



**8" (200 mm)**

Water Filled Submersible Motor

**60 Hz.**

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[www.virasubmersible.com](http://www.virasubmersible.com)

### Features

- 8" Water filled submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Corrosion resistant stainless steel stator jacket and shaft.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- 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).
- 8" NEMA coupling flange.
- Pressure compensation diaphragm.

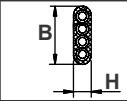
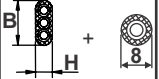
### Specifications

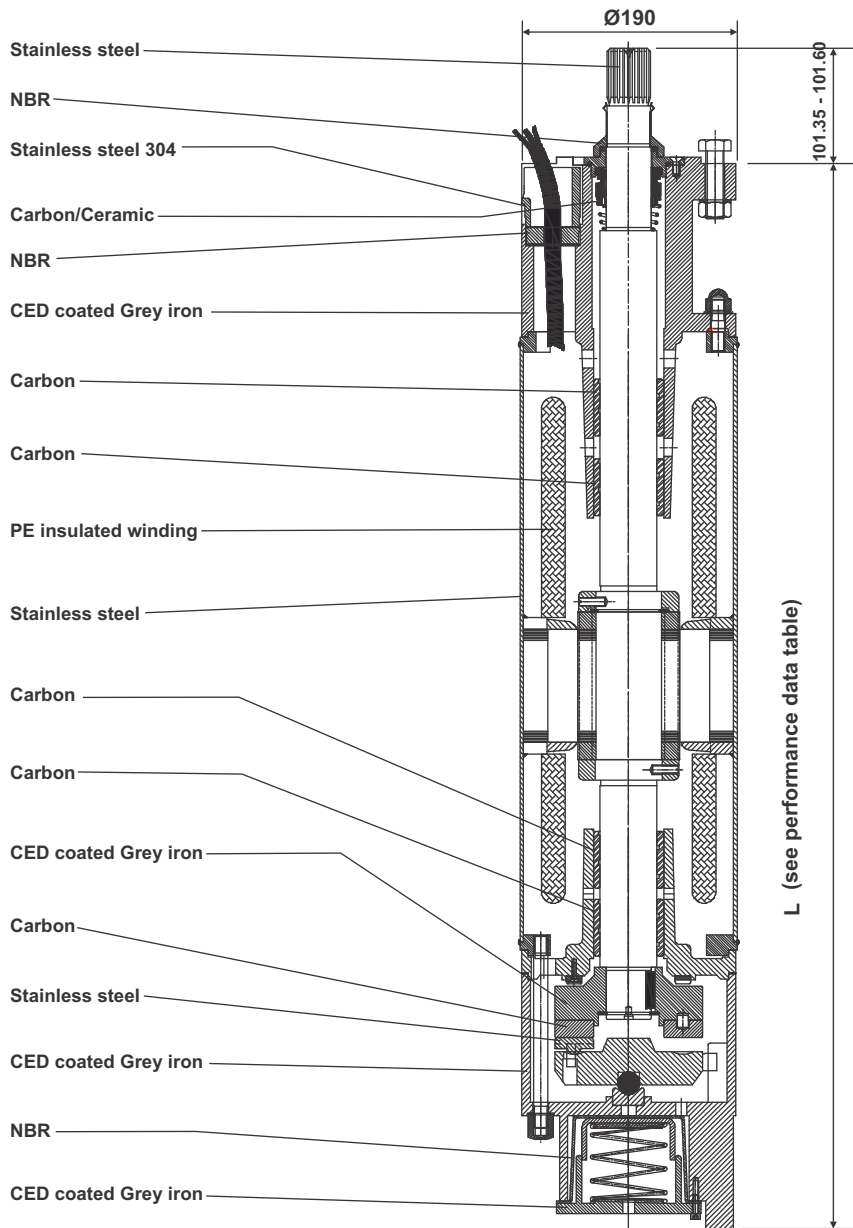
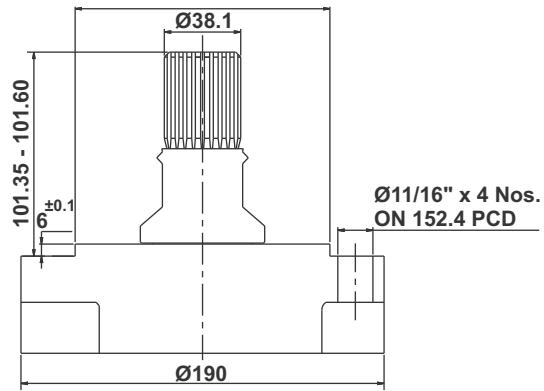
- Ratings: Three phase - 30 to 110 kW, 50 Hz  
37 to 110 kW, 60 Hz
- Supply voltages (Tolerance +10% / -15%):  
50 Hz, 3 phase, 380 V, 400 V, 415 V  
60 Hz, 3 phase, 230 V, 380 V, 460 V
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Three phase - CCW and CW
- Maximum nos. of starts/hour:  
30 to 55 kW - 25  
66 to 110 kW - 20
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor:  
30 to 37 kW - 30 cm/sec  
45 to 110 kW - 45 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x I<sub>n</sub>
- Maximum submerged depth: 200 metres.

### Special features on request

- Mechanical shaft seal Sic/Sic.
- Built-in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.

### Cable data

kW	Type of start	Cable x Leads x Size (mm <sup>2</sup> )	Length [m]	H x B [mm]	
30 - 93	DOL	1 x 4 x 16	5	14 x 37,6	
110	DOL	1 x 3 x 35 + 1 x 1 x 16	5	15,3 x 35	



### Shaft

Spline shaft: 23 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 8".

### Performance data

# 60 Hz

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min <sup>-1</sup> ]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m <sup>3</sup> ]
	kW	HP						50%	75%	100%	50%	75%	100%				
VCW82502632	37	50	45000	230	149,6	5,76	3480	82,1	83,9	85,0	0,75	0,81	0,84	101,60	1041	166,2	0,1905
VCW82503632				380	89,1	5,75	3500	82,7	84,7	85,4	0,76	0,82	0,85	101,00	1041	166,2	0,1905
VCW82504732				460	72,2	5,75	3480	82,1	84,5	85,0	0,77	0,84	0,87	101,60	1131	182,2	0,2017
VCW82602632	45	60	45000	230	179,8	5,75	3500	83,1	84,9	86,0	0,75	0,81	0,84	122,85	1131	182,2	0,2017
VCW82603632				380	107,6	5,80	3510	83,9	85,7	86,0	0,75	0,81	0,85	122,50	1131	182,2	0,2017
VCW82604732				460	86,5	5,80	3500	83,3	85,5	86,3	0,76	0,82	0,87	122,85	1231	200,2	0,2167
VCW82752632	55	75	45000	230	217,3	5,75	3500	83,2	85,3	87,0	0,75	0,80	0,84	150,00	1231	200,2	0,2167
VCW82753632				380	130,0	5,80	3510	84,2	86,1	87,0	0,76	0,82	0,85	149,72	1231	200,2	0,2167
VCW82754732				460	104,9	5,80	3500	83,7	85,9	87,0	0,76	0,82	0,87	150,00	1281	209,2	0,2241
VCW82902632	66	90	45000	230	254,7	5,75	3500	83,3	86,1	88,0	0,74	0,81	0,85	180,20	1369	213,6	0,2391
VCW82903632				380	152,4	6,00	3510	84,9	87,2	88,0	0,75	0,82	0,86	179,66	1369	213,6	0,2391
VCW82904732				460	124,4	6,00	3500	84,1	86,9	88,0	0,76	0,83	0,87	180,20	1369	213,6	0,2391
VCW83102632	75	100	45000	230	286,1	5,76	3500	83,5	85,9	88,0	0,75	0,82	0,86	204,70	1419	243,2	0,2465
VCW83103632				380	169,2	6,01	3510	85,1	87,3	88,0	0,76	0,84	0,88	204,16	1419	243,2	0,2465
VCW83104732				460	139,8	6,01	3500	84,2	86,9	88,0	0,77	0,83	0,88	204,70	1419	243,2	0,2465
VCW83122632	93	125	45000	230	363,2	5,76	3500	83,7	85,7	88,0	0,75	0,81	0,84	253,80	1559	283,2	0,2652
VCW83123632				380	216,3	6,01	3510	84,7	87,1	88,4	0,75	0,81	0,85	253,16	1559	283,2	0,2652
VCW83124732				460	174,7	6,01	3500	84,5	86,9	88,3	0,76	0,82	0,87	253,80	1559	283,2	0,2652
VCW83153632	110	150	45000	380	263,0	6,01	3500	82,3	84,7	86,0	0,75	0,81	0,85	300,29	1689	359,2	0,2839
VCW83154732				460	214,0	6,01	3480	82,4	84,9	86,2	0,76	0,82	0,86	302,02	1689	359,2	0,2839

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



### Features

- 8" Water filled stainless steel submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Completely stainless steel AISI 304 construction.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- 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).
- 8" NEMA coupling flange.
- Pressure compensation diaphragm.

### Specifications

- Ratings: Three phase - 30 to 110 kW, 50 Hz  
37 to 110 kW, 60 Hz
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60 Hz, 3 phase, 230 V, 380 V, 460 V
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Three phase - CCW and CW
- Maximum nos. of starts/hour:  
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66 to 110 kW - 20
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor:  
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- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x I<sub>n</sub>
- Maximum submerged depth: 200 metres.

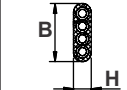
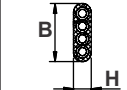
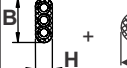
### Special features on request

- Mechanical shaft seal Sic/Sic.
- Built-in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.

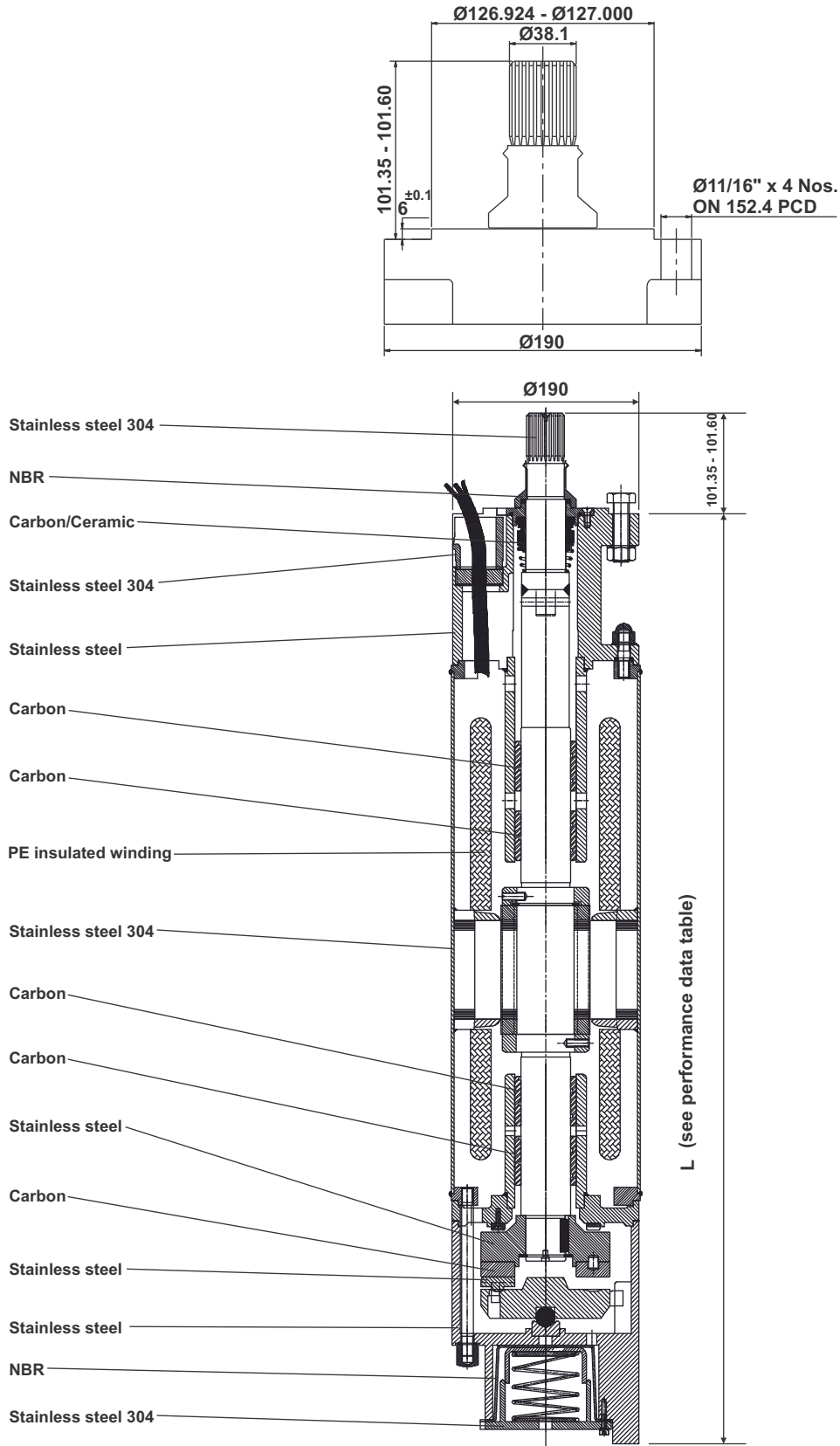
### Datos de cable

### Cable data

### Données de câble

kW	Tipo de arranque Type of start type de debut	Cable x longitud x Tamaño (mm <sup>2</sup> ) Cable x Leads x Size (mm <sup>2</sup> ) Taille des fils X du câble X (² de millimètre)	longitud Length longueur [m]	H x B [mm]	
30 - 93	DOL	1 x 4 x 16	5	14 x 37,6	
110	DOL	1 x 3 x 35 + 1 x 1 x 16	5	15,3 x 35	





### Shaft

Spline shaft: 23 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 8".



### Performance data

# 60 Hz

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min <sup>-1</sup> ]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m <sup>3</sup> ]
	kW	HP						50%	75%	100%	50%	75%	100%				
VSW82502632	37	50	45000	230	149,6	5,76	3480	82,1	83,9	85,0	0,75	0,81	0,84	101,60	1041	166,2	0,1905
VSW82503632				380	89,1	5,75	3500	82,7	84,7	85,4	0,76	0,82	0,85	101,00	1041	166,2	0,1905
VSW82504732				460	72,2	5,75	3480	82,1	84,5	85,0	0,77	0,84	0,87	101,60	1131	182,2	0,2017
VSW82602632	45	60	45000	230	179,8	5,75	3500	83,1	84,9	86,0	0,75	0,81	0,84	122,85	1131	182,2	0,2017
VSW82603632				380	107,6	5,80	3510	83,9	85,7	86,0	0,75	0,81	0,85	122,50	1131	182,2	0,2017
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VSW82902632	66	90	45000	230	254,7	5,75	3500	83,3	86,1	88,0	0,74	0,81	0,85	180,20	1369	213,6	0,2391
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### Features

- 8" Water filled heavy duty submersible motor.
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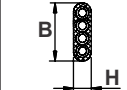
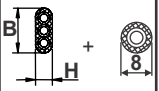
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- Maximum submerged depth: 200 metres.

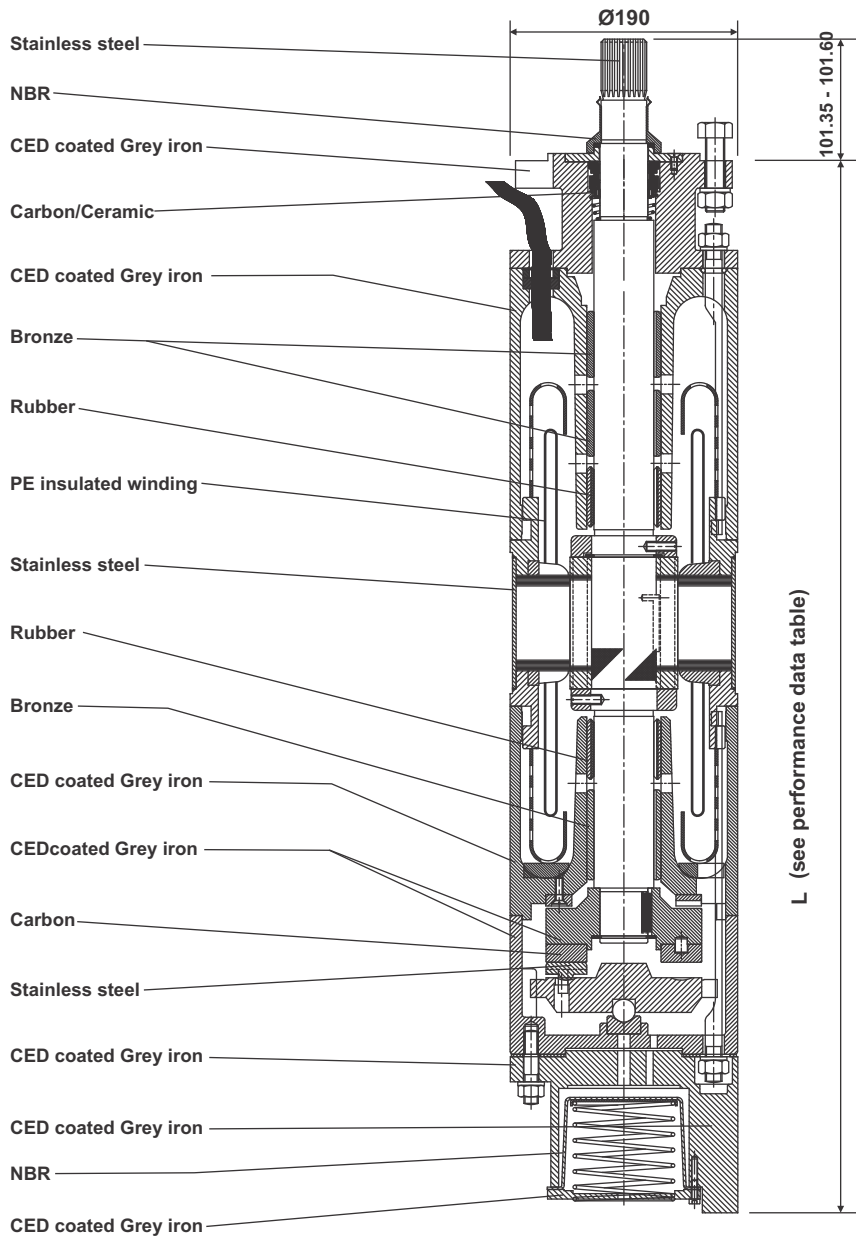
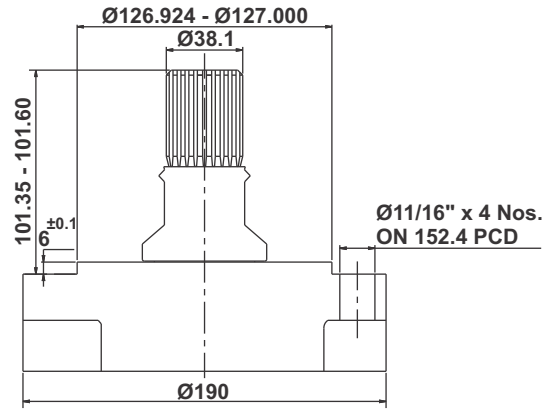
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- Special voltages.
- Double cable for Star - Delta operation.

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110 - 130	DOL	1 x 3 x 35 + 1 x 1 x 16	5	15,3 x 35	





### Shaft

Spline shaft: 23 teeth, 16/32 pitch, module  
 1.5875, 30° pressure angle, coupling tolerance  
 5 as per ANSI B.92.1, confirming with NEMA 8".

### Performance data

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Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min <sup>-1</sup> ]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m <sup>3</sup> ]
	kW	HP						50%	75%	100%	50%	75%	100%				
VHW82404732	30	40	45000	460	57,2	5,76	3480	82,1	84,3	85,0	0,78	0,84	0,89	82,40	1020	172,0	0,1793
VHW82502632	37	50	45000	230	149,6	5,76	3480	82,1	83,9	85,0	0,75	0,81	0,84	101,60	1020	172,0	0,1793
VHW82503632				380	89,1	5,75	3500	82,7	84,7	85,4	0,76	0,82	0,85	101,00	1020	172,0	0,1793
VHW82504732	45	60	45000	460	72,2	5,75	3480	82,1	84,5	85,0	0,77	0,84	0,87	101,60	1110	194,0	0,1943
VHW82602632				230	179,8	5,75	3500	83,1	84,9	86,0	0,75	0,81	0,84	122,85	1110	194,0	0,1943
VHW82603632	55	75	45000	380	107,6	5,80	3510	83,9	85,7	86,0	0,75	0,81	0,85	122,50	1110	194,0	0,1943
VHW82604732				460	86,5	5,80	3500	83,3	85,5	86,3	0,76	0,82	0,87	122,85	1210	214,0	0,2130
VHW82752632	66	90	45000	230	217,3	5,75	3500	83,2	85,3	87,0	0,75	0,80	0,84	150,00	1210	214,0	0,2130
VHW82753632				380	130,0	5,80	3510	84,2	86,1	87,0	0,76	0,82	0,85	149,72	1210	214,0	0,2130
VHW82754732	75	100	45000	460	104,9	5,80	3500	83,7	85,9	87,0	0,76	0,82	0,87	150,00	1260	228,0	0,2204
VHW82902632				230	254,7	5,75	3500	83,3	86,1	88,0	0,74	0,81	0,85	180,20	1427	267,0	0,2430
VHW82903632	83	110	45000	380	152,4	6,00	3510	84,9	87,2	88,0	0,75	0,82	0,86	179,66	1427	267,0	0,2430
VHW82904732				460	124,4	6,00	3500	84,1	86,9	88,0	0,76	0,83	0,87	180,20	1427	267,0	0,2430
VHW83102632	93	125	45000	230	286,1	5,76	3500	83,5	85,9	88,0	0,75	0,82	0,86	204,70	1477	278,0	0,2503
VHW83103632				380	169,2	6,01	3510	85,1	87,3	88,0	0,76	0,84	0,88	204,16	1477	278,0	0,2503
VHW83104732	100	135	45000	460	139,8	6,01	3500	84,2	86,9	88,0	0,77	0,83	0,88	204,70	1477	278,0	0,2503
VHW83122632				230	363,2	5,76	3500	83,7	85,7	88,0	0,75	0,81	0,84	253,80	1617	305,0	0,2690
VHW83123632	110	150	45000	380	216,3	6,01	3510	84,7	87,1	88,4	0,75	0,81	0,85	253,16	1617	305,0	0,2690
VHW83124732				460	174,7	6,01	3500	84,5	86,9	88,3	0,76	0,82	0,87	253,80	1617	305,0	0,2690
VHW83153632	130	175	45000	380	263,0	6,01	3500	82,3	84,7	86,0	0,75	0,81	0,85	300,29	1747	342,0	0,2877
VHW83154732				460	214,0	6,01	3480	82,4	84,9	86,2	0,76	0,82	0,86	302,02	1747	342,0	0,2877
VHW83174732	130	175	45000	460	250,0	6,01	3480	82,6	85,0	86,3	0,77	0,83	0,87	356,93	1947	388,0	0,3213

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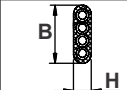
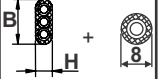
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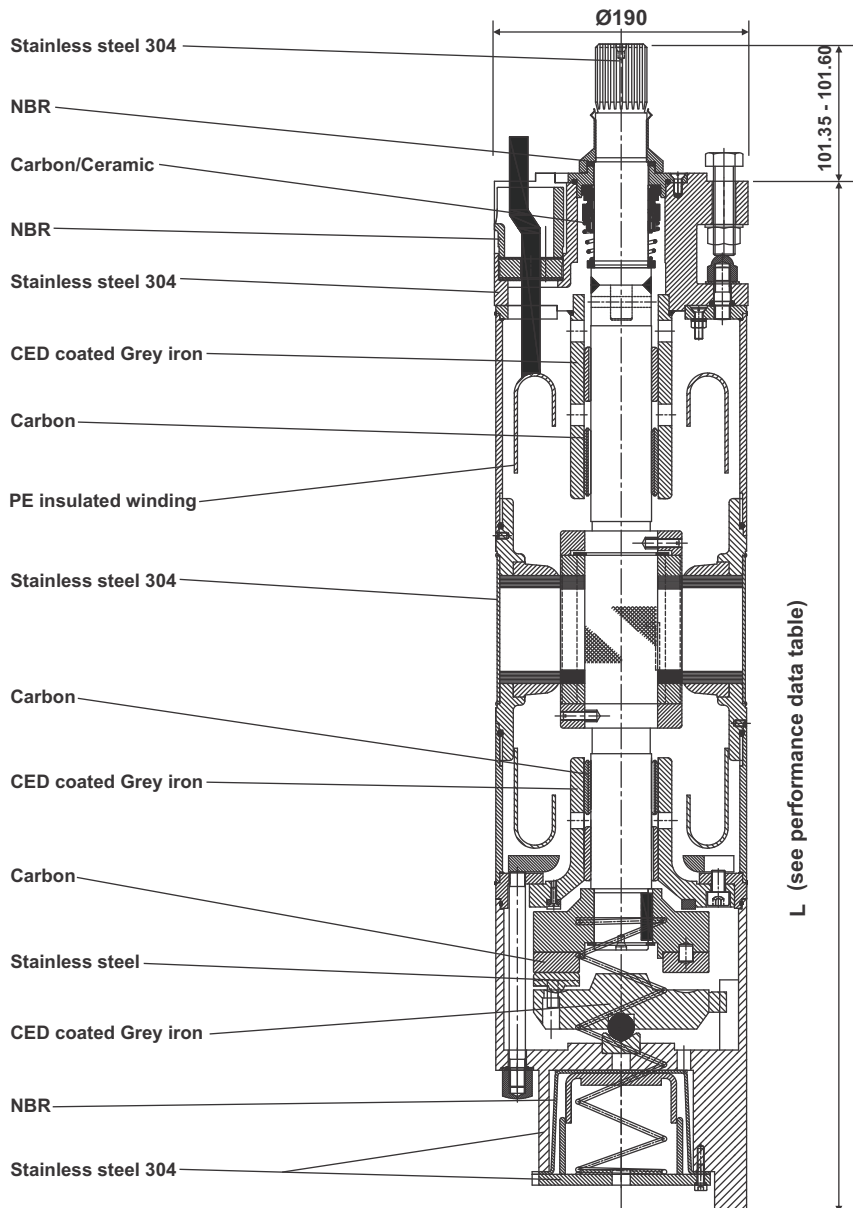
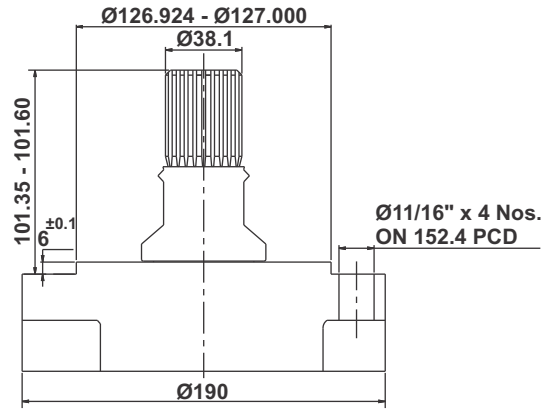
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- Water pH: 6,5 - 8
- Minimum cooling flow along the motor:  
30 to 37 kW - 30 cm/sec  
45 to 130 kW - 45 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 200 metres.

### Special features on request

- Mechanical shaft seal Sic/Sic.
- Built-in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.

### Cable data

kW	Type of start	Cable x Leads x Size (mm <sup>2</sup> )	Length [m]	H x B [mm]	
30 - 93	DOL	1 x 4 x 16	5	14 x 37,6	
110 - 130	DOL	1 x 3 x 35 + 1 x 1 x 16	5	15,3 x 35	



### Shaft

Spline shaft: 23 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 8".

Performance data

## 60 Hz

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min <sup>-1</sup> ]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Volume brut [m <sup>3</sup> ]
	kW	HP						50%	75%	100%	50%	75%	100%				
VXW82404732	30	40	45000	460	57,2	5,76	3480	82,1	84,3	85,0	0,78	0,84	0,89	82,40	1069	183,0	0,1900
VXW82502632	37	50	45000	230	149,6	5,76	3480	82,1	83,9	85,0	0,75	0,81	0,84	101,60	1069	183,0	0,1900
VXW82503632				380	89,1	5,75	3500	82,7	84,7	85,4	0,76	0,82	0,85	101,00	1069	183,0	0,1900
VXW82504732	45	60	45000	460	72,2	5,75	3480	82,1	84,5	85,0	0,77	0,84	0,87	101,60	1159	205,0	0,2100
VXW82602632				230	179,8	5,75	3500	83,1	84,9	86,0	0,75	0,81	0,84	122,85	1159	205,0	0,2100
VXW82603632	55	75	45000	380	107,6	5,80	3510	83,9	85,7	86,0	0,75	0,81	0,85	122,50	1159	205,0	0,2100
VXW82604732				460	86,5	5,80	3500	83,3	85,5	86,3	0,76	0,82	0,87	122,85	1259	228,0	0,2200
VXW82752632	66	90	45000	230	217,3	5,75	3500	83,2	85,3	87,0	0,75	0,80	0,84	150,00	1259	228,0	0,2200
VXW82753632				380	130,0	5,80	3510	84,2	86,1	87,0	0,76	0,82	0,85	149,72	1259	228,0	0,2200
VXW82754732	75	100	45000	460	104,9	5,80	3500	83,7	85,9	87,0	0,76	0,82	0,87	150,00	1309	240,0	0,2300
VXW82902632				230	254,7	5,75	3500	83,3	86,1	88,0	0,74	0,81	0,85	180,20	1398	249,0	0,2400
VXW82903632	83	110	45000	380	152,4	6,00	3510	84,9	87,2	88,0	0,75	0,82	0,86	179,66	1398	249,0	0,2400
VXW82904732				460	124,4	6,00	3500	84,1	86,9	88,0	0,76	0,83	0,87	180,20	1398	249,0	0,2400
VXW83102632	93	125	45000	230	286,1	5,76	3500	83,5	85,9	88,0	0,75	0,82	0,86	204,70	1448	261,0	0,2500
VXW83103632				380	169,2	6,01	3510	85,1	87,3	88,0	0,76	0,84	0,88	204,16	1448	261,0	0,2500
VXW83104732	110	150	45000	460	139,8	6,01	3500	84,2	86,9	88,0	0,77	0,83	0,88	204,70	1448	261,0	0,2500
VXW83122632				230	363,2	5,76	3500	83,7	85,7	88,0	0,75	0,81	0,84	253,80	1588	293,0	0,2700
VXW83123632	130	175	45000	380	216,3	6,01	3510	84,7	87,1	88,4	0,75	0,81	0,85	253,16	1588	293,0	0,2700
VXW83124732				460	174,7	6,01	3500	84,5	86,9	88,3	0,76	0,82	0,87	253,80	1588	293,0	0,2700
VXW83153632	150	200	45000	380	263,0	6,01	3500	82,3	84,7	86,0	0,75	0,81	0,85	300,29	1718	323,0	0,2900
VXW83154732				460	214,0	6,01	3480	82,4	84,9	86,2	0,76	0,82	0,86	302,02	1718	323,0	0,2900
VXW83174732	130	175	45000	460	250,0	6,01	3480	85,0	85,0	86,3	0,77	0,83	0,87	356,93	1918	370,0	0,3200

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

