8 | 1.9 | 5.5 | 3.6 | 840 | 3450 | 0.48 | 65 | - | 4x14 | 5½ |
| 4GX - 1 HP | TBD | 230 | 1 | 0.75 | 1.4 | 5.2 | 5.6 | 6.4 | 4.2 | 1260 | 3450 | 0.59 | 59 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.4 | 2.6 | 2.8 | 5.8 | 4.2 | 1260 | 3450 | 0.59 | 59 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.4 | 2.1 | 2.2 | 5.8 | 4.2 | 1200 | 3450 | 0.59 | 63 | - | 4x14 | 5½ |
| 4GX - 1 1/2 HP | 60152125 | 230 | 1.5 | 1.1 | 1.3 | 7.2 | 7.8 | 5.9 | 4.1 | 1875 | 3450 | 0.53 | 60 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.25 | 3.6 | 3.9 | 6.7 | 4.1 | 1875 | 3450 | 0.53 | 60 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.3 | 2.9 | 3.1 | 6.7 | 4.1 | 1720 | 3450 | 0.60 | 64 | - | 4x14 | 5½ |
| 4GX - 2 HP | 60177172 | 230 | 2 | 1.5 | 1.15 | 9.2 | 9.8 | 6.1 | 3.8 | 2230 | 3450 | 0.57 | 67 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.15 | 4.6 | 4.9 | 6.7 | 3.8 | 2230 | 3450 | 0.57 | 67 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.25 | 3.7 | 6.1 | 6.7 | 3.8 | 2160 | 3450 | 0.59 | 69 | - | 4x14 | 5½ |
| 4GX - 3 HP | TBD | 230 | 3 | 2.2 | 1.15 | 11.2 | 12 | 7.5 | 4.8 | 3160 | 3450 | 0.69 | 71 | - | 4x14 | 5½ |
| | TBD | 460 | | | 1.15 | 5.6 | 6 | 7.1 | 4.8 | 3160 | 3450 | 0.69 | 71 | - | 4x14 | 5½ |
| | TBD | 575 | | | 1.15 | 4.5 | 4.8 | 7.1 | 4.8 | 3050 | 3450 | 0.68 | 72 | - | 4x14 | 5½ |
| 4GX - 5 HP | TBD | 230 | 5 | 4 | 1.15 | 17.8 | 19.2 | 7.4 | 4 | 5230 | 3450 | 0.7 | 77 | - | 4x14 | 8¾ |
| | TBD | 460 | | | 1.15 | 8.9 | 9.6 | 7.4 | 4 | 5230 | 3450 | 0.7 | 77 | - | 4x14 | 8¾ |
| | TBD | 575 | | | 1.15 | 7.1 | 7.7 | 7.4 | 4.4 | 5300 | 3450 | 0.75 | 75 | - | 4x14 | 8¾ |
| 4GX - 7.5 HP | TBD | 230 | 7.5 | 5.5 | 1.15 | 24 | 26 | 7.5 | 3.8 | 7100 | 3450 | 0.71 | 78 | - | 4x14 | 8¾ |
| | TBD | 460 | | | 1.15 | 12 | 13 | 7.5 | 3.8 | 7100 | 3450 | 0.71 | 78 | - | 4x14 | 8¾ |
| | TBD | 575 | | | 1.15 | 9.6 | 10.4 | 7.5 | 3.8 | 7050 | 3450 | 0.74 | 79 | - | 4x14 | 8¾ |
| 4GX - 10 HP | TBD | 460 | 10 | 7.5 | 1.15 | 15.4 | 16.6 | 7.1 | 3.9 | 9300 | 3450 | 0.78 | 80 | - | 4x14 | 11½ |
| | TBD | 575 | | | 1.15 | 12.3 | 13.5 | 7.1 | 3.9 | 9100 | 3450 | 0.74 | 82 | - | 4x14 | 11½ |

P2: Rated output
V: Rated voltage
SF: Service factor
In: Rated current
In (SF): Service factor current

Is/In: Locked rotor current/Rated current
Cs/Cn: Locked rotor Torque/Rated Torque
P1: Power consumption
N: R.P.M
Cos φ: Power factor

η: Efficiency
C: Capacitor
∅: Cable section
LC: Cable length

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SUBMERSIBLE MOTOR 4'

DIMENSIONS AND WEIGHTS - SINGLE PHASE MOTORS

| MODEL | L LENGTH inch | WEIGHT lbs | AXIAL THRUST lbf | Q.TY x PALLET |
|------------------------|------------------|---------------|---------------------|------------------|
| 4GX - 1/2 HP - 0.37kW | 10.472 | 20.3 | 500 | N/A |
| 4GX - 3/4 HP - 0.55kW | 11.26 | 22.3 | 500 | N/A |
| 4GX - 1 HP - 0.75kW | 13.622 | 28.7 | 700 | N/A |
| 4GX - 1 1/2 HP - 1.1kW | 16.181 | 33.3 | 700 | N/A |
| 4GX - 2 HP - 1.5kW | 16.181 | 33.5 | 700 | N/A |
| 4GX - 3 HP - 2.2kW | 21.417 | 39.7 | 1500 | N/A |
| 4GX - 5 HP - 3.7kW | 26.929 | 60.3 | 1500 | N/A |

DIMENSIONS AND WEIGHTS - THREE PHASE MOTORS

| MODEL | L LENGTH inch | WEIGHT lbs | AXIAL THRUST lbf | Q.TY x PALLET |
|------------------------|------------------|---------------|---------------------|------------------|
| 4GX - 1/2 HP - 0.37kW | 9.291 | 17.2 | 500 | N/A |
| 4GX - 3/4 HP - 0.55kW | 10.472 | 20.3 | 500 | N/A |
| 4GX - 1 HP - 0.75kW | 11.26 | 22.3 | 500 | N/A |
| 4GX - 1 1/2 HP - 1.1kW | 13.622 | 26.7 | 700 | N/A |
| 4GX - 2 HP - 1.5kW | 15.394 | 31.3 | 700 | N/A |
| 4GX - 3 HP - 2.2kW | 19.843 | 33.3 | 1500 | N/A |
| 4GX - 5 HP - 3.7kW | 24.173 | 52.3 | 1500 | N/A |
| 4GX - 7.5 HP - 5.5kW | 26.929 | 60.3 | 1500 | N/A |
| 4GX - 10 HP - 7.5kW | 30.079 | 69.1 | 1500 | N/A |

| POS. | inch | POS. | inch | POS. | inch |
|------|-------|------|--------|------|--------|
| A | 0.610 | D | 1 1/2" | F | 3" |
| B | 0.591 | E | 1.465 | G | 3 3/8" |
| C | 7/8" | | | | |

