

# 4GG

## 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"



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### TECHNICAL DATA - SINGLE PHASE MOTORS

MODEL	3 WIRE	V [V]	P2		SF	In [A]	In (SF) [A]	Is/In	CsCn	P1 [W]	N [min <sup>-1</sup> ]	Cos φ	η %	C1 [μF]	C2 [μF]	Ø [AWG]	LC [ft]
	CODE		[HP]	[kW]													
4GG - 1/2 HP	60174199	115	0.5	0.37	1.6	10.0	12.6	4.0	3.2	800	3450	0.71	48	-	250-300	4x14	5½
4GG - 1/2 HP	60174200	230			1.6	5.5	6.8	4.2	3.9	800	3450	0.62	46	-	59-71	4x14	5½
4GG - 3/4 HP	60174201	230	0.75	0.55	1.5	7.4	8.6	4.6	3.6	1100	3450	0.65	53	-	86-103	4x14	5½
4GG - 1 HP	60174202	230	1	0.75	1.4	8.0	9.8	5.5	2.9	1350	3450	0.68	58	-	105-126	4x14	5½
4GG - 1 1/2 HP	60174203	230	1.5	1.1	1.3	10.0	12.0	6.0	1.9	1800	3450	0.81	64	10	105-126	4x14	5½
4GG - 2 HP	60174204	230	2	1.5	1.25	10.5	12.3	5.3	2.3	2200	3450	0.95	69	20	105-126	4x14	5½
4GG - 3 HP	60174205	230	3	2.2	1.15	14.3	16.2	5.5	2.1	3100	3450	0.97	72	45	208-250	4x14	5½
4GG - 5 HP	60174206	230	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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## SUBMERSIBLE MOTOR 4"

### 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 <sup>-1</sup> ]	Cos φ	η %	C [μF]	CABLE	
	CODE		[HP]	[kW]											∅ [AWG]	LC [ft]
4GG - 1/2 HP	60121248	230	0.5	0.37	1.6	3.2	3.8	4.4	3.2	870	3450	0.4	42	-	4x14	5½
	60140361	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
4GG - 3/4 HP	60121249	230	0.75	0.55	1.5	4.4	4.8	5.2	3.6	1140	3450	0.47	48	-	4x14	5½
	60121252	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
4GG - 1 HP	60121254	230	1	0.75	1.4	5.2	5.6	6.4	4.2	1260	3450	0.59	59	-	4x14	5½
	60121256	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
4GG - 1 1/2 HP	60140362	230	1.5	1.1	1.3	7.2	7.8	5.9	4.1	1875	3450	0.53	60	-	4x14	5½
	60121259	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
4GG - 2 HP	60140363	230	2	1.5	1.15	9.2	9.8	6.1	3.8	2230	3450	0.57	67	-	4x14	5½
	60121268	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
4GG - 3 HP	60140364	230	3	2.2	1.15	11.2	12	7.5	4.8	3160	3450	0.69	71	-	4x14	5½
	60140365	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
4GG - 5 HP	60140368	230	5	4	1.15	17.8	19.2	7.4	4	5230	3450	0.7	77	-	4x14	8¾
	60140369	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
4GG - 7.5 HP	60140370	230	7.5	5.5	1.15	24	26	7.5	3.8	7100	3450	0.71	78	-	4x14	8¾
	60140371	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
4GG - 10 HP	60140372	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  
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P1: Power consumption  
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### DIMENSIONS AND WEIGHTS - SINGLE PHASE MOTORS

MODEL	L LENGTH inch	WEIGHT lbs	AXIAL THRUST lbf	Q.TY x PALLET
4GG - 1/2 HP - 0.37kW	10.472	19.4	500	N/A
4GG - 3/4 HP - 0.55kW	11.26	21.4	500	N/A
4GG - 1 HP - 0.75kW	13.622	27.8	700	N/A
4GG - 1 1/2 HP - 1.1kW	16.181	32.5	700	N/A
4GG - 2 HP - 1.5kW	16.181	32.7	700	N/A
4GG - 3 HP - 2.2kW	21.417	45.2	1500	N/A
4GG - 5 HP - 3.7kW	26.929	59.8	1500	N/A

### DIMENSIONS AND WEIGHTS - THREE PHASE MOTORS

MODEL	L LENGTH inch	WEIGHT lbs	AXIAL THRUST lbf	Q.TY x PALLET
4GG - 1/2 HP - 0.37kW	9.291	16.3	500	N/A
4GG - 3/4 HP - 0.55kW	10.472	19.4	500	N/A
4GG - 1 HP - 0.75kW	11.26	21.4	500	N/A
4GG - 1 1/2 HP - 1.1kW	13.622	25.8	700	N/A
4GG - 2 HP - 1.5kW	15.394	30.5	700	N/A
4GG - 3 HP - 2.2kW	19.843	40.8	1500	N/A
4GG - 5 HP - 3.7kW	24.173	51.9	1500	N/A
4GG - 7.5 HP - 5.5kW	26.929	59.8	1500	N/A
4GG - 10 HP - 7.5kW	30.079	68.7	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"				

KIT CABLE CONNECTOR USA VERSION	DESCRIPTION	CODE
	KIT CABLE CONNECTOR - FT 5.58	60141967
	KIT CABLE CONNECTOR - FT 8.86	60141968
	KIT CABLE CONNECTOR - FT 9.84	60141969

