



TECHNICAL DATASHEET

# 3" Oil-Filled Submersible Motor JOVAL

3" oil-filled submersible motors for narrow boreholes. Single-phase, built-in capacitor and three-phase versions.



3" (76 mm) oil-filled submersible motors for narrow boreholes. The JOVAL range includes standard single-phase (J3OL-S), single-phase with built-in capacitor (J3OL2F-S) and three-phase (J3OL-T) versions, with AISI 304 stainless steel construction, NEMA flange, IP68 protection, class F insulation, vertical or inclined installation, and 1500 N thrust load for installations up to 100 m depth.

## APPLICATIONS

- Water abstraction from 3" boreholes, reservoirs and water courses.
- Hydraulic pressure systems
- Agricultural irrigation
- Industrial and commercial applications

## TECHNICAL DATA

### TECHNICAL SPECIFICATIONS

Type	Oil-cooled submersible motor
Standard	IEC34-1 / CE
Material	AISI 304
Protection	IP 68
Insulation	Class F
Thrust load	1500 N
Max Temperature	35 °C
Min. cooling flow	8 cm/s
Water pH value	6.5 - 8.0
Starts/Hour	20
Max. depth	100 m
Mounting	Vertical / Inclined

## 3" JOVAL SUBMERSIBLE MOTORS OIL COOLED

Code	Model	kW	HP	Voltage	Amperage	Capacitor (uF)	cos $\phi$	rpm	L (mm)	Axial load (N)	Weight (kg)
2033210370	J3OL-S050	0,37	0,5	1x230	3,3	12,0	0,91	2.800,0	378,0	1.500,0	6,3
2033210550	J3OL-S075	0,55	0,75	1x230	4,8	15,0	0,91	2.800,0	398,0	1.500,0	6,7
2033210750	J3OL-S100	0,75	1,0	1x230	6,1	20,0	0,95	2.800,0	438,0	1.500,0	7,7
2033211100	J3OL-S150	1,1	1,5	1x230	8,0	30,0	0,99	2.800,0	478,0	1.500,0	8,4
2033220370	J3OL2F-S050	0,37	0,5	1x230	3,3	Built-in	0,91	2.800,0	378,0	1.500,0	6,3
2033220550	J3OL2F-S075	0,55	0,75	1x230	4,8	Built-in	0,91	2.800,0	398,0	1.500,0	6,7
2033220750	J3OL2F-S100	0,75	1,0	1x230	6,1	Built-in	0,95	2.800,0	438,0	1.500,0	7,7
2033221100	J3OL2F-S150	1,1	1,5	1x230	8,0	Built-in	0,99	2.800,0	478,0	1.500,0	8,4
2033230370	J3OL-T050	0,37	0,5	3x400	1,8	-	0,63	2.800,0	358,0	1.500,0	6,1
2033230550	J3OL-T075	0,55	0,75	3x400	2,1	-	0,65	2.800,0	378,0	1.500,0	6,5
2033230750	J3OL-T100	0,75	1,0	3x400	2,5	-	0,68	2.800,0	398,0	1.500,0	6,8
2033231100	J3OL-T150	1,1	1,5	3x400	3,5	-	0,70	2.800,0	438,0	1.500,0	7,8

## CHARACTERISTICS

- Complies with IEC34-1 and CE requirements.
- Monoblock asynchronous motor with squirrel-cage rotor.
- Outer shell, shaft and lower support in AISI 304 stainless steel.
- Upper bracket in electrophoretic cast iron or AISI 304 stainless steel.
- Angular-contact bearing designed for higher thrust load.
- Italian mechanical seal.
- Automatic pressure-balancing device in oil-resistant and waterproof butyl rubber.
- NEMA flange coupling and lacquer-coated wire according to NEMA MW37-C.

## LIST OF MATERIALS

- High-quality silicon steel lamination.
- Italian mechanical seal.
- 220°C class lacquer-coated winding wire.
- High-quality bearing sized for heavy axial load.

## PROPERTIES

- Thrust load: 1500 N.
- Protection degree: IP68.
- Insulation: Class F.
- Maximum ambient temperature: 35°C.
- Minimum cooling flow along the motor: 8 cm/s.
- Water pH value: 6.5 - 8.0.
- Maximum starts per hour: 20.
- Maximum submergence depth: 100 m.
- Oil lubricated.
- Operates in vertical or inclined position.
- Overload trip time under 10 s at 5x rated current.
- Special versions available on request.