



ITA

MOTORI 4"

I motori sommersi 4" serie NBS4, ultimi nati in casa COVERCO, sono riavvolgibili, come i loro predecessori e possono lavorare in pozzi con acqua non superiore ai 35° C con un PH compreso tra 6,5 e 8,0. Il liquido di riempimento è un fluido dielettrico detto olio bianco approvato dall'ente americano FDA e da altri istituti farmacologici in tutto il mondo. Le dimensioni di accoppiamento e la flangia sono conformi alla normativa NEMA in quanto questi motori sommersi sono espressamente ideati per funzionare in accoppiamento a pompe sommerse (in pozzi profondi) con le stesse dimensioni di accoppiamento. L'alimentazione può essere monofase o trifase. La linea monofase parte da 0,37 kW (0,5 HP) fino a 4,0 kW (5,5 HP), mentre la linea trifase va dai 0,37 kW (HP) fino ai 7,5 kW (10 HP). I motori sommersi vengono impiegati di solito in installazioni verticali. Tuttavia, i motori possono essere installati orizzontalmente, sempre e comunque dopo previa conferma del nostro ufficio tecnico e la valutazione globale dell'applicazione richiesta. I motori COVERCO possono essere installati in pozzi da 4" con una profondità massima di 250 metri. La loro riavvolgibilità è assicurata da una progettazione che facilita lo smontaggio e il riassettaggio dei motori stessi.

APPLICAZIONI

I motori elettrici Coverco da 4" garantiscono un funzionamento affidabile in pozzi con diametro uguale o maggiore a 4". I cuscinetti assiali e radiali lubrificati dall'olio consentono un'operatività senza interventi di manutenzione. La compensazione di pressione all'interno del motore è assicurata da una membrana speciale.

VANTAGGI

- statore in olio
- materiale del cavo conforme alle norme per acqua potabile (con relativo controllo)
- protezione antisabbia e tenuta meccanica per consentire un ottimo funzionamento in presenza di sabbia nel pozzo
- ottima efficienza con bassi costi operativi
- tutti i motori sono pre-riempiti di liquido e testati al 100%

MOTORI STANDARD

- 0,37 - 7,5 kW
- Flangia NEMA 4"
- Protezione: IP68
- Numero di avvii all'ora: max. 30
- Funzionamento in verticale ed orizzontale (solo se approvato).
- Tensione nominale: 210-220-230/50 Hz ;380-415V/50Hz, 460V/60Hz
- Tolleranza voltaggio: $\pm 10\%$
- Protezione motore: selezione relè termici secondo norme EN 60947-4-1, classe di scatto 10 o 10A, tempo di scatto < 10 s. a 5 x IN
- Isolamento: classe F
- Temperatura ambiente: 30°C
- Dimensioni del cavo: 4 x 1,5 mm²
- Flusso di raffreddamento min. 8 cm/sec.
- pH acqua: 6,5-8
- Carico assiale: 1500 N, 2500 N, 4500 N(K), 6500 N(K)

LEGENDA

LRC	Locked Rotor Current (A)
RIA	Rated Input Amps
LRT	Locked Rotor Torque
RLC	Rated Load Current (A)
BDT	Breakdown Torque
FLT	Full Load Torque
S.F.	Service Factor

PERFORMANCE DATA

SINGLE-PHASE PERFORMANCE DATA V 210-220-230 Hz 50

Power	Hz	Volt- age	RIA	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ			Capacitor cosφ	
									50	75	100	50	75	100		μF
KW	HP	V			Min ⁻¹	Nm										
0.37	0.50	50	210	3.4	3.3	2810	1.26	0.87	2.28	38	48	54	0.93	0.96	0.97	20
			220	3.4	3.4	2830	1.25	0.94	2.54	37	47	53	0.86	0.91	0.95	20
			230	3.5	3.4	2845	1.24	1.05	2.83	34	44	51	0.79	0.85	0.91	20
0.55	0.75	50	210	4.6	3.4	2810	1.87	0.71	2.11	48	58	60	0.92	0.96	0.98	25
			220	4.5	3.5	2830	1.85	0.79	2.37	46	56	59	0.80	0.87	0.95	25
			230	4.7	3.5	2845	1.85	0.88	2.63	43	53	57	0.71	0.81	0.91	25
0.75	1.0	50	210	5.7	3.2	2815	2.54	0.74	2.03	47	58	64	0.94	0.96	0.98	36
			220	5.7	3.6	2830	2.53	0.82	2.20	45	56	63	0.86	0.92	0.96	36
			230	5.8	3.5	2845	2.52	0.88	2.48	42	52	61	0.78	0.86	0.92	36
1.1	1.5	50	210	8.3	3.1	2790	3.79	0.63	1.81	52	61	65	0.90	0.95	0.97	40
			220	8.3	3.3	2810	3.74	0.68	2.00	51	61	64	0.79	0.88	0.95	40
			230	8.6	3.2	2830	3.70	0.75	2.22	47	58	62	0.70	0.81	0.90	40
1.5	2.0	50	210	10.7	3.1	2780	5.16	0.59	2.12	56	65	68	0.94	0.97	0.98	50
			220	10.5	3.3	2810	5.10	0.63	2.35	53	63	67	0.86	0.94	0.97	50
			230	10.7	3.4	2820	5.06	0.70	2.58	50	60	65	0.76	0.86	0.93	50
2.2	3.0	50	210	15.0	4.5	2790	7.52	0.60	2.09	60	68	72	0.96	0.98	0.99	76
			220	14.8	5.5	2810	7.49	0.67	2.20	57	67	71	0.91	0.96	0.98	76
			230	14.5	5.5	2830	7.42	0.73	2.33	54	64	70	0.82	0.91	0.96	76
3.0	4.0	50	210	19.5	4.9	2910	9.84	1.13	2.22	62	71	75	0.94	0.97	0.98	100+178
			220	19.2	5.1	2920	9.82	1.24	2.43	61	70	74	0.85	0.93	0.96	100+178
			230	19.7	5.1	2930	9.78	1.37	2.68	56	66	73	0.73	0.84	0.92	100+178
3.7	5.0	50	210	23.4	3.9	2900	12.2	0.85	1.97	63	72	77	0.93	0.97	0.98	130+178
			220	23.1	4.2	2910	12.1	0.91	2.35	60	70	76	0.83	0.91	0.97	130+178
			230	23.9	4.3	2920	12.1	1.01	2.47	53	65	73	0.72	0.84	0.93	130+178
4.0	5.5	50	380	25.1	4.1	2890	13.2	0.83	1.83	66	74	77	0.93	0.97	0.98	130+178
			220	24.6	4.2	2900	13.1	0.92	2.17	62	72	76	0.85	0.93	0.97	130+178
			230	25.1	4.3	2910	13.1	0.99	2.28	55	67	74	0.75	0.87	0.94	130+178

SINGLE-PHASE PERFORMANCE DATA V 230-240 Hz 50

Power		Hz	Voltage	RIA	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ			Capacitor
KW	HP		V			Min ⁻¹	Nm			50	75	100	50	75	100	μF
0.37	0.50	50	230	3.0	2.9	2800	1.26	0.90	2.3	40	49	56	0.91	0.95	0.97	20
			240	3.0	3.0	2820	1.26	0.97	2.4	37	47	55	0.86	0.91	0.95	
0.55	0.75	50	230	4.0	3.1	2815	1.87	0.67	2.1	45	55	60	0.92	0.95	0.97	25
			240	4.0	3.2	2835	1.86	0.75	2.3	43	52	59	0.86	0.91	0.95	
0.75	1.0	50	230	5.2	2.4	2815	2.54	0.71	2.1	48	58	64	0.92	0.96	0.97	36
			240	5.3	2.4	2830	2.53	0.78	2.3	46	57	63	0.85	0.91	0.95	
1.1	1.5	50	230	7.5	3.1	2800	3.75	0.63	2.0	58	68	72	0.75	0.85	0.95	40
			240	7.7	3.0	2820	3.72	0.69	2.1	53	64	70	0.69	0.80	0.91	
1.5	2.0	50	230	9.5	3.3	2790	5.13	0.60	2.8	59	68	71	0.89	0.95	0.97	50
			240	9.4	3.2	2810	5.10	0.65	2.9	55	65	70	0.81	0.90	0.95	
2.2	3.0	50	230	13.5	3.6	2790	7.55	0.60	2.2	62	70	73	0.95	0.98	0.98	76
			240	13.2	3.6	2810	7.48	0.65	2.5	59	68	72	0.90	0.96	0.97	
3.0	5.0	50	230	18.5	5.0	2910	9.80	1.10	2.4	60	69	72	0.84	0.92	0.97	100+(156-200)
			240	18.8	5.1	2920	9.75	1.20	2.6	55	64	70	0.72	0.84	0.95	
3.7	5.0	50	230	21.5	4.2	2900	12.2	0.84	2.2	64	73	79	0.91	0.96	0.97	130+(156-200)
			240	21.0	4.3	2910	12.1	0.91	2.4	62	72	77	0.82	0.91	0.96	
4.0	5.0	50	230	22.6	4.2	2890	13.2	0.84	1.9	66	75	79	0.93	0.97	0.99	130+(156-200)
			240	22.2	4.3	2900	13.2	0.91	2.2	52	63	71	0.86	0.92	0.96	

SINGLE-PHASE PERFORMANCE DATA V 220-230 Hz 60

Power		Hz	Voltage	RIA	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ			Capacitor	S.F. Amp
KW	HP		V			Min ⁻¹	Nm			50	75	100	50	75	100	μF	
0.37	0.50	60	220	3.7	3.9	3460	1.01	1.19	3.4	32	42	48	0.89	0.93	0.95	20	4.7
			230	3.9	3.8	3470	1.02	1.34	3.6	30	40	46	0.82	0.87	0.91	20	4.7
0.55	0.75	60	220	5.0	3.9	3450	1.52	1.35	3.2	34	44	52	0.97	0.98	0.99	31.5	6.3
			230	5.1	4.0	3460	1.51	1.51	3.4	32	42	50	0.92	0.95	0.97	31.5	6.2
0.75	1.0	60	220	6.2	4.1	3460	2.06	0.96	2.8	41	51	58	0.90	0.94	0.97	31.5	7.6
			230	6.4	4.0	3470	2.06	1.06	3.2	38	48	55	0.81	0.87	0.93	31.5	7.6
1.1	1.5	60	220	8.1	3.9	3440	3.05	0.77	2.4	49	59	65	0.88	0.93	0.96	40	9.7
			230	8.3	4.0	3460	3.04	0.87	2.7	43	54	63	0.79	0.86	0.93	40	9.6
1.5	2.0	60	220	10.5	3.9	3420	4.20	0.81	3.6	51	61	67	0.96	0.98	0.99	50	12.5
			230	10.4	4.0	3440	4.20	0.90	4.3	48	58	66	0.90	0.95	0.98	50	12.3
2.2	3.0	60	220	14.9	4.5	3440	6.10	0.74	3.7	55	64	70	0.93	0.96	0.98	76	16.5
			230	15.0	4.5	3460	6.10	0.82	3.7	51	62	68	0.84	0.91	0.95	76	16.4
3.7	5.0	60	220	30.8	3.1	3480	10.1	1.12	2.1	41	52	60	0.85	0.88	0.92	150+	32.9
			230	30.3	3.3	3460	10.0	1.24	2.1	40	50	58	0.85	0.88	0.91	(156-200)	32.4
4.0	5.5	60	220	26.0	4.9	3530	10.8	1.11	2.3	57	68	73	0.94	0.95	0.96	150+	29.0
			230	25.5	5.1	3540	10.8	1.22	2.7	54	65	72	0.94	0.95	0.96	(156-200)	28.5

THREE-PHASE PERFORMANCE DATA V 380-400-415 Hz 50

Rating		Hz	Volt- age	RIA(*)	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ		
KW	HP		V			Min ⁻¹	Nm			50	75	100	50	75	100
0.37	0.50	50	380	1.35	3.5	2790	1.26	1.7	2.5	40	47	51	0.69	0.77	0.83
			400	1.35	3.7	2820	1.25	1.9	2.7	39	47	51	0.64	0.73	0.79
			415	1.35	3.9	2835	1.25	2.0	3.1	38	46	50	0.61	0.70	0.76
0.55	0.75	50	380	1.85	3.6	2800	1.87	1.8	2.3	47	53	56	0.65	0.75	0.83
			400	1.85	3.8	2830	1.85	2.1	2.5	46	53	56	0.60	0.70	0.78
			415	1.90	3.9	2850	1.84	2.3	2.8	43	52	56	0.55	0.66	0.75
0.75	1.0	50	380	2.20	4.1	2810	2.55	2.3	2.3	54	61	63	0.64	0.75	0.82
			400	2.20	4.2	2835	2.52	2.5	2.5	54	61	63	0.58	0.70	0.78
			415	2.25	4.3	2850	2.51	2.9	2.8	52	60	63	0.54	0.65	0.74
1.1	1.5	50	380	3.00	4.6	2800	3.76	2.6	3.5	63	68	69	0.64	0.76	0.83
			400	3.00	4.7	2830	3.73	2.8	3.8	60	66	68	0.60	0.71	0.79
			415	3.00	4.7	2845	3.71	3.0	3.9	59	65	68	0.55	0.67	0.75
1.5	2.0	50	380	4.00	4.4	2800	5.10	2.6	3.2	63	69	70	0.60	0.73	0.82
			400	4.10	4.5	2825	5.07	2.9	3.5	61	67	69	0.53	0.66	0.76
			415	4.30	4.5	2840	5.05	3.1	3.8	59	66	69	0.48	0.61	0.71
2.2	3.0	50	380	5.50	4.9	2800	7.51	2.4	2.9	70	73	74	0.63	0.76	0.83
			400	5.60	5.0	2825	7.44	2.8	3.1	68	73	74	0.56	0.69	0.78
			415	5.70	5.1	2840	7.39	3.0	3.3	66	72	73	0.50	0.64	0.73
3.0	4.0	50	380	7.40	4.5	2780	10.30	2.5	2.8	73	74	75	0.59	0.73	0.83
			400	7.50	4.6	2810	10.18	2.7	3.2	69	73	74	0.51	0.66	0.78
			415	7.90	4.8	2825	10.16	3.0	3.4	66	72	73	0.47	0.60	0.72
4.0	5.5	50	380	9.60	5.1	2800	13.62	2.8	2.9	77	79	79	0.57	0.72	0.82
			400	9.80	5.1	2820	13.53	3.1	3.1	74	78	78	0.50	0.64	0.77
			415	10.3	5.1	2835	13.48	3.4	3.2	70	76	77	0.45	0.59	0.71
5.5	7.5	50	380	12.6	5.2	2825	18.60	2.5	2.7	79	80	80	0.63	0.77	0.86
			400	12.5	5.4	2845	18.44	2.7	2.8	77	80	80	0.55	0.71	0.82
			415	12.8	5.4	2860	18.37	2.9	3.0	74	79	79	0.50	0.65	0.78
7.5	10.0	50	380	16.9	5.1	2810	25.50	2.4	2.5	80	80	80	0.65	0.79	0.87
			400	16.9	5.3	2835	25.26	2.6	2.6	78	80	80	0.57	0.72	0.83
			415	17.3	5.3	2850	25.05	2.7	2.7	75	79	79	0.51	0.66	0.77

(*) = 220-240V Version: Rated Input Amps x 1.73

THREE-PHASE PERFORMANCE DATA V 380 Hz 60

Power		Hz	Volt- age	RIA	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ			S.F. Amp
KW	HP		V			Min ⁻¹	Nm			50	75	100	50	75	100	
0.37	0.50	60	380	1.6	5.6	3500	1.01	4.3	4.7	36	45	50	0.57	0.64	0.70	2.0
0.55	0.75	60	380	2.1	6.0	3500	1.52	4.1	4.6	44	53	59	0.57	0.65	0.72	2.5
0.75	1.0	60	380	2.5	5.1	3480	2.06	3.2	3.6	51	59	63	0.57	0.67	0.75	3.0
1.1	1.5	60	380	3.2	5.8	3470	3.03	3.3	3.2	59	66	69	0.58	0.69	0.76	3.8
1.5	2.0	60	380	4.4	5.3	3470	4.10	3.1	5.0	63	70	71	0.52	0.64	0.71	5.0
2.2	3.0	60	380	5.9	6.0	3470	6.06	3.4	4.1	71	76	77	0.61	0.64	0.74	6.4
3.0	4.0	60	380	8.2	6.0	3470	8.24	3.5	4.3	70	75	77	0.50	0.63	0.73	8.7
4.0	5.5	60	380	10.2	6.3	3450	11.0	3.5	4.0	74	78	80	0.54	0.67	0.76	11.4
5.5	7.5	60	380	13.0	6.5	3490	15.0	3.1	3.8	78	81	83	0.55	0.69	0.78	14.5
7.5	10	60	380	17.8	6.5	3480	20.6	2.9	3.3	77	80	81	0.57	0.71	0.80	19.4

THREE-PHASE PERFORMANCE DATA V 220-230 Hz 60

Rating		Hz	Voltage	RIA	LRC / RLC	R.p.m.	FLT	LRT / FLT	BDT / FLT	Efficiency n%			Power factor cosφ			S.F. Amp
KW	HP		V			Min ⁻¹	Nm			50	75	100	50	75	100	
0.37	0.50	60	220	2.6	5.1	3470	1.01	3.5	4.0	36	44	49	0.64	0.71	0.77	3.3
			230	2.6	5.2	3490	1.01	3.7	4.1	36	44	49	0.61	0.63	0.73	3.3
0.55	0.75	60	220	3.4	5.4	3480	1.51	3.3	3.9	44	52	57	0.62	0.71	0.77	4.2
			230	3.4	5.3	3500	1.50	3.4	4.1	43	51	56	0.58	0.67	0.73	4.1
0.75	1.0	60	220	4.1	5.0	3460	2.08	2.2	2.9	50	58	61	0.64	0.74	0.80	5.0
			230	4.1	5.1	3480	2.06	2.3	3.3	49	57	61	0.60	0.70	0.77	4.9
1.1	1.5	60	220	5.2	5.4	3450	3.05	2.9	5.8	62	67	70	0.62	0.73	0.80	6.3
			230	5.2	5.6	3470	3.05	3.0	5.8	60	65	70	0.59	0.70	0.77	6.1
1.5	2.0	60	220	6.9	5.3	3460	4.13	2.6	4.3	67	72	74	0.57	0.69	0.77	8.1
			230	7.0	5.9	3470	4.14	3.2	4.6	66	71	74	0.50	0.64	0.74	8.1
2.2	3.0	60	220	9.5	5.4	3440	6.10	3.3	3.7	77	79	80	0.54	0.68	0.77	10.6
			230	9.8	5.4	3460	6.20	3.6	4.2	74	78	79	0.47	0.62	0.73	10.6
3.0	4.0	60	220	14.2	6.0	3470	8.25	3.4	4.3	70	76	77	0.50	0.63	0.73	15.1
			230	15.1	6.2	3490	8.25	3.6	4.5	69	75	76	0.47	0.60	0.66	15.7
4.0	5.5	60	220	16.8	6.4	3450	11.1	3.1	3.4	76	79	80	0.58	0.71	0.79	18.5
			230	17.0	6.3	3460	11.0	3.3	3.6	73	78	80	0.51	0.64	0.75	18.6
5.5	7.5	60	220	21.0	6.4	3470	15.1	2.6	3.0	78	81	82	0.63	0.76	0.84	23.8
			230	21.1	6.4	3485	15.1	2.7	3.2	78	81	82	0.56	0.70	0.79	23.6
7.5	10	60	220	29.0	5.9	3440	20.8	2.6	2.6	78	79	80	0.64	0.78	0.85	32.6
			230	29.0	6.0	3460	20.7	2.8	2.8	76	79	80	0.58	0.72	0.81	32.0

RESISTANCE VALUES

SINGLE-PHASE RESISTANCE VALUES \pm 5% (25 °C) / V 210-220-230 Hz 50

TYPE	kW	Ω (Main)	Ω (Start)	Watt 220V	Amps 220V
NBS4 050 M	0.37	6.50	14.8	400	2.5
NBS4 075 M	0.55	4.50	9.20	480	3.0
NBS4 100 M	0.75	3.55	7.60	550	3.8
NBS4 150 M	1.10	2.55	6.90	770	5.8
NBS4 200 M	1.50	2.00	4.90	990	6.6
NBS4 300 M	2.20	1.25	3.00	1100	7.8
NBS4K 400 M	3.00	0.90	2.00	1500	10.6
NBS4K 500 M	3.70	0.76	1.85	1800	14.5
NBS4K 550 M	4.00	0.76	1.85	1800	14.5

SINGLE-PHASE RESISTANCE VALUES \pm 5% (25 °C) / V 230-240 Hz 50

TYPE	kW	Ω (Main)	Ω (Start)	Watt 220V	Amps 220V
NBS4 050 M	0.37	7.90	12.5	370	2.1
NBS4 075 M	0.55	4.10	6.30	400	2.7
NBS4 100 M	0.75	5.50	7.30	550	3.6
NBS4 150 M	1.10	3.00	5.50	720	6.2
NBS4 200 M	1.50	2.30	4.00	850	6.5
NBS4 300 M	2.20	1.50	2.45	1000	7.0
NBS4K 400 M	3.00	1.00	1.80	1200	10.0
NBS4K 500 M	3.70	0.90	1.45	1450	13.5
NBS4K 550 M	4.00	0.90	1.45	1450	13.5

THREE-PHASE RESISTANCE VALUES \pm 5% (25 °C) V 380-415 Hz 50

TYPE	kW	Ω	Input Power Watt 400V	No Load Amps 400V
NBS4 050 T	0.37	54	320	1.05
NBS4 075 T	0.55	40	360	1.40
NBS4 100 T	0.75	26.4	320	1.65
NBS4 150 T	1.10	16.1	340	2.05
NBS4 200 T	1.50	12.3	480	3.25
NBS4 300 T	2.20	7.7	590	3.90
NBS4 400 T	3.00	5.5	780	5.90
NBS4 550 T	4.00	3.8	990	7.70
NBS4 750 T	5.50	3.0	1000	8.55
NBS4K 1000 T	7.50	2.2	1300	11.3

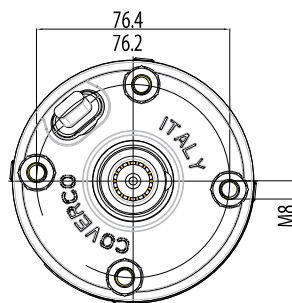
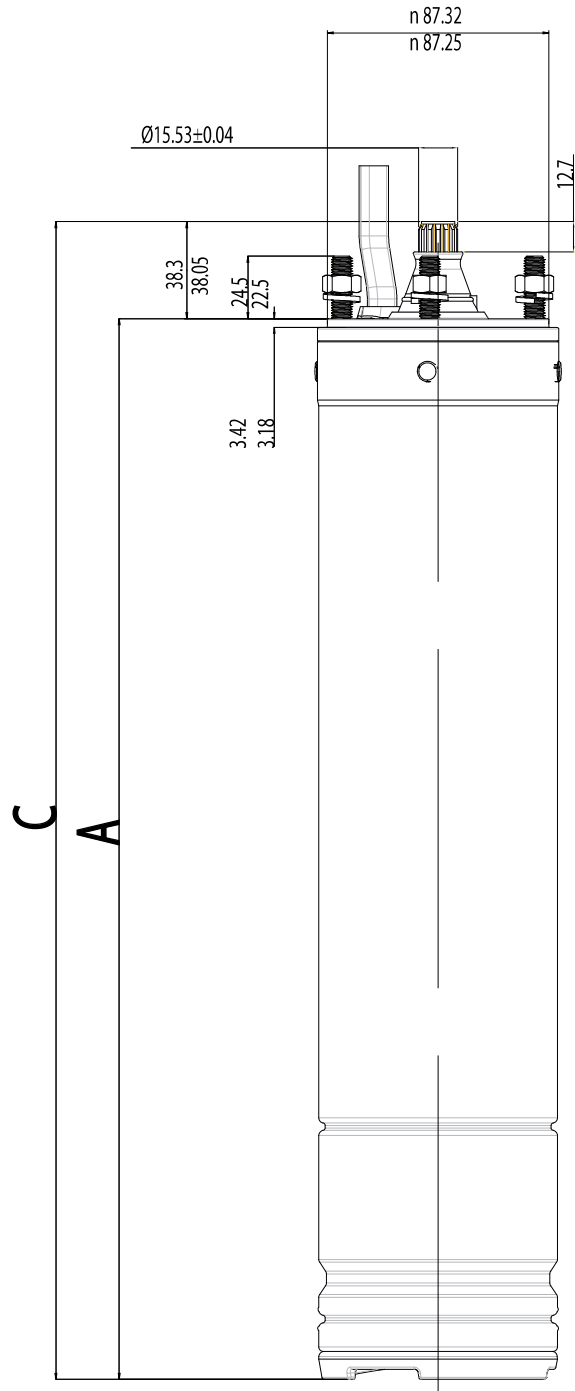
LENGHTS & WEIGHTS

SINGLE-PHASE LENGHTS AND WEIGHTS

TYPE	kW	Tot.A (mm)	Tot.C (mm)	Weight (Kg)	Oil (Kg)
NBS4 050 M	0.37	364	402	8.1	0.71
NBS4 075 M	0.55	389	427	9.2	0.72
NBS4 100 M	0.75	411	449	10.3	0.76
NBS4 150 M	1.10	434	472	11.4	0.79
NBS4 200 M	1.50	467	505	12.8	0.76
NBS4 300 M	2.20	565	603	17.4	0.86
NBS4K 300 M	2.20	565	603	17.4	0.84
NBS4K 400 M	3.00	680	718	24.1	0.90
NBS4K 500 M	3.70	680	718	24.1	0.86
NBS4K 550 M	4.00	680	718	24.1	0.93

THREE-PHASE LENGHTS AND WEIGHTS

TYPE	kW	Tot.A (mm)	Tot.C (mm)	Weight (Kg)	Oil (Kg)
NBS4 050 T	0.37	350	388	7.4	0.70
NBS4 075 T	0.55	364	402	8.0	0.71
NBS4 100 T	0.75	384	422	8.8	0.72
NBS4 150 T	1.10	411	449	10.6	0.70
NBS4 200 T	1.50	428	466	10.8	0.74
NBS4 300 T	2.20	467	505	12.5	0.78
NBS4 400 T	3.0	522	560	15.0	0.80
NBS4 550 T	4.0	587	625	18.3	0.82
NBS4 750 T	5.5	687	725	24.3	0.86
NBS4K 300 T	2.2	467	505	12.5	0.78
NBS4K 400 T	3.0	522	560	15.0	0.80
NBS4K 550 T	4.0	587	625	18.3	0.82
NBS4K 750 T	5.5	687	725	24.3	0.86
NBS4K 1000 T	7.5	768	806	28.3	1.09

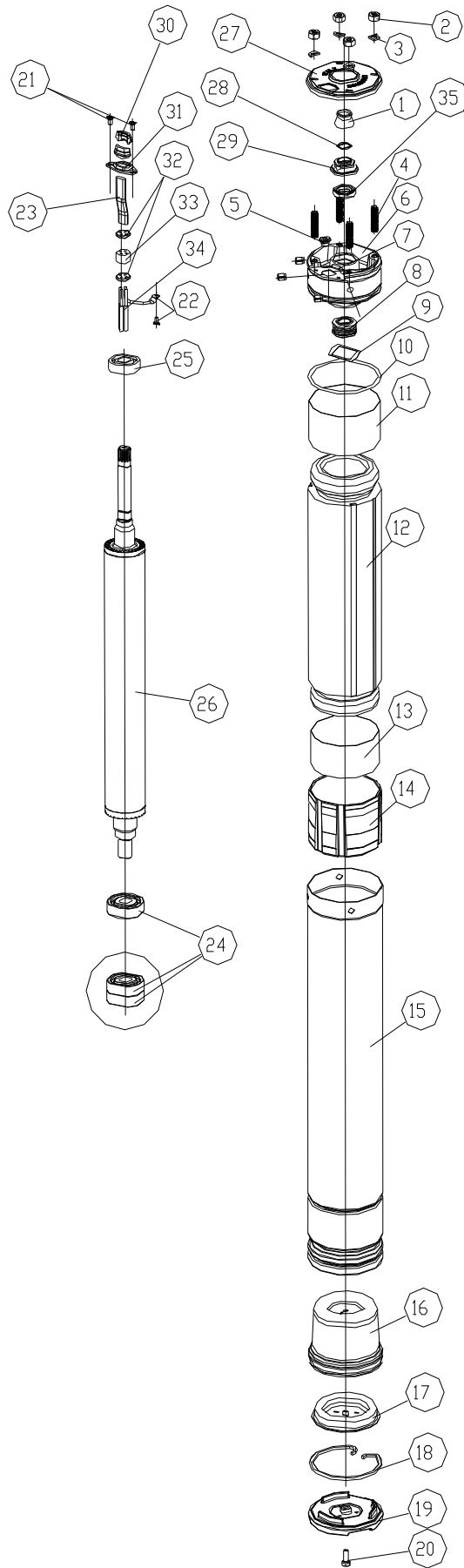


SPARE PARTS LIST

#	PART DESCRIPTION	Q.TY
1	Sand slinger	1
2	Nut	4
3	Washer	4
4	Stud	4
5	Oil fill plug	1
6	Top end bracket	1
7	Lock pins	4
8	Mechanical shaft seal	1
9	Wavy spring	1
10	O-ring gasket for top end bell	1
11 - 13	Insulation Roll up	1/1
12	Wound stator	1
14	Bottom end bell	1
15	Motor outer shell	1
16	Pressure equalization Diaphragm	1
17	Cover Diaphragm	1
18	Snap ring	1
19	Shell protector	1
20	Lock screw for shell protector	1
21	Screw for lead clamp	2
22	Grounding screw + lock washer	1/1
23	Lead	1
24	Lower ball bearing	1/2
25	Upper ball bearing	1
26	Rotor with shaft	1
27	Top end bell cover	1
28	Washer	1
29	Sand slinger base	1
30/32/33	Lead seal bushing + Lead pressure disk + Lead fix rubber	2/2/1
31	Lead Clamp	1
35	Lip seal	1
34	Parallel connectors	3
	Filling non-toxic oil Ondina 927	Kg.
	Instruction sticker	1
	Lead jacket g6	4

CONSTRUCTION MATERIAL

#	STANDARD WATER
1	Rubber
2	304 SS
3	304 SS
4	304 SS
5	Brass
6	Cast iron
7	304 SS
8	Nitrile-Carbon and ceramic face seal
9	Hardened steel
10	NBR
11	Nomex-Mylar
12	Copper wire
13	Nomex-Mylar
14	Aluminium
15	304 SS
16	Rubber
17	304 SS
18	304 SS
19	Lurynyl
20	304 SS
21	304 SS
22	304 SS
23	Rubber/ Copper wire
24	Hardened steel
25	Hardened steel
26	Steel/304 SS
27	304 SS
28	304 SS
29	Hostaform
30	Nylon
31	304 SS
32	Polypropylen
33	Buna N
34	Copper
35	NBR



MOTOR LEADS

MOTOR LEADS

Type	Di	i	Da	w	R	b4	h
4x1.5	1.5	0.6	2.7	1.9	2.5	14.6	5.1

LENGTHS

Standard cable	Lengths (mt)
0,37kW - 2,2kW	1,5
3,0kW - 5,5kW	2,5
7,5kW	3,5

