4" (100 mm)

Water / Oil Filled Submersible Motor

60 Hz.

www.virasubmersible.com

VCO4 Oil Filled Submersible Motor 4"

Features

- 4" Oil filled submersible motor.
- Completely rewindable.
- Cooling and lubrication by non toxic fluid.
- Stainless steel outer shell and shaft.
- Maintenance free lubricated ball bearings.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- All single phase motors will require control box (see page 70 to 76 for control box).
- 4" NEMA coupling flange.
- Pressure compensation diaphragm.

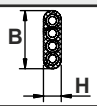
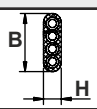
Specifications

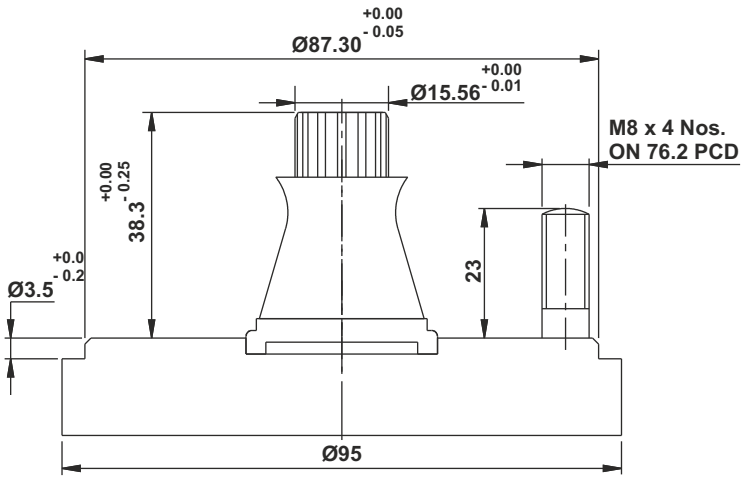
- Ratings: Single phase - 0,37 to 4 kW
  Three phase - 0,37 to 7,5 kW
- Supply voltages (Tolerance +6% / -10%):
  50 Hz, 1 phase, 220 V, 230 V
  50 Hz, 3 phase, 380 V, 400 V, 415 V
  60 Hz, 1 phase, 115 V, 230 V
  60 Hz, 3 phase, 230 V, 380 V, 460 V
- Insulation class: F
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Single phase - CCW
  Three phase - CCW and CW
- Maximum nos. of starts/hour:
  0,37 to 2,2 kW - 30
  3 to 7,5 kW - 20
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor: 8 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 350 metres
- Mounting: vertical / horizontal.

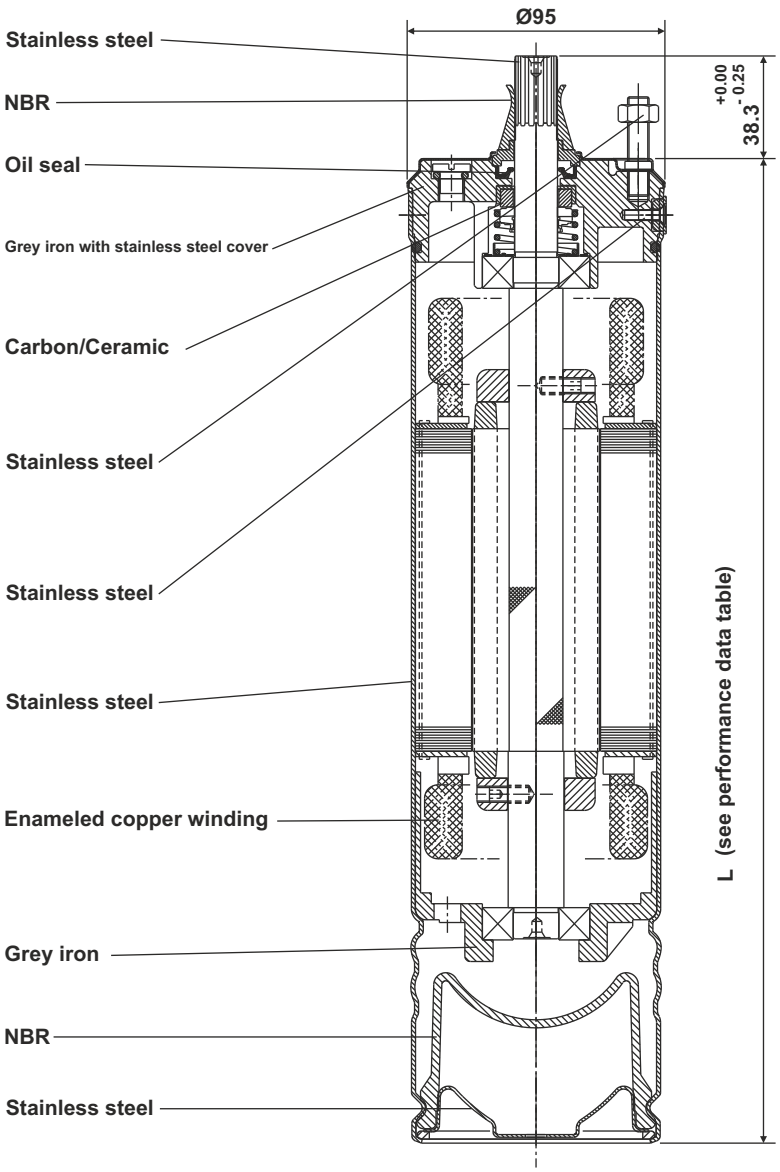
Special features on request

- AISI 304/316 stainless steel construction.
- Special voltages.

Cable data

kW	Type of start	Cable x Leads x Size (mm²)	Length [m]	H x B [mm]	
Single phase					
0,37 - 4	DOL	1 x 4 x 1,5	2,5	6 x 15,8	
Three phase					
0,37 - 4	DOL	1 x 4 x 1,5	2,5	6 x 15,8	
5,5 - 7,5		1 x 4 x 2,5	2,5	6,5 x 18	





Shaft

Spline shaft: 14 teeth, 24/48 pitch, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 4".

VCO4 Oil Filled Submersible Motor 4"

Performance data

60 Hz

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min⁻¹]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight	Gross volume
	kW	HP			[A]			50%	75%	100%	50%	75%	100%			[kg]	[m³]
Single phase																	
VCO40501612	0,37	0,5	3000	115	6,40	3,25	3400	52,0	53,0	53,0	0,81	0,86	0,89	1,24	385	10,0	0,0094
VCO40502612				230	3,20	3,30	3460	53,0	54,0	54,0	0,82	0,87	0,90	1,24			
VCO40751612	0,55	0,75	3000	115	9,00	3,45	3410	54,0	56,0	58,0	0,81	0,86	0,89	1,84	410	11,0	0,0094
VCO40752612				230	4,50	3,40	3460	55,0	57,0	59,0	0,82	0,87	0,90	1,84			
VCO41101612	0,75	1	3000	115	11,60	3,48	3410	56,0	60,0	62,0	0,81	0,86	0,89	2,51	425	12,0	0,0094
VCO41102612				230	5,75	3,50	3460	57,0	61,0	63,0	0,82	0,87	0,90	2,51			
VCO41152612	1,1	1,5	3000	230	7,84	3,55	3450	60,0	65,0	67,0	0,84	0,87	0,91	3,67	465	13,4	0,0094
VCO41202612	1,5	2	3000	230	10,42	3,60	3450	61,0	66,0	68,0	0,86	0,89	0,92	5,01	505	15,5	0,0117
VCO41302612	2,2	3	4000	230	15,23	3,70	3450	63,0	68,0	69,0	0,85	0,88	0,91	7,38	565	20,0	0,0117
VCO41552612	4	5,5	4000	230	23,95	3,70	3440	67,0	71,0	73,0	0,89	0,91	0,92	7,10	665	22,5	0,0147
Three phase																	
VCO40502632	0,37	0,5	3000	230	2,04	4,28	3440	60,0	63,0	66,0	0,63	0,66	0,69	1,23	375	9,9	0,0094
VCO40503632				380	1,22	4,30	3440	60,0	63,0	66,0	0,64	0,67	0,70	1,23			
VCO40504732				460	1,02	4,30	3440	60,0	63,0	66,0	0,63	0,66	0,69	1,23			
VCO40752632	0,55	0,75	3000	230	2,90	4,35	3440	62,0	65,0	67,0	0,67	0,68	0,71	1,84	395	10,5	0,0094
VCO40753632				380	1,73	4,40	3440	62,0	65,0	67,0	0,68	0,69	0,72	1,84			
VCO40754732				460	1,45	4,42	3440	62,0	65,0	67,0	0,67	0,68	0,71	1,84			
VCO41102632	0,75	1	3000	230	4,90	4,56	3440	62,0	66,0	68,0	0,68	0,70	0,72	2,51	410	11,0	0,0094
VCO41103632				380	2,30	4,60	3440	62,0	66,0	68,0	0,69	0,71	0,73	2,51			
VCO41104732				460	1,92	4,60	3440	62,0	66,0	68,0	0,68	0,70	0,72	2,51			
VCO41152632	1,1	1,5	3000	230	6,40	4,66	3440	65,0	69,0	72,0	0,68	0,71	0,73	3,68	425	12,0	0,0094
VCO41153632				380	3,01	4,70	3440	65,0	69,0	72,0	0,70	0,74	0,77	3,68			
VCO41154732				460	2,63	4,72	3440	65,0	69,0	72,0	0,68	0,71	0,73	3,68			
VCO41202632	1,5	2	3000	230	7,16	4,70	3440	66,0	69,0	72,0	0,69	0,70	0,73	5,01	465	14,6	0,0094
VCO41203632				380	3,90	4,75	3440	66,0	69,0	73,0	0,70	0,72	0,75	5,01			
VCO41204732				460	3,58	4,78	3440	66,0	69,0	72,0	0,69	0,70	0,73	5,01			
VCO41302632	2,2	3	3000	230	9,82	4,74	3420	69,0	72,0	75,0	0,71	0,72	0,75	7,38	505	16,2	0,0117
VCO41303632				380	5,40	4,80	3420	70,0	73,0	76,0	0,73	0,74	0,77	7,38			
VCO41304732				460	4,91	4,82	3420	69,0	72,0	75,0	0,71	0,72	0,75	7,38			
VCO41402632	3	4	4000	230	13,04	4,85	3420	71,0	76,0	76,0	0,74	0,75	0,76	10,02	565	19,3	0,0117
VCO41403632				380	7,00	4,90	3420	72,0	75,0	77,0	0,74	0,75	0,76	10,02			
VCO41404732				460	6,52	4,95	3420	72,0	74,0	76,0	0,74	0,75	0,76	10,02			
VCO41552632	4	5,5	4000	230	16,94	5,00	3430	70,0	74,0	76,0	0,71	0,76	0,78	13,46	615	21,4	0,0117
VCO41553632				380	9,50	5,10	3430	70,0	74,0	76,0	0,72	0,76	0,78	13,46			
VCO41554732				460	8,58	5,12	3430	70,0	74,0	76,0	0,71	0,75	0,77	13,46			
VCO41752632	5,5	7,5	6500	230	23,90	5,10	3430	70,0	74,0	76,0	0,71	0,74	0,76	18,50	665	24,8	0,0147
VCO41753632				380	13,50	5,20	3430	70,0	74,0	76,0	0,72	0,75	0,77	18,50			
VCO41754732				460	11,95	5,25	3430	70,0	74,0	76,0	0,71	0,74	0,76	18,50			
VCO42102632	7,5	10	6500	230	33,47	5,10	3430	73,0	74,0	75,0	0,72	0,73	0,75	22,10	805	31,6	0,0147
VCO42103632				380	18,50	5,20	3430	73,0	74,0	75,0	0,73	0,74	0,76	22,10			
VCO42104732				460	16,74	5,25	3430	73,0	74,0	75,0	0,72	0,73	0,75	22,10			

Pn: Rated output
Ka: Thrust load
Un: Rated voltage
In: Rated current
Ist/In: Locked rotor current/Rated amperage
n: Rated speed
η: Efficiency
cos φ: Power factor
Tn: Rated torque
L: Motor length

VSO4 Oil Filled Stainless Steel Submersible Motor 4"

Features

- 4" Oil filled stainless steel submersible motor.
- Complete stainless steel construction.
- Shaft extension made of stainless steel AISI 316.
- Stainless steel AISI 304 motor upper bearing housing.
- Stainless steel AISI 316 fasteners.
- Completely rewindable.
- Cooling and lubrication by non toxic fluid.
- Maintenance free lubricated ball bearings.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- All single phase motors will require control box (see page 70 to 76 for control box).
- 4" NEMA coupling flange.
- Pressure compensation diaphragm.

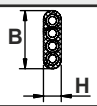
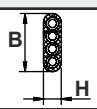
Specifications

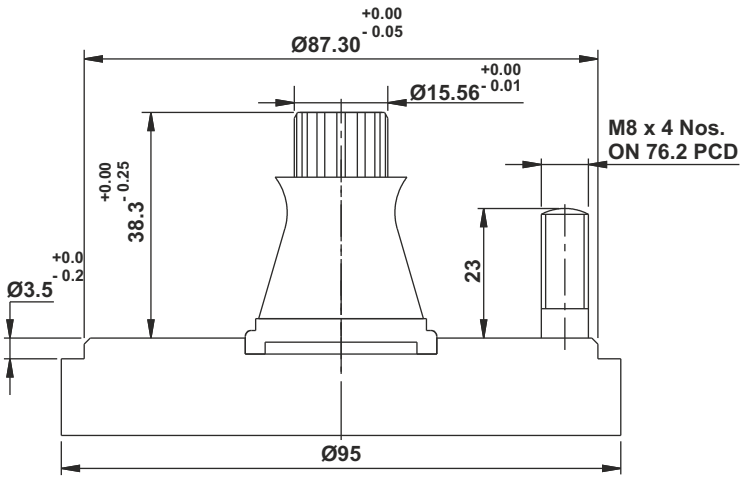
- Ratings: Single phase - 0,37 to 4 kW
  Three phase - 0,37 to 7,5 kW
- Supply voltages (Tolerance +6% / -10%):
  50 Hz, 1 phase, 220 V, 230 V
  50 Hz, 3 phase, 380 V, 400 V, 415 V
  60 Hz, 1 phase, 115 V, 230 V
  60 Hz, 3 phase, 230 V, 380 V, 460 V
- Insulation class: F
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Single phase - CCW
  Three phase - CCW and CW
- Maximum nos. of starts/hour:
  0,37 to 2,2 kW - 30
  3 to 7,5 kW - 20
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor: 8 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 350 metres
- Mounting: vertical / horizontal.

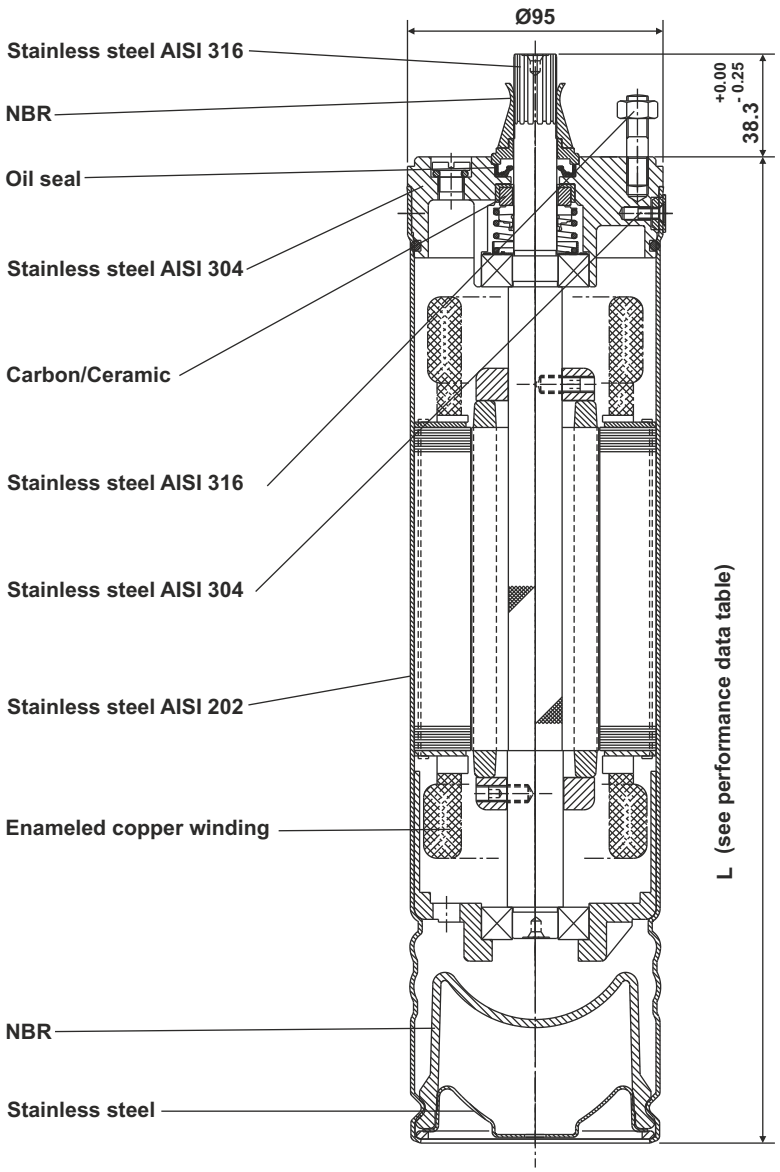
Special features on request

- Special voltages.

Cable data

kW	Type of start	Cable x Leads x Size (mm²)	Length [m]	H x B [mm]	
Single phase					
0,37 - 4	DOL	1 x 4 x 1,5	2,5	6 x 15,8	
Three phase					
0,37 - 4	DOL	1 x 4 x 1,5	2,5	6 x 15,8	
5,5 - 7,5		1 x 4 x 2,5	2,5	6,5 x 18	





Shaft

Spline shaft: 14 teeth, 24/48 pitch, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 4".

Performance data

60 Hz

Motor type	Pn		Ka	Un	In	Ist/In	n	η			COS φ			Tn	L	Gross weight	Gross volume
	kW	HP	[N]	[V]	[A]		[min⁻¹]	50%	75%	100%	50%	75%	100%	[Nm]	[mm]	[kg]	[m³]
Single phase																	
VSO40501612	0,37	0,5	3000	115	6,40	3,25	3400	52,0	53,0	53,0	0,81	0,86	0,89	1,24	385	10,0	0,0094
VSO40502612				230	3,20	3,30	3460	53,0	54,0	54,0	0,82	0,87	0,90	1,24			
VSO40751612	0,55	0,75	3000	115	9,00	3,45	3410	54,0	56,0	58,0	0,81	0,86	0,89	1,84	410	11,0	0,0094
VSO40752612				230	4,50	3,40	3460	55,0	57,0	59,0	0,82	0,87	0,90	1,84			
VSO41101612	0,75	1	3000	115	11,60	3,48	3410	56,0	60,0	62,0	0,81	0,86	0,89	2,51	425	12,0	0,0094
VSO41102612				230	5,75	3,50	3460	57,0	61,0	63,0	0,82	0,87	0,90	2,51			
VSO41152612	1,1	1,5	3000	230	7,84	3,55	3450	60,0	65,0	67,0	0,84	0,87	0,91	3,67	465	13,4	0,0094
VSO41202612	1,5	2	3000	230	10,42	3,60	3450	61,0	66,0	68,0	0,86	0,89	0,92	5,01	505	15,5	0,0117
VSO41302612	2,2	3	4000	230	15,23	3,70	3450	63,0	68,0	69,0	0,85	0,88	0,91	7,38	565	20,0	0,0117
VSO41552612	4	5,5	4000	230	23,95	3,70	3440	67,0	71,0	73,0	0,89	0,91	0,92	7,10	665	22,5	0,0147
Three phase																	
VSO40502632	0,37	0,5	3000	230	2,04	4,28	3440	60,0	63,0	66,0	0,63	0,66	0,69	1,23	375	9,9	0,0094
VSO40503632				380	1,22	4,30	3440	60,0	63,0	66,0	0,64	0,67	0,70	1,23			
VSO40504732				460	1,02	4,30	3440	60,0	63,0	66,0	0,63	0,66	0,69	1,23			
VSO40752632	0,55	0,75	3000	230	2,90	4,35	3440	62,0	65,0	67,0	0,67	0,68	0,71	1,84	395	10,5	0,0094
VSO40753632				380	1,73	4,40	3440	62,0	65,0	67,0	0,68	0,69	0,72	1,84			
VSO40754732				460	1,45	4,42	3440	62,0	65,0	67,0	0,67	0,68	0,71	1,84			
VSO41102632	0,75	1	3000	230	4,90	4,56	3440	62,0	66,0	68,0	0,68	0,70	0,72	2,51	410	11,0	0,0094
VSO41103632				380	2,30	4,60	3440	62,0	66,0	68,0	0,69	0,71	0,73	2,51			
VSO41104732				460	1,92	4,60	3440	62,0	66,0	68,0	0,68	0,70	0,72	2,51			
VSO41152632	1,1	1,5	3000	230	6,40	4,66	3440	65,0	69,0	72,0	0,68	0,71	0,73	3,68	425	12,0	0,0094
VSO41153632				380	3,01	4,70	3440	65,0	69,0	72,0	0,70	0,74	0,77	3,68			
VSO41154732				460	2,63	4,72	3440	65,0	69,0	72,0	0,68	0,71	0,73	3,68			
VSO41202632	1,5	2	3000	230	7,16	4,70	3440	66,0	69,0	72,0	0,69	0,70	0,73	5,01	465	14,6	0,0094
VSO41203632				380	3,90	4,75	3440	66,0	69,0	73,0	0,70	0,72	0,75	5,01			
VSO41204732				460	3,58	4,78	3440	66,0	69,0	72,0	0,69	0,70	0,73	5,01			
VSO41302632	2,2	3	3000	230	9,82	4,74	3420	69,0	72,0	75,0	0,71	0,72	0,75	7,38	505	16,2	0,0117
VSO41303632				380	5,40	4,80	3420	70,0	73,0	76,0	0,73	0,74	0,77	7,38			
VSO41304732				460	4,91	4,82	3420	69,0	72,0	75,0	0,71	0,72	0,75	7,38			
VSO41402632	3	4	4000	230	13,04	4,85	3420	71,0	76,0	76,0	0,74	0,75	0,76	10,02	565	19,3	0,0117
VSO41403632				380	7,00	4,90	3420	72,0	75,0	77,0	0,74	0,75	0,76	10,02			
VSO41404732				460	6,52	4,95	3420	72,0	74,0	76,0	0,74	0,75	0,76	10,02			
VSO41552632	4	5,5	4000	230	16,94	5,00	3430	70,0	74,0	76,0	0,71	0,76	0,78	13,46	615	21,4	0,0117
VSO41553632				380	9,50	5,10	3430	70,0	74,0	76,0	0,72	0,76	0,78	13,46			
VSO41554732				460	8,58	5,12	3430	70,0	74,0	76,0	0,71	0,75	0,77	13,46			
VSO41752632	5,5	7,5	6500	230	23,90	5,10	3430	70,0	74,0	76,0	0,71	0,74	0,76	18,50	665	24,8	0,0147
VSO41753632				380	13,50	5,20	3430	70,0	74,0	76,0	0,72	0,75	0,77	18,50			
VSO41754732				460	11,95	5,25	3430	70,0	74,0	76,0	0,71	0,74	0,76	18,50			
VSO42102632	7,5	10	6500	230	33,47	5,10	3430	73,0	74,0	75,0	0,72	0,73	0,75	22,10	805	31,6	0,0147
VSO42103632				380	18,50	5,20	3430	73,0	74,0	75,0	0,73	0,74	0,76	22,10			
VSO42104732				460	16,74	5,25	3430	73,0	74,0	75,0	0,72	0,73	0,75	22,10			

Pn: Rated output
Ka: Thrust load
Un: Rated voltage
In: Rated current
Ist/In: Locked rotor current/Rated amperage
n: Rated speed
η: Efficiency
cos φ: Power factor
Tn: Rated torque
L: Motor length

VCW4 Water Filled Submersible Motor 4"

Features

- 4" Water filled submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Corrosion resistant stainless steel stator jacket and shaft.
- Water lubricated radial and axial thrust bearings.
- Counter thrust bearing.
- Motors are pre-filled with clean water + Glycol mixture.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- Single phase motors are capacitor start and run design. All single phase motors will require control box (see page 70 to 76 for control box).
- Pressure compensation diaphragm.

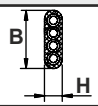
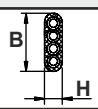
Specifications

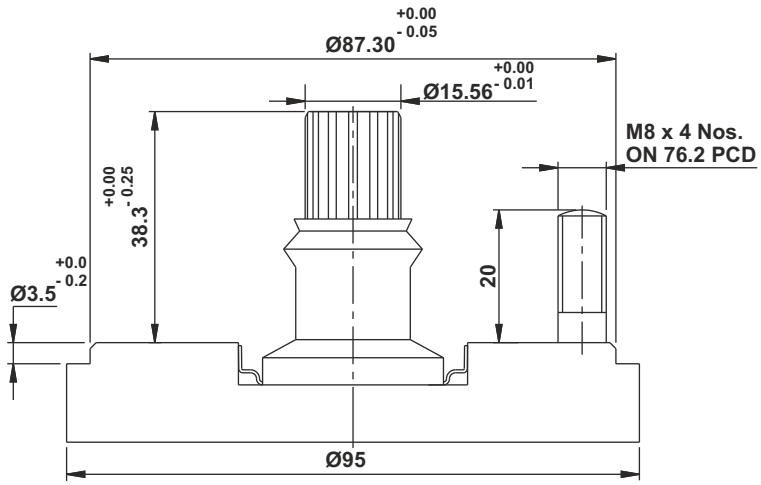
- Ratings: Single phase - 0,37 to 4 kW
  Three phase - 0,37 to 5,5 kW
- Supply voltages (Tolerance +6% / -10%):
  50 Hz, 1 phase, 220 V, 230 V
  50 Hz, 3 phase, 380 V, 400 V, 415 V
  60 Hz, 1 phase, 115 V, 230 V
  60 Hz, 3 phase, 230 V, 380 V, 460 V
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Single phase - CCW
  Three phase - CCW and CW
- Maximum nos. of starts/hour:
  0,37 to 2,2 kW - 20
  3 to 5,5 kW - 10
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor: 8 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 350 metres.

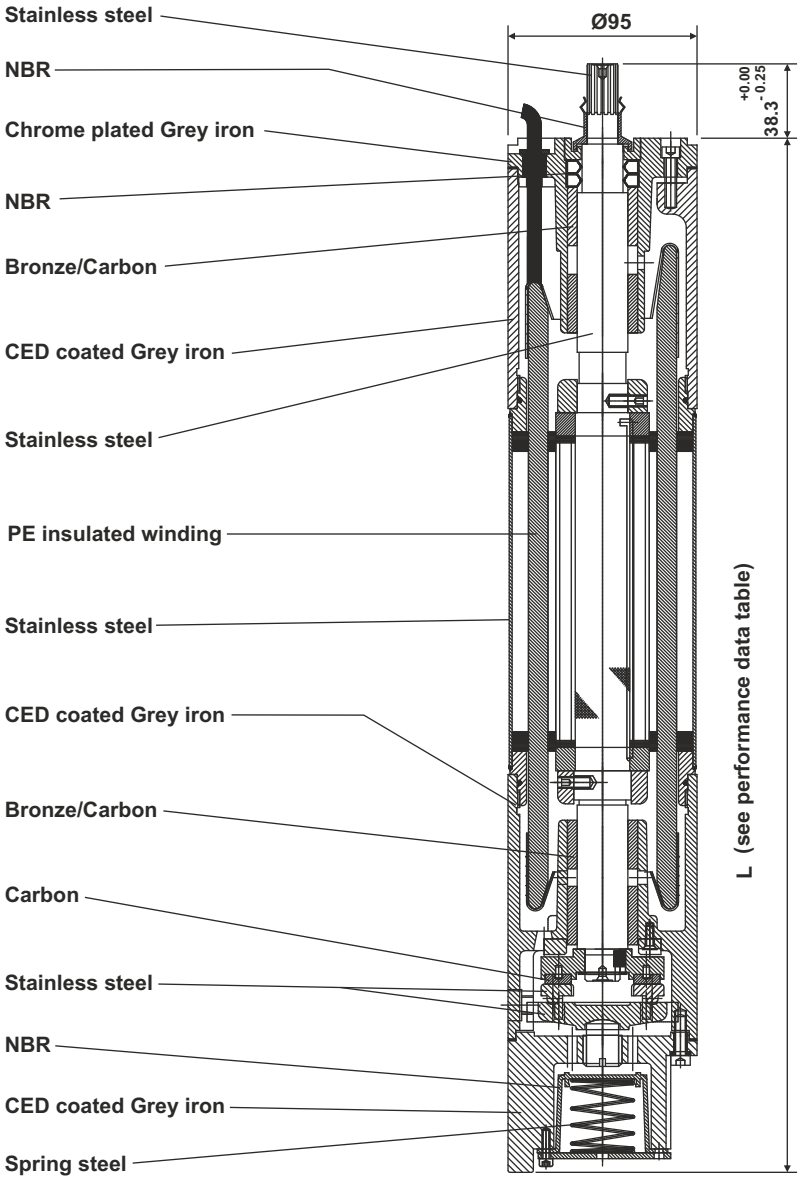
Special features on request

- Special voltages.

Cable data

kW	Type of start	Cable x Leads x Size (mm²)	Length [m]	H x B [mm]	
		Single phase			
0,37 - 0,75	DOL	1 x 4 x 1,5	2.5	6 x 15,8	
1,1 - 4		1 x 4 x 2,5	2.5	6,5 x 18	
		Three phase			
0,37 - 2,2	DOL	1 x 4 x 1,5	2.5	6 x 15,8	
3 - 5,5		1 x 4 x 2,5	2.5	6,5 x 18	





Shaft

Spline shaft: 14 teeth, 24/48 pitch, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 4".

VCW4 Water Filled Submersible Motor 4"

Performance data

60 Hz

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min⁻¹]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight	Gross volume
	kW	HP			[A]			50%	75%	100%	50%	75%	100%			[kg]	[m³]
Single phase																	
VCW40501612	0,37	0,5	4000	115	9,00	4,90	3450	51,0	56,0	58,0	0,81	0,84	0,86	1,23	431	14,3	0,0094
VCW40502612				230	4,40	4,90	3450	52,0	56,0	58,0	0,79	0,85	0,87	1,23			
VCW40751612	0,55	0,75	4000	115	11,00	4,90	3450	52,0	56,0	58,0	0,80	0,84	0,86	1,83	446	15,2	0,0094
VCW40752612				230	5,50	4,90	3450	53,0	56,0	58,0	0,80	0,85	0,87	1,83			
VCW41101612	0,75	1	4000	115	13,40	5,00	3450	52,0	56,0	59,0	0,79	0,81	0,83	2,50	456	16,7	0,0094
VCW41102612				230	6,66	5,00	3450	53,0	56,0	59,0	0,79	0,81	0,83	2,50			
VCW41151612	1,1	1,5	4000	115	18,00	5,10	3450	61,0	66,0	67,0	0,81	0,87	0,88	3,67	511	19,1	0,0094
VCW41152612				230	9,00	5,10	3450	62,0	65,0	67,0	0,82	0,87	0,88	3,67			
VCW41201612	1,5	2	4000	115	21,60	5,15	3450	61,0	66,0	68,0	0,82	0,86	0,89	5,02	611	22,6	0,0117
VCW41202612				230	10,78	5,15	3450	62,0	66,0	68,0	0,83	0,87	0,89	5,02			
VCW41301612	2,2	3	4000	115	31,00	5,25	3450	63,0	69,0	72,0	0,85	0,89	0,91	7,38	711	26,4	0,0147
VCW41302612				230	15,50	5,25	3450	64,0	69,0	71,0	0,86	0,89	0,91	7,38			
VCW41551612	4	5,5	4000	115	53,00	5,30	3450	65,0	70,0	72,0	0,86	0,92	0,95	8,10	841	30,3	0,0147
VCW41552612				230	26,50	5,30	3450	66,0	70,0	72,0	0,86	0,95	0,95	8,10			
Three phase																	
VCW40502632				230	2,30	4,20	3450	59,0	61,0	65,0	0,62	0,65	0,68	1,22			
VCW40503632	0,37	0,5	4000	380	1,30	4,50	3450	59,0	61,0	65,0	0,64	0,68	0,71	1,22	441	16,0	0,0094
VCW40504732				460	1,20	4,50	3450	59,0	61,0	65,0	0,63	0,66	0,68	1,22			
VCW40752632				230	3,40	4,30	3450	56,0	6,0	64,0	0,68	0,72	0,75	1,82			
VCW40753632	0,55	0,75	4000	380	1,95	4,70	3450	57,0	62,0	64,0	0,69	0,73	0,77	1,82	456	16,8	0,0094
VCW40754732				460	1,66	4,80	3450	59,0	62,0	66,0	0,65	0,69	0,70	1,82			
VCW41102632				230	4,20	4,30	3450	58,0	63,0	65,0	0,69	0,72	0,72	2,50			
VCW41103632	0,75	1	4000	380	2,50	4,70	3450	59,0	64,0	66,0	0,70	0,73	0,73	2,50	471	17,6	0,0094
VCW41104732				460	1,95	4,80	3450	60,0	65,0	67,0	0,69	0,72	0,72	2,50			
VCW41152632				230	5,40	4,35	3450	62,0	67,0	71,0	0,68	0,71	0,73	3,69			
VCW41153632	1,1	1,5	4000	380	3,20	4,75	3450	62,0	37,0	71,0	0,69	0,73	0,74	3,69	521	20,3	0,0117
VCW41154732				460	2,66	4,85	3450	62,0	67,0	71,0	0,68	0,71	0,73	3,69			
VCW41202632				230	7,20	4,85	3450	63,0	69,0	71,0	0,71	0,76	0,74	5,03			
VCW41203632	1,5	2	4000	380	3,90	4,85	3450	63,0	69,0	72,0	0,72	0,78	0,76	5,03	571	22,5	0,0117
VCW41204732				460	3,58	4,88	3450	63,0	69,0	71,0	0,71	0,76	0,74	5,03			
VCW41302632				230	10,20	4,90	3450	67,0	70,0	73,0	0,71	0,73	0,74	7,40			
VCW41303632	2,2	3	4000	380	5,40	4,90	3450	68,0	71,0	74,0	0,73	0,75	0,76	7,40	671	25,5	0,0147
VCW41304732				460	5,11	4,90	3450	67,0	70,0	73,0	0,71	0,73	0,74	7,40			
VCW41402632				230	13,20	4,85	3450	69,0	72,0	74,0	0,74	0,76	0,77	10,09			
VCW41403632	3	4	4000	380	7,10	4,90	3450	70,0	73,0	75,0	0,75	0,77	0,78	10,09	721	28,0	0,0147
VCW41404732				460	6,61	4,95	3450	69,0	72,0	74,0	0,74	0,86	0,77	10,09			
VCW41552632				230	17,62	5,20	3450	70,0	73,0	74,0	0,72	0,75	0,77	13,45			
VCW41553632	4	5,5	4000	380	9,70	5,18	3450	70,0	73,0	74,0	0,73	0,70	0,78	13,45	821	33,4	0,0147
VCW41554732				460	8,81	5,20	3450	70,0	73,0	74,0	0,72	0,75	0,77	13,45			
VCW41752632				230	24,55	5,20	3450	69,0	74,0	75,0	0,72	0,74	0,75	18,50			
VCW41753632	5,5	7,5	4000	380	13,93	5,30	3450	70,0	74,0	75,0	0,76	0,79	0,80	18,50	891	34,3	0,0147
VCW41754732				460	12,27	5,35	3450	70,0	74,0	75,0	0,72	0,74	0,75	18,50			

Pn: Rated output
Ka: Thrust load
Un: Rated voltage
In: Rated current
Ist/In: Locked rotor current/Rated amperage
n: Rated speed
η: Efficiency
cos φ: Power factor
Tn: Rated torque
L: Motor length

VSW4 Water Filled Stainless Steel Submersible Motor 4"

Features

- 4" Water filled stainless steel submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Complete stainless steel AISI 304 construction.
- Water lubricated radial and axial thrust bearings.
- Counter thrust bearing.
- Motors are pre-filled with clean water + Glycol mixture.
- Shaft extension made of stainless steel AISI 316.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- Single phase motors are capacitor start and run design. All single phase motors will require control box (see page 70 to 76 for control box).
- Pressure compensation diaphragm.

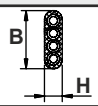
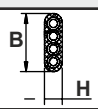
Specifications

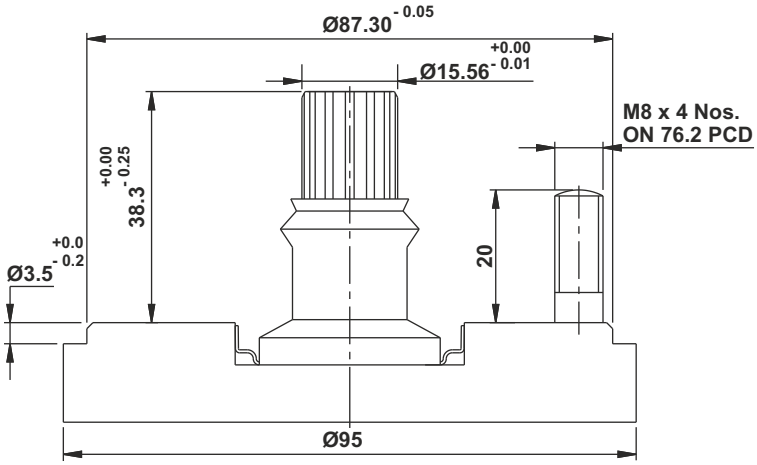
- Ratings: Single phase - 0,37 to 4 kW
  Three phase - 0,37 to 5,5 kW
- Supply voltages (Tolerance +6% / -10%):
  50 Hz, 1 phase, 220 V, 230 V
  50 Hz, 3 phase, 380 V, 400 V, 415 V
  60 Hz, 1 phase, 115 V, 230 V
  60 Hz, 3 phase, 230 V, 380 V, 460 V
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Single phase - CCW
  Three phase - CCW and CW
- Maximum nos. of starts/hour:
  0,37 to 2,2 kW - 20
  3 to 5,5 kW - 10
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor: 8 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 350 metres.

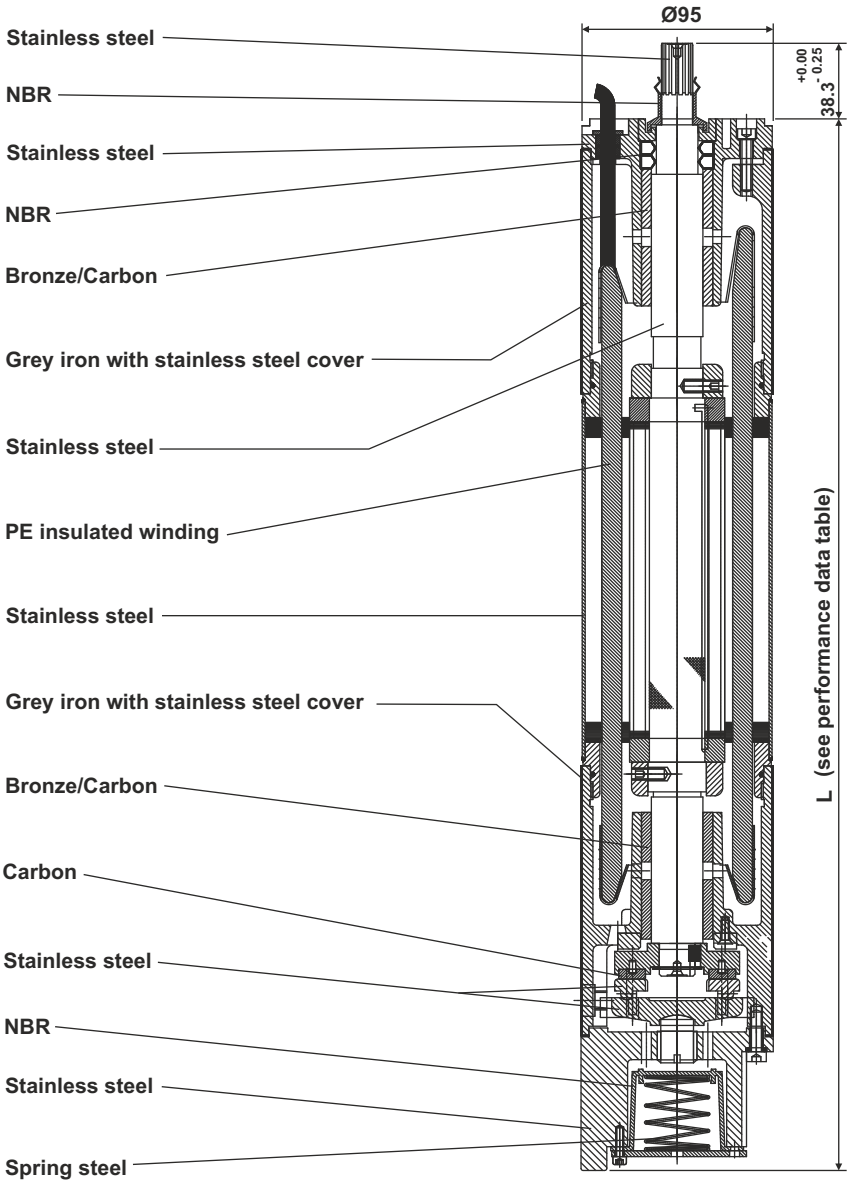
Special features on request

- AISI 316 stainless steel construction.
- Special voltages.

Cable data

kW	Type of start	Cable x Leads x Size (mm²)	Length [m]	H x B [mm]	
Single phase					
0,37 - 0,75	DOL	1 x 4 x 1,5	2.5	6 x 15,8	
1,1 - 4		1 x 4 x 2,5	2.5	6,5 x 18	
Three phase					
0,37 - 2.2	DOL	1 x 4 x 1,5	2.5	6 x 15,8	
3 - 5,5		1 x 4 x 2,5	2.5	6,5 x 18	





Shaft

Spline shaft: 14 teeth, 24/48 pitch, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 4".

VSW4 Water Filled Stainless Steel Submersible Motor 4"

Performance data

60 Hz

Motor type	Pn		Ka	Un	In	Ist/In	n	η [%]			COS φ			Tn	L	Gross weight	Gross volume
	kW	HP	[N]	[V]	[A]		[min⁻¹]	50%	75%	100%	50%	75%	100%	[Nm]	[mm]	[kg]	[m³]
Single phase																	
VSW40501612	0,37	0,5	4000	115	9,00	4,90	3450	51,0	56,0	58,0	0,81	0,84	0,86	1,23	481	15,3	0,0094
VSW40502612				230	4,40	4,90	3450	52,0	56,0	58,0	0,79	0,85	0,87	1,23			
VSW40751612	0,55	0,75	4000	115	11,00	4,90	3450	52,0	56,0	58,0	0,80	0,84	0,86	1,83	496	16,2	0,0094
VSW40752612				230	5,50	4,90	3450	53,0	56,0	58,0	0,80	0,85	0,87	1,83			
VSW41101612	0,75	1	4000	115	13,40	5,00	3450	52,0	56,0	59,0	0,79	0,81	0,83	2,50	506	17,7	0,0094
VSW41102612				230	6,66	5,00	3450	53,0	56,0	59,0	0,79	0,81	0,83	2,50			
VSW41151612	1,1	1,5	4000	115	18,00	5,10	3450	61,0	66,0	67,0	0,81	0,87	0,88	3,67	561	20,1	0,0117
VSW41152612				230	9,00	5,10	3450	62,0	65,0	67,0	0,82	0,87	0,88	3,67			
VSW41201612	1,5	2	4000	115	21,60	5,15	3450	61,0	66,0	68,0	0,82	0,86	0,89	5,02	611	22,6	0,0117
VSW41202612				230	10,78	5,15	3450	62,0	66,0	68,0	0,83	0,87	0,89	5,02			
VSW41301612	2,2	3	4000	115	31,00	5,25	3450	63,0	69,0	72,0	0,85	0,89	0,91	7,38	711	26,4	0,0147
VSW41302612				230	15,50	5,25	3450	64,0	69,0	71,0	0,86	0,89	0,91	7,38			
VSW41551612	4	5,5	4000	115	53,00	5,30	3450	65,0	70,0	72,0	0,86	0,92	0,95	8,10	841	30,3	0,0147
VSW41552612				230	26,50	5,30	3450	66,0	70,0	72,0	0,86	0,95	0,95	8,10			
Three phase																	
VSW40502632				230	2,30	4,20	3450	59,0	61,0	65,0	0,62	0,65	0,68	1,22			
VSW40503632	0,37	0,5	4000	380	1,30	4,50	3450	59,0	61,0	65,0	0,64	0,68	0,71	1,22	491	17,0	0,0094
VSW40504732				460	1,20	4,50	3450	59,0	61,0	65,0	0,63	0,66	0,68	1,22			
VSW40752632				230	3,40	4,30	3450	56,0	6,0	64,0	0,68	0,72	0,75	1,82			
VSW40753632	0,55	0,75	4000	380	1,95	4,70	3450	57,0	62,0	64,0	0,69	0,73	0,77	1,82	506	17,8	0,0094
VSW40754732				460	1,66	4,80	3450	59,0	62,0	66,0	0,65	0,69	0,70	1,82			
VSW41102632				230	4,20	4,30	3450	58,0	63,0	65,0	0,69	0,72	0,72	2,50			
VSW41103632	0,75	1	4000	380	2,50	4,70	3450	59,0	64,0	66,0	0,70	0,73	0,73	2,50	521	18,6	0,0117
VSW41104732				460	1,95	4,80	3450	60,0	65,0	67,0	0,69	0,72	0,72	2,50			
VSW41152632				230	5,40	4,35	3450	62,0	67,0	71,0	0,68	0,71	0,73	3,69			
VSW41153632	1,1	1,5	4000	380	3,20	4,75	3450	62,0	37,0	71,0	0,69	0,73	0,74	3,69	571	21,3	0,0117
VSW41154732				460	2,66	4,85	3450	62,0	67,0	71,0	0,68	0,71	0,73	3,69			
VSW41202632				230	7,20	4,85	3450	63,0	69,0	71,0	0,71	0,76	0,74	5,03			
VSW41203632	1,5	2	4000	380	3,90	4,85	3450	63,0	69,0	72,0	0,72	0,78	0,76	5,03	621	23,5	0,0117
VSW41204732				460	3,58	4,88	3450	63,0	69,0	71,0	0,71	0,76	0,74	5,03			
VSW41302632				230	10,20	4,90	3450	67,0	70,0	73,0	0,71	0,73	0,74	7,40			
VSW41303632	2,2	3	4000	380	5,40	4,90	3450	68,0	71,0	74,0	0,73	0,75	0,76	7,40	671	25,5	0,0147
VSW41304732				460	5,11	4,90	3450	67,0	70,0	73,0	0,71	0,73	0,74	7,40			
VSW41402632				230	13,20	4,85	3450	69,0	72,0	74,0	0,74	0,76	0,77	10,09			
VSW41403632	3	4	4000	380	7,10	4,90	3450	70,0	73,0	75,0	0,75	0,77	0,78	10,09	721	28,0	0,0147
VSW41404732				460	6,61	4,95	3450	69,0	72,0	74,0	0,74	0,86	0,77	10,09			
VSW41552632				230	17,62	5,20	3450	70,0	73,0	74,0	0,72	0,75	0,77	13,45			
VSW41553632	4	5,5	4000	380	9,70	5,18	3450	70,0	73,0	74,0	0,73	0,70	0,78	13,45	821	33,4	0,0147
VSW41554732				460	8,81	5,20	3450	70,0	73,0	74,0	0,72	0,75	0,77	13,45			
VSW41752632				230	24,55	5,20	3450	69,0	74,0	75,0	0,72	0,74	0,75	18,50			
VSW41753632	5,5	7,5	4000	380	13,93	5,30	3450	70,0	74,0	75,0	0,76	0,79	0,80	18,50	891	34,3	0,0147
VSW41754732				460	12,27	5,35	3450	70,0	74,0	75,0	0,72	0,74	0,75	18,50			

Pn: Rated output
Ka: Thrust load
Un: Rated voltage
In: Rated current
Ist/In: Locked rotor current/Rated amperage
n: Rated speed
η: Efficiency
cos φ: Power factor
Tn: Rated torque
L: Motor length