Equipment and solutions

JOVAL 4″ Water-Filled Motor

Product technical datasheet

NEMA-standard 4" submersible motors in AISI 304 stainless steel for wells, tanks, irrigation and pressurization. Available from 0.5 to 10 HP, rated for depths up to 300 m with IP68.

FT-P026 · Rev. 1



NEMA-standard 4″ submersible motors in AISI 304 stainless steel, suitable for wells, tanks, irrigation and pressurization systems. Available from 0.5 to 10 HP, with high durability, operation at depths up to 300 m and IP68 protection rating.

Applications

- Water supply in domestic installations
- Civil and industrial systems use
- Agricultural irrigation
- Clean water abstraction from deep boreholes, wells, dams and lakes.
- Water tanks and reservoirs
- Fire-fighting systems.
- Hydraulic pressure systems

Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note	Confirm the installation conditions, power supply and duty point before commissioning.
Complementary equipment	Contact JOVAL for compatible accessories and equipment.
Resources and support	Pump selection guide · JOVAL technical support
Contact	+351 253 490 740 · joval@joval.pt

Technical specifications

Type

4" encapsulated submersible motor

Standard

NEMA 4"

Voltage

Single-phase 220/230 V, 50 Hz; three-phase 380/415 V, 50 Hz

Material

AISI 304 stainless steel casing and bottom cover

Stator

Encapsulated pure copper, class H (200 °C)

Bearings

Oil-lubricated sliding bearings

Seal

High-precision mechanical seals

Connector

Removable plug-type cable

Insulation

Class H (200°C)

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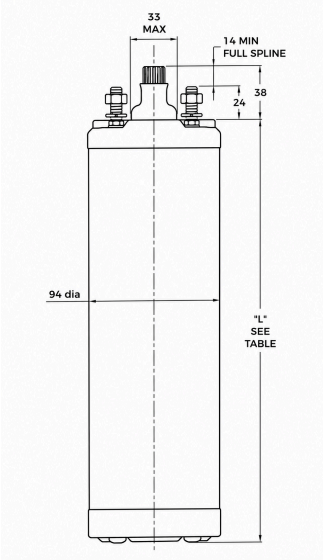
List of materials

Materials

Component	Material
Top cover	304 SS
Bottom cover	304 SS
Stator sleeve	304 SS
Shaft extension	431 SS
Fasteners	304 SS
Seal cover	Nitrile rubber
Seal	Nitrile rubber lip seal
Diaphragm	Nitrile rubber
Diaphragm cover	304 SS
Deflector	POM
Cable	XLPE
Cable encapsulation	Epoxy
Cable nut	304 SS

Single-phase 1x230 V · external capacitor

Dimensions and models



Code	Model	kW	HP	Voltage	Amperage	Capacitor (uF)	cosPhi	rpm	Length mm	Axial load (N)	Weight (kg)
2034701037	J4AG-S050	0,37	0,5	1x230	-	-	-	-	301	2000	9,7
2034701055	J4AG-S075	0,55	0,75	1x230	4,2	25	0,97	2850	326	2000	To be added soon
2034701075	J4AG-S100	0,75	1	1x230	5,6	30	0,95	2830	346	2000	11,7
2034701110	J4AG-S150	1,1	1,5	1x230	7,9	40	0,99	2830	396	2000	To be added soon
2034701150	J4AG-S200	1,5	2	1x230	10,3	50	0,98	2830	431	3000	14,6
2034701220	J4AG-S300	2,2	3	1x230	15	70	0,98	2830	511	3000	20,2

Single-phase 1x230 V · built-in capacitor

Dimensions and models

Code	Model	kW	HP	Voltage	Amperage	Capacitor (uF)	cosPhi	rpm	Length mm	Axial load (N)	Weight (kg)
2034702037	J4AG2F-S050	0,37	0,5	1x230	-	-	-	-	337	To be added soon	9,5
2034702055	J4AG2F-S075	0,55	0,75	1x230	4,2	25	0,97	2850	362	To be added soon	9,5
2034702075	J4AG2F-S100	0,75	1	1x230	5,6	30	0,95	2850	382	To be added soon	11,7
2034702110	J4AG2F-S150	1,1	1,5	1x230	7,9	40	0,99	2850	432	To be added soon	13,7
2034702150	J4AG2F-S200	1,5	2	1x230	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon

Three-phase 3x380/415 V

Dimensions and models

Code	Model	kW	HP	Voltage	Amperage	Capacitor (uF)	cosPhi	rpm	Length mm	Axial load (N)	Weight (kg)
2034703037	J4AG-T050	0,37	0,5	3x380/415	1,2	-	0,76	2850	301	3500	9,1
2034703055	J4AG-T075	0,55	0,75	3x380/415	1,7	-	0,76	2850	316	3500	9,9
2034703075	J4AG-T100	0,75	1	3x380/415	2,2	-	0,75	2850	346	3500	11,3
2034703110	J4AG-T150	1,1	1,5	3x380/415	3,2	-	0,75	2850	366	3500	12,1
2034703150	J4AG-T200	1,5	2	3x380/415	4,2	-	0,76	2850	396	3500	13,6
2034703220	J4AG-T300	2,2	3	3x380/415	6	-	0,77	2850	467	3500	16,8
2034703300	J4AG-T400	3	4	3x380/415	8	-	0,78	2850	512	6500	20,5
2034703306	J4AG-T400	3	4	3x380/415	8	-	0,78	2850	512	6500	20,5
2034703400	J4AG-T550	4	5,5	3x380/415	10,2	-	0,81	2850	591	6500	21,5
2034703550	J4AG-T750	5,5	7,5	3x380/415	14,2	-	0,79	2850	691	6500	26,3

Three-phase 3~230 V

Dimensions and models

Code	Model	kW	HP	Voltage	Amperage	Capacitor (uF)	cosPhi	rpm	Length mm	Axial load (N)	Weight (kg)
2034704110	J4AGDT-T150	1,1	1,5	3~230	To be added soon	-	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon
2034704150	J4AGDT-T200	1,5	2	3~230	To be added soon	-	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon
2034704220	J4AGDT-T300	2,2	3	3~230	To be added soon	-	To be added soon	To be added soon	To be added soon	To be added soon	To be added soon