

## 4" Three-phase Oil-cooled ZDS Motors

### Quality in the Well

OT motors are ZDS three-phase submersible motors, cooled by special food grade lubricant, suitable for 4" wells or larger. All motors are manufactured to ISO 9001 standards.



#### Standard

- 0,37 - 5,5 kW
- 3 x 380V-415V
- Voltage tolerance: +6% / -10%  $U_N$
- Thrust capacity: 1.500N; 2.500N; 4.500N

#### Pump Protector – DRP will protect the motor from:

- Dry running (with automatic restart).
- Frequent starts and stops.
- Overload & surges, such as from lighting.
- Low voltage protection.

#### Specifications

- 4" NEMA standard dimensions
  - **Stainless Steel Motor Casing**
  - **Ball Bearing for axial and radial trust**
  - **Degree of protection: IP68**
  - **Insulation: Cl. F**
  - **Rated Ambient temp.:** max. 40°C
  - **Maximum Immersion depth:** 150m
  - **Cooling flow:** min 8 cm/sec
  - **Starts/h:** 150
  - **Mounting:** vertical/horizontal
  - **100% of motors are fully tested to all specifications**
- For motors without the DRP an overload protection and a control unit to start and run the motor must be installed according to eN 60947-4-1 trip time < 10 sec. at  $5 \times I_N$



## OT - 380-415 V

50Hz n~2850 min <sup>-1</sup>	OT – THREE-PHASE OIL-FILLED													
	Code	Cable (m)	V	Power		Thrust (N)	n <sub>n</sub> (min <sup>-1</sup> )	I <sub>n</sub> (A)	I <sub>start</sub> (A)	η eff (%)	Cos φ (P.f)	T <sub>start</sub> T <sub>n</sub>	L (mm)	W (kg)
				[kW]	[HP]									
OT.037.15.DRP	184198010S	2	380-415	0,37	0,5	1500	2865-2885	1,5 - 1,7	6,5 - 7,4	58	0,66 - 0,56	4,1	313	8,1
OT.037.15	184198010L	1,5												7,5
OT.037.15.NC	184198010	0												
OT.055.15.DRP	184198015S	2	380-415	0,55	0,75	1500	2820-2855	1,6 - 1,8	7,6 - 8,3	64	0,77 - 0,67	3	324	8,6
OT.055.15	184198015L	1,5												8,0
OT.055.15.NC	184198015	0												
OT.075.15.DRP	184198020S	2	380-415	0,75	1	1500	2820-2850	2,3 - 2,6	10,3 - 11,2	66	0,75 - 0,63	3,2	339	9,3
OT.075.15	184198020L	1,5												8,8
OT.075.15.NC	184198020	0												
OT.110.25.DRP	184198025S	2	380-415	1,1	1,5	2500	2815-2840	3,1 - 3,6	14,0 - 15,2	69	0,76 - 0,64	3,7	364	11,0
OT.110.25	184198025L	1,5												9,9
OT.110.25.NC	184198025	0												
OT.150.25.DRP	184198030S	3	380-415	1,5	2	2500	2815-2840	4,1 - 4,6	19,6 - 21,4	71	0,77 - 0,66	3,7	399	12,6
OT.150.25	184198030L	2,5												11,6
OT.150.25.NC	184198030	0												
OT.150.45.DRP	184198035S	3	380-415	1,5	2	4500	2815-2840	4,1 - 4,6	19,6 - 21,4	71	0,77 - 0,66	3,7	422	13,1
OT.150.45	184198035L	2,5												12,2
OT.150.45.NC	184198035	0												
OT.220.25.DRP	184198040S	3	380-415	2,2	3	2500	2832-2865	5,2 - 5,4	24,2 - 27,0	74	0,86 - 0,76	2,2	434	14,1
OT.220.25	184198040L	2,5												13,1
OT.220.25.NC	184198040	0												
OT.220.45.DRP	184198045S	3	380-415	2,2	3	4500	2832-2865	5,2 - 5,4	24,2 - 27,0	74	0,86 - 0,76	2,2	457	14,8
OT.220.45	184198045L	2,5												13,8
OT.220.45.NC	184198045	0												
OT.300.25.DRP	184198050S	3	380-415	3	4	2500	2820-2855	7,0 - 7,2	33,7 - 36,8	75	0,85 - 0,76	3,2	434	14,9
OT.300.25	184198050L	2,5												13,9
OT.300.25.NC	184198050	0												
OT.300.45.DRP	184198055S	3	380-415	3	4	4500	2820-2855	7,0 - 7,2	33,7 - 36,8	75	0,85 - 0,76	3,2	457	15,5
OT.300.45	184198055L	2,5												14,5
OT.300.45.NC	184198055	0												
OT.400.25.DRP	184198060S	3	380-415	4	5,5	2500	2825-2860	9,3 - 9,8	42,9 - 46,8	76	0,84 - 0,75	2,8	484	17,4
OT.400.25	184198060L	2,5												16,3
OT.400.25.NC	184198060	0												
OT.400.45.DRP	184198065S	3	380-415	4	5,5	4500	2825-2860	9,3 - 9,8	42,9 - 46,8	76	0,84 - 0,75	2,8	507	18,0
OT.400.45	184198065L	2,5												16,9
OT.400.45.NC	184198065	0												
OT.550.45	184198070L	2,5	380-415	5,5	7,5	4500	2820-2850	12,2 - 12,6	56,8 - 62,0	78	0,80 - 0,70	2,7	572	20,5
OT.550.45.NC	184198070	0												

\*Motors with .NC ending has no cable. Please see page 29 or 30 for cable options.

Pos.	COMPONENTS	MATERIAL
1	Shaft	Stainless steel AISI 303
2	Top bracket	G20 Cast Iron Nickel plated
3	Bottom bracket	Cast Iron G20
4	Upper bearing	Steel
5	Lower bearing	Steel
6	Motor casing	Stainless steel AISI 304
7	Mechanical seal	Graphite / Ceramic
8	Bottom cover	Stainless steel AISI 304
9	O-Ring	NBR
10	Diaphragm	NBR
11	Cooling liquid	Food grade lubricant

