



NPM4 Series 4" Rewindable Oil-Filled Motors



Franklin Electric

franklinwatersea.com

NPM4 Series 4" Motors

DESCRIPTION

COVERCO is a long recognized Italian manufacturer of high quality submersible motors with more than 50 years of experience in the industry. FRANKLIN ELECTRIC acquired COVERCO in year 2002, further strengthening COVERCO R&D capability, production capacity, sales and service networks, delivering expanded product portfolio around the globe.

The 4" submersible motors NPM4 Series is the optimized version of our field proven Coverco oil-filled motor.

FEATURES

- Coverco 4" electric motors ensure reliable operation in wells with diameters equal to or greater than 4"
- The axial and radial oil lubricated bearings allow for maintenance-free operation
- The pressure compensation inside the motor is ensured by a special membrane

ADVANTAGES

- Stator submerged in oil
- Sand protection and mechanical seal to allow for optimal operation even in the presence of sand in the well
- Excellent efficiency and low operating costs
- All motors are pre-filled with liquid and 100% tested

TECHNICAL DATA

- Ratings: 0.37 - 7.5 kW
- 4" NEMA flange
- Protection rating: IP68
- Number of starts per hour: max. 30
- Vertical and horizontal operation (prior authorization from our technical department)
- Standard rated voltage:
 - Single Phase: 220V - 230V 50Hz
 - Three Phase: 380V - 400V-415V 50Hz
- Voltage tolerance: $\pm 10\%$
- Insulation class: F
- Ambience temperature: 30°C
- Cable dimensions: 4x1.5mm²
- Cooling flow rate: min. 0.08 m/sec
- Water pH: 6.5-8
- Thrust Load: 1500 N, 2500 N, 4500 N

PERFORMANCE DATA SINGLE-PHASE 3-WIRE

220-230V AT 50HZ

Phase	Power		Voltage [V]	In (A)	RPM	Efficiency $\eta\%$			Power Factor $\cos\phi$			Capacitor μF
	kW	HP				50	75	100	50	75	100	
1	0.37	0.50	220	3.3	2835	37	48	55	0.88	0.94	0.97	20
			230	3.4	2850	34	45	53	0.82	0.89	0.94	
	0.55	0.75	220	4.6	2810	41	52	59	0.87	0.94	0.97	25
			230	4.8	2820	37	48	56	0.81	0.89	0.95	
	0.75	1.0	220	5.8	2810	46	57	62	0.81	0.90	0.96	30
			230	6.1	2825	41	53	60	0.74	0.84	0.91	
	1.1	1.5	220	8.5	2805	48	59	65	0.77	0.88	0.95	35
			230	9.0	2815	42	54	61	0.70	0.81	0.91	
	1.5	2.0	220	10.9	2800	54	63	66	0.81	0.91	0.96	40
			230	11.0	2820	49	60	66	0.71	0.83	0.92	
	2.2	3.0	220	15.5	2810	54	65	69	0.82	0.92	0.97	70
			230	16.2	2815	48	60	66	0.75	0.86	0.94	
	3.7	5.0	220	21	2901	67	79	83	0.91	0.96	0.98	130+178
			230	21.1	2910	62	74	80	0.85	0.93	0.97	

PERFORMANCE DATA THREE-PHASE

380V-400-415V AT 50 HZ

Phase	Power		Voltage [V]	In (A)	RPM	Efficiency $\eta\%$			Power Factor $\cos\phi$		
	kW	HP				50	75	100	50	75	100
3	1.5	2.0	380	3.8	2825	70	74	74	0.63	0.76	0.83
			400	3.9	2845	67	72	74	0.55	0.68	0.77
			415	4.1	2860	64	71	73	0.48	0.62	0.72
	2.2	3.0	380	5.7	2810	73	76	76	0.55	0.70	0.80
			400	6.1	2830	69	74	75	0.48	0.62	0.73
			415	6.4	2845	66	72	75	0.43	0.56	0.67
	3.0	4.0	380	7.5	2815	74	77	77	0.58	0.72	0.81
			400	7.9	2835	70	75	76	0.50	0.64	0.74
			415	8.2	2850	67	73	75	0.44	0.58	0.69
	4.0	5.5	380	10.2	2820	75	78	78	0.57	0.72	0.81
			400	10.8	2840	71	75	77	0.49	0.63	0.74
			415	11.3	2855	68	74	76	0.44	0.57	0.68
	5.5	7.5	380	13.2	2830	78	80	79	0.62	0.76	0.84
			400	13.5	2850	76	79	79	0.54	0.68	0.78
			415	13.8	2865	74	78	79	0.48	0.62	0.74
	7.5	10	380	18.3	2850	76	80	79	0.56	0.71	0.81
			400	19.4	2865	72	77	78	0.48	0.63	0.73
			415	20.3	2875	69	75	77	0.43	0.57	0.68

Ordering Information

3-WIRE SINGLE PHASE MODELS

kW	HP	Model No.	Voltage	Hz	S.F.	Lead Type	Thrust Rating (N)
0.37	0.5	2752030252GS	220V - 230V	50	1.0	Removable	1500
0.55	0.75	2752130252GS	220V - 230V	50	1.0	Removable	1500
0.75	1	2752230252GS	220V - 230V	50	1.0	Removable	1500
1.1	1.5	2752330252GS	220V - 230V	50	1.0	Removable	1500
1.5	2	2752430352GS	220V - 230V	50	1.0	Removable	2500
2.2	3	2752530353GS	220V - 230V	50	1.0	Removable	2500
3.7	5	2756270453GS	220V - 230V	50	1.0	Removable	4500

THREE-PHASE MODELS

kW	HP	Model No.	Voltage	Hz	S.F.	Lead Type	Thrust Rating (N)
1.5	2	2742460352GS	380V-400V-415V	50	1.0	Removable	2500
2.2	3	2742560353GS	380V-400V-415V	50	1.0	Removable	2500
3	4	2742660453GS	380V-400V-415V	50	1.0	Removable	4500
4	5.5	2742860453GS	380V-400V-415V	50	1.0	Removable	4500
5.5	7.5	2742960453GS	380V-400V-415V	50	1.0	Removable	4500
7.5	10	2743060453GS	380V-400V-415V	50	1.0	Removable	4500

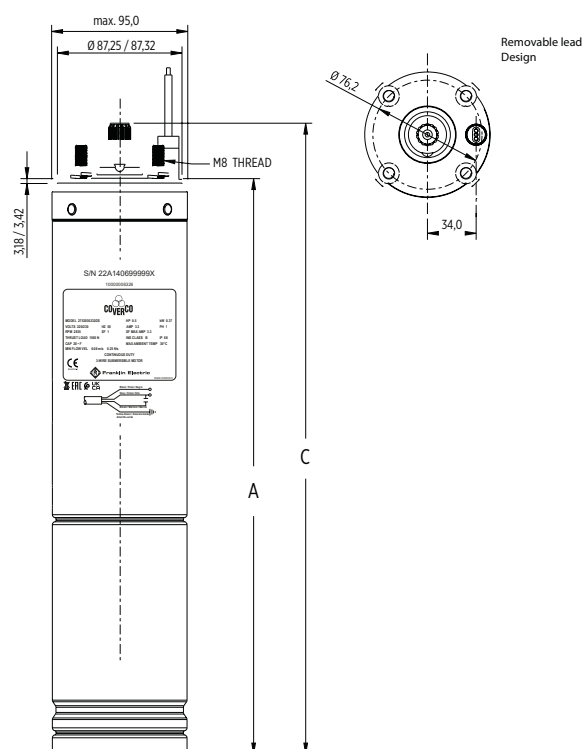
DIMENSIONAL DATA AND DRAWING

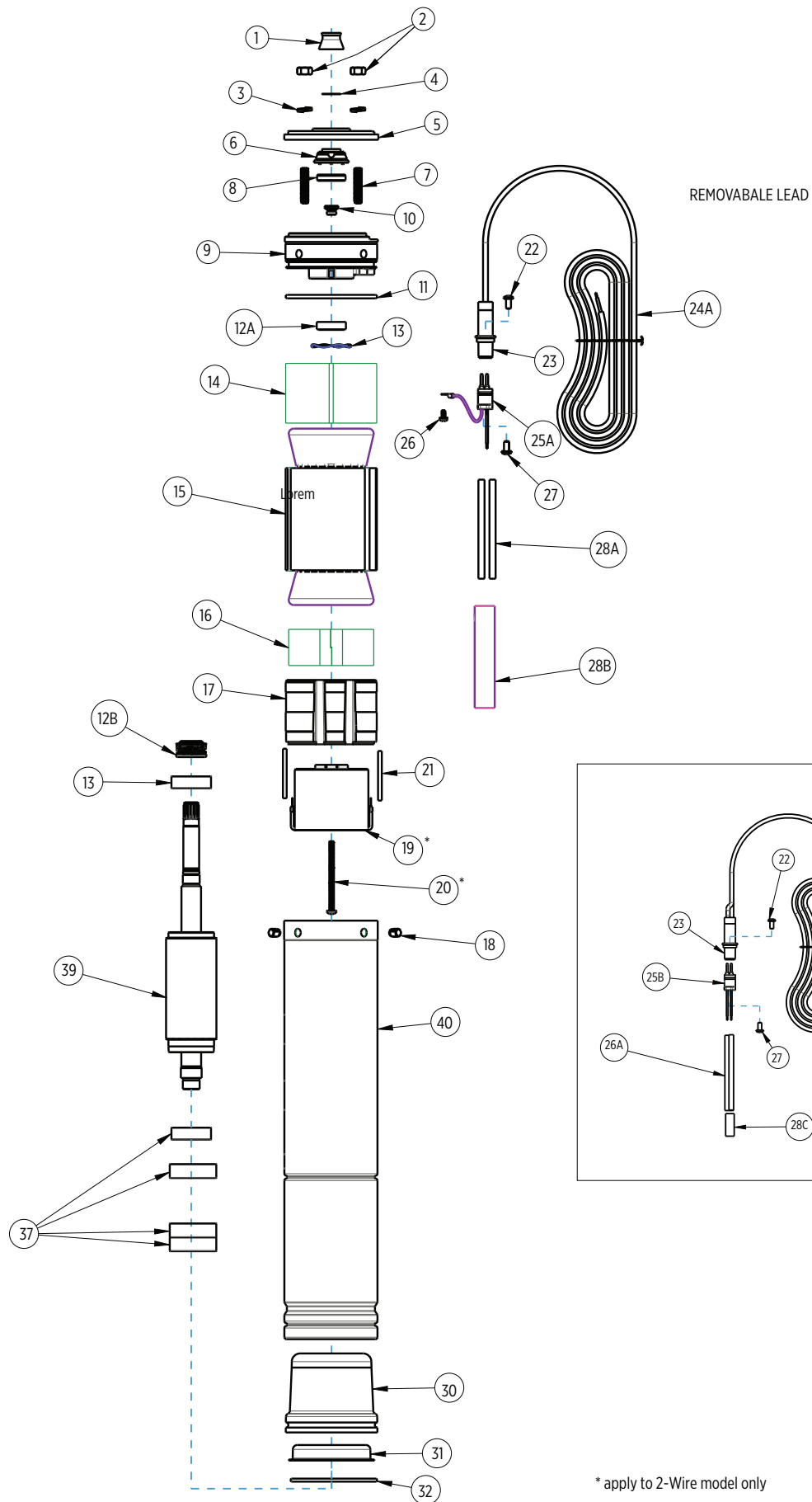
SINGLE-PHASE MOTORS 50 HZ

4" 1-3-wire Motors 50Hz					
P _N [kW]	P _N [HP]	A [mm]	C [mm]	Weight [kg]	Oil [kg]
0.37	0.5	327	365	7.1	0.47
0.55	0.75	336	374	7.4	0.47
0.75	1	357	395	8.3	0.49
1.1	1.5	380	419	9.5	0.5
1.5	2	426	464	11.6	0.53
2.2	3	475	513	14	0.57
3.7	5	649	687	22.1	0.69

THREE-PHASE MOTORS 50 HZ

4" 3- Motors 50Hz					
P _N [kW]	P _N [HP]	A [mm]	C [mm]	Weight [kg]	Oil [kg]
1.5	2	388	426	9.8	0.51
2.2	3	426	464	11.6	0.53
3	4	475	513	14	0.57
4	5.5	540	579	17.1	0.61
5.5	7.5	635	673	22.6	0.68
7.5	10	744	782	28.1	0.75





MATERIAL OF CONSTRUCTION

#	Part Description	Qty	Material
1	Sand Slinger	1	NBR
2	Nut	4	304SS
3	Washer	4	304SS
4	Washer	1	304SS
5	Top End Bell Cover	1	304SS
6	Sand Slinger Base	1	Polyacetal (POM)
7	Stud	4	304SS
8	Lip Seal	1	NBR
9	Top End Bell	1	E-Coated Cast-Iron
10	Oil Fill Plug	1	Brass
11	O-Ring for Top End Bell	1	NBR
12	Mechanical Shaft Seal	1	NBR-Carbon and cermaic face seal
13	Wave Spring	1	Hi Carbon Steel
14	Top Insulation Roll-Up	1	Mylar A
15	Wound Stator	1	Copper wire/Steel
16	Bottom Insulation Roll-Up	1	Mylar A
17	Bottom End Bell	1	Aluminum
18	Lock Pins	4	304SS
19*	Capacitor	1	PBT or PBO case, epoxy or urethane fill
20*	Capacitor Screw	1	Zinc Plated Steel
21	Shrink tube	2	Polyolefin
22	Screw for Lead Clamp	1	304SS
23	Rubber Bushing	1	Neoprene
24	Lead Material	1	VPE/EPR/Cu
25	Internal Connector	1	PA/Cu/NBR/
26	SEMS Grounding Screw	1	Zinc Plated Steel
27	Screw	1	304SS
28	Lead Sleeveing	1	Glass/Silicone
30	Pressure Equalization Diaphram	1	NBR
31	Diaphrbm Retainer/Cover	1	304SS
32	Retaining Ring	1	304SS
37	Connector Ring Terminal	1	Copper
39	Rotor with Shaft	1	Steel/304SS/AL/CU
40	Motor Outer Shell	1	304SS
	Filling Solution - Non-Toxic Oil		Food Contact Grade Mineral Oil

* apply to 2-Wire model only

4CB Control Box

Control Box that provides protection to Coverco single phase oil filled submersible motor

Technical Data

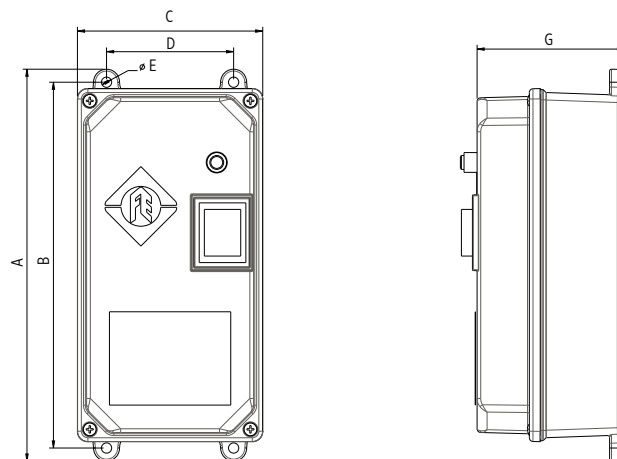
- Main internal components: Switch, Thermal Relay and Permanent Capacitor
- IP-53 thermoplastic external box
- Power: 0.5HP - 3.0HP
- Voltage: 220V Single Phase



Ordering Information

Model	Part Number	Description	Power HP	Weight Kg
4CB	98304C5001	4CB 0.5HP 220V 50HZ 20uF	0.5	0.52
	98304C5002	4CB 0.75HP 220V 50HZ 25uF	0.75	0.55
	98304C5003	4CB 1.0HP 220V 50HZ 30uF	1	0.59
	98304C5004	4CB 1.5HP 220V 50HZ 35uF	1.5	0.60
	98304C5005	4CB 2.0HP 220V 50HZ 40uF	2	0.67
	98304C5006	4CB 3.0HP 220V 50HZ 70uF	3	0.67

Dimension



Dimension (mm)						
Model	A	B	C	D	E	G
4CB	219	207	110	76	5.5	72



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Franklin Electric (SEA) Pte Ltd

ASEAN|Bangladesh|Pakistan|Sri Lanka

17 Changi Business Park Central 1 | #06-05 Honeywell Building | Singapore 486073
Phone. +65 6789 6865 - Fax. +65 6789 0155



franklinwatersea.com



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115.4 ed 3/2025