WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

Technical Specifications

Nominal Dia	**10"**
Maximum Outer Diameter	232 mm
Power Range	110 - 185 kW - Three Phase
Speed	2900 rpm
Version	Three Phase - 380-415V, 50Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP68
Direction of Rotation	Electrically Reversible
Type of Duty	S1 (Continuous)
Down Thrust Load	75000 N
Minimum Cooling Flow Along the Motor	0.16 m/sec
Maximum Liquid Temperature	Standard - 35°C, Optional : High Temp - 50°C
Max. Starts per Hour	8 Times
Shaft End	Splines / Keyway
Method of Starting	Direct On Line (DOL)
	Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 6 Core EPDM insulated Flat Cable for SD & 2 + 2 core individual lead for DOL
Thermal Protection	Optional - PT 100 Sensor

* Optional : Fluoroelastomer Polymer (Fkm - Viton)

Material of Construction

PART NAME	MATERIAL - W10B		
	EUROPEAN	DIN	AISI / SAE
Thrust Base Housing, Upper & Lower Housing	Cast Iron - EN-GJL-250	GG25	ASTM A48 Class 30B
Thrust Pad	X12 Cr14 with Graphite Carbon	1.4008 with Graphite Carbon	ASTM A743 CA15 with Graphite Carbon
Thrust Base	Cast Iron - EN-GJL-250 Base with X20Cr14 Segment	GG25 Base with 1.4027 Segment	ASTM A48 Class 30B Base with ASTM A743 CA40 Segment
Bush Bearing	Graphite Carbon	Graphite Carbon	Graphite Carbon
Diaphragm	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)
O Ring & Oil seal	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)
Shaft Seal	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)
Stator Shell	X5CrNi 18 9	1.4301	ASTM A240 AISI 304
Shaft	EN8 with X17CrNi 16 2 Sleeve	CK45 (1.1191) with 1.4057 sleeve	ASTM A29 AISI 1045 with ASTM A276 AISI 431 Sleeve
Sand Guard (Stainless Steel & Rubber)	X5CrNi 18 9 & NBR (Buna - N)	1.4301 &NBR (Buna - N)	ASTM A240 AISI 304 & NBR (Buna - N)
Shaft extention	X12 Cr13	1.4006	ASTM A276 AISI 410

In view of continuous developments, the informations / descriptions / specifications / illustrations are subject to change without notice.
Refer general information for performance curve conditions and for other details. Curve tolerance according to ISO : 9906, Grade 3B.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

Material of Construction

PART NAME	MATERIAL - W10S		
	EUROPEAN	DIN	AISI/SAE
Thrust Base Housing, Upper & Lower Housing	X5CrNi 18 10	1.4308	ASTM A351 CF8
Thrust Pad	X12 Cr14 with Graphite Carbon	1.4008 with Graphite Carbon	ASTM A743 CA15 with Graphite Carbon
Thrust Base	Cast Iron - EN-GJL-250 Base with X20Cr14 Segment	GG25 Base with 1.4027 Segment	ASTM A48 Class 30B B Base with ASTM A743 CA40 Segment
Bush Bearing	Graphite Carbon	Graphite Carbon	Graphite Carbon
Diaphragm	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)
O Ring & Oil seal	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)
Shaft Seal	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)
Stator Shell	X5CrNi 18 9	1.4301	ASTM A240 AISI 304
Shaft	EN8 with X17CrNi 16 2 Sleeve	CK45 (1.1191) with 1.4057 sleeve	ASTM A29 AISI 1045 with ASTM A276 AISI 431 Sleeve
Sand Guard (Stainless Steel & Rubber)	X5CrNi 18 9 & NBR (Buna - N)	1.4301 & NBR (Buna - N)	ASTM A240 AISI 304 & NBR (Buna - N)
Shaft extention	X12 Cr13	1.4006	ASTM A276 AISI 410

Material of Construction

PART NAME	MATERIAL - W10T		
	EUROPEAN	DIN	AISI / SAE
Thrust Base Housing, Upper & Lower Housing	X5CrNiMo 18 10	1.4408	ASTM A351 CF8M
Thrust Pad	X12 Cr14 with Graphite Carbon	1.4008 with Graphite Carbon	ASTM A743 CA15 with Graphite Carbon
Thrust Base	Cast Iron - EN-GJL-250 Base with X20Cr14 Segment	GG25 Base with 1.4027 Segment	ASTM A48 Class 30B Base with ASTM A743 CA40 Segment
Bush Bearing	Graphite Carbon	Graphite Carbon	Graphite Carbon
Diaphragm	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)	HNBR (ASTM -D2000)
O Ring & Oil Seal	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)	Standard - NBR (Buna - N) Optional : Fluoroelastomer Polymer (FKM - Viton)
Shaft Seal	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)	Mechanical Seal (Carbon & Ceramic)
Stator Shell	X5CrNiMo 18 10	1.4401	ASTM A240 AISI 316
Shaft	EN8 with X17CrNi 16 2 Sleeve	CK45 (1.1191) with 1.4057 sleeve	ASTM A29 AISI 1045 with ASTM A276 AISI 431 Sleeve
Sand Guard (Stainless Steel & Rubber)	X5CrNiMo 18 10 & NBR (Buna - N)	1.4401 & NBR (Buna - N)	ASTM A240 AISI 316 & NBR (Buna - N)
Shaft extention	X12 Cr13	1.4006	ASTM A276 AISI 410

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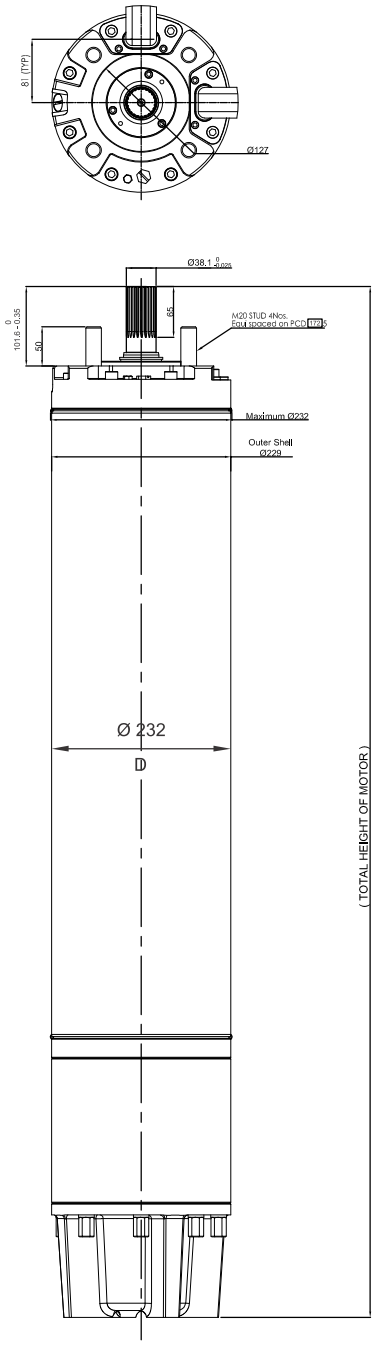
Nominal Diameter : **10"**

"W" Series

General Arrangement Drawing(GAD)

SPLINES TYPE



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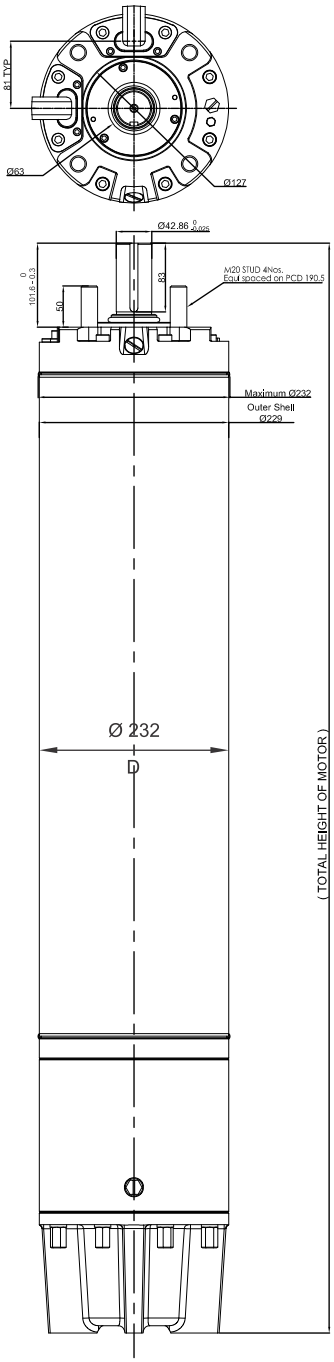

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

Electrical Data

10" THREE PHASE - 380 - 415V DOL & SD MOTORS

Model		Power		Full Load Max (A)	Starting Current (A)	Full Load		Max. Down Thrust Load (N)
DOL	SD	kW	HP			Eff.%	Power Factor	
W10B-A10T	W10B-A10D	110	150	220	1326	87	0.89	75000N
W10B-A30T	W10B-A30D	130	175	255	1628	87	0.89	75000N
W10B-A50T	W10B-A50D	150	200	290	1813	88	0.89	75000N
W10B-A65T	W10B-A65D	165	225	315	2043	88	0.88	75000N
W10B-A85T	W10B-A85D	185	250	330	2343	89	0.88	75000N

DIMENSIONS AND WEIGHT DATA

Model		Power		Method of Starting	Dimension (mm)		Net Weight (kg)	Cable Leadout		
								Cable Size(Sq.mm)		Cable Length (m)
DOL	SD	kW	HP		D	H1		D.O.L	S.D	
W10B-A10T	W10B-A10D	110	150	T/D	232	1642	319	50	16	5
W10B-A30T	W10B-A30D	130	175	T/D	232	1752	340	50	25	5
W10B-A50T	W10B-A50D	150	200	T/D	232	1822	366	70	35	5
W10B-A65T	W10B-A65D	165	225	T/D	232	1902	387	95	35	5
W10B-A85T	W10B-A85D	185	250	T/D	232	1992	425	95	35	5

*** METHOD OF STARTING : T -** 3P / DOL / 50Hz **D -** 3P / SD / 50Hz