

SD系列  
喷泉专用潜水电机  
50 Hz



**DESHB**  
—德士比—

**THE EXPERT OF FOUNTAIN PUMP**  
喷泉专用泵制造与应用方案解决专家  
**MANUFACTURE AND APPLICATION**



- Motors are designed with quality material and unique features to assure years of dependable operation.**
- NEMA Standard flange connector.**
- Oil-filled motor keeps windings cool, permanently lubricated bearings to provide reliable pump service.**
- Watertight double-insulated cable entry system prevents capillary action and protects against moisture.**
- A rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of oil inside the motor.**

## Specification

- **Insulation class: F**
- **Protection class: IP68**
- **Water temperature: up to 36°C**
- **PH: 6.5 – 8.0.**
- **Maximum No.of starts per hour:30**
- **Maximum immersion depth: 150 m.**
- **Fluid-lubricated thrust bearings.**
- **Lip seal protected by sand guard.**
- **Fitted with watertight connector.**
- **Power: single-phase:0.37 kW – 2.2kW**  
**three-phase: 0.37 kW – 7.5 kW.**
- **Power supply:**
  - single-phase 230V± 10%,50Hz. 220V± 10%,60Hz**
  - three-phase 230V± 10%,50Hz. 220V± 10%,60Hz**
  - three-phase 400V± 10%,50Hz. 380V± 10%,60Hz**

**Special features on request**

- Other voltages
- The length of cable is optional

### Plug-In Type Connection

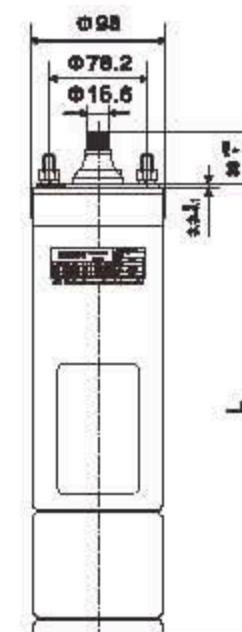
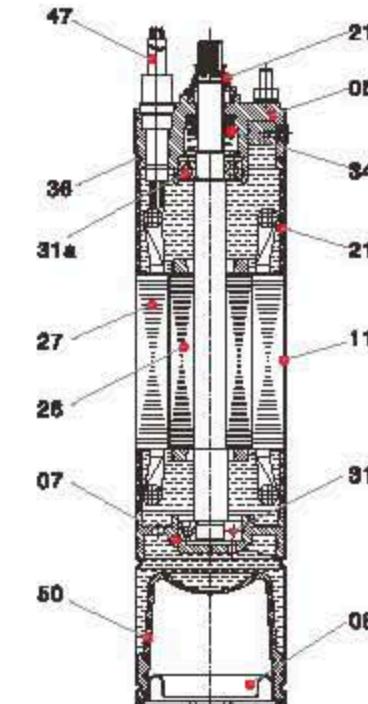


### Type A

#### Seal type cable connection



### Type B



## Materials of construction

Item No.	Part name	Material
06	Upper support	Cast-Cu
07	Bearing house	Aluminum die casting
08	End cover	AISI304SS
11	Motor casing	AISI304SS
21a	Send guard	NBR
21b	Guard ring	Plastic
27	Stator	
28	Rotor	(Shaft: AISI 304SS)
31a	Bearing	Ball Bearing
31b	Bearing	Angular contact bearing
34	Mechanical seal	Carbon-Ceramic
36	Oting	NBR
47	Cable	
50	Pressure regulator	NBR

## Dimensions & weights

Model	Motor power		50Hz/60Hz			Packing dimension (mm)	
	KW	HP	L mm	N.W kg	G.W kg		
Single phase	4SDM 0.37	0.37	0.5	333	7.6	8.1	400x120x150
	4SDM 0.55	0.55	0.75	353	9.3	9.9	420x120x150
	4SDM 0.75	0.75	1	378	9.0	9.7	445x120x150
	4SDM 1.1	1.1	1.5	442	11.0	11.7	510x120x150
	4SDM 1.5	1.5	2	472	12.4	13.2	540x120x150
	4SDM 2.2	2.2	3	517	14.8	15.9	580x120x150
Three phase	4SD 0.37	0.37	0.5	333	6.5	7.1	385x120x150
	4SD 0.55	0.55	0.75	333	7.3	7.9	400x120x160
	4SD 0.75	0.75	1	383	8.7	9.6	430x120x150
	4SD 1.1	1.1	1.5	407	9.7	10.4	475x120x150
	4SD 1.5	1.5	2	442	11.1	11.8	510x120x150
	4SD 2.2	2.2	3	502	13.8	14.8	570x120x150
	4SD 3	3	4	562	16.5	17.7	620x120x150
	4SD 4	4	5.5	602	19.0	20.2	670x120x150
	4SD 5.5	5.5	7.5	748	27.3	28.5	800x120x150
	4SD 7.5	7.5	10	853	31.4	32.8	900x120x150



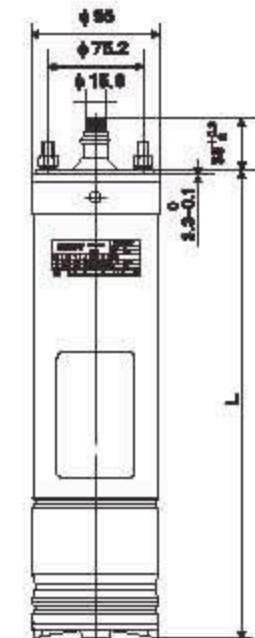
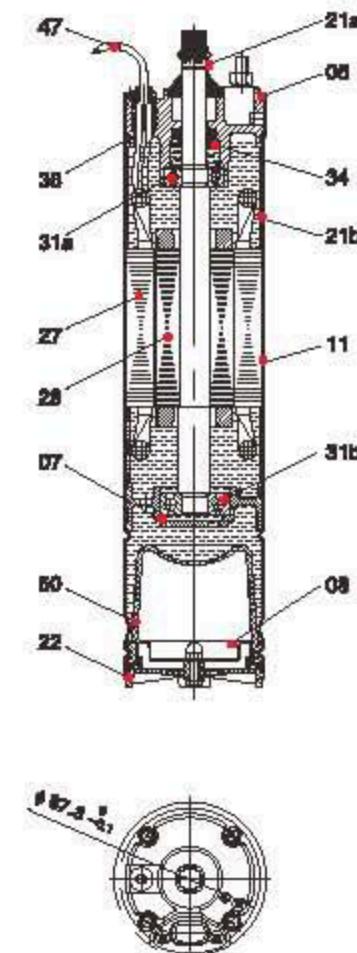
Motors are designed with quality material and unique features to assure years of dependable operation.  
**NEMA Standard flange connector.**  
**Oil-filled motor keeps windings cool, permanently lubricated bearings to provide reliable pump service.**  
**Watertight double-insulated cable entry system prevents capillary action and protects against moisture.**  
**A rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of oil inside the motor.**

#### Specification

- **Insulation class: F**
- **Protection class: IP68.**
- **Water temperature: up to 35°C**
- **PH: 6.5 – 8.0.**
- **Maximum No. of starts per hour:30**
- **Maximum Immersion depth: 150 m.**
- **Fluid-lubricated thrust bearings.**
- **Lip seal protected by sand guard.**
- **Fitted with watertight connector.**
- **Power: single-phase: 0.37 kW~2.2 kW  
three-phase: 0.37 kW~7.5 kW.**
- **Power supply:**
  - **single-phase 230V±10%, 50Hz. 220V±10%, 60Hz**
  - **three-phase 230V±10%, 50Hz. 220V±10%, 60Hz**
  - **three-phase 400V±10%, 50Hz. 380V±10%, 60Hz**
- **Axial load: 1500 N(0.37 kW~0.75 kW);  
2500N(1.1 kW~2.2 kW).  
4500N(3 kW~4 kW).  
8000N(5.5kW~7.5kW)**

#### Special features on request

- **Other voltages**
- **The length of cable is optional**
- **Motor adapter : AISI304SS**



#### Materials of construction

Item No.	Part name	Material
06	Upper support	Cast-Cu
07	Bearing house	Aluminum die casting
08	End cover	AISI304SS
11	Motor casing	AISI304SS
21a	Sand guard	NBR
21b	Guard ring	Plastic
22	End Plate	ABS
27	Stator	
28	Rotor	(Shaft : AISI 304SS)
31a	Bearing	Ball Bearing
31b	Bearing	Angular contact bearing
34	Mechanical seal	Carbon-Ceramic
38	O-ring	NBR
47	Cable	
50	Pressure regulator	NBR

#### Dimensions & weights

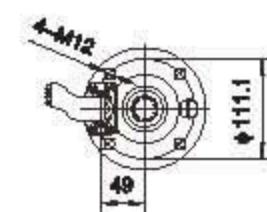
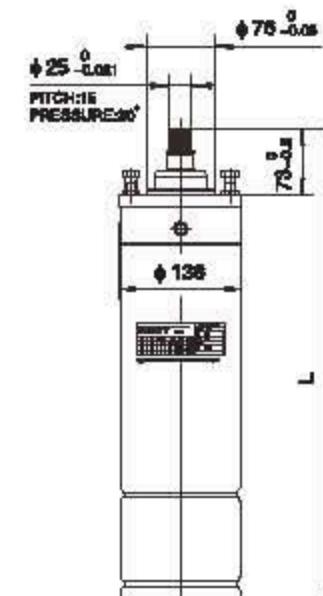
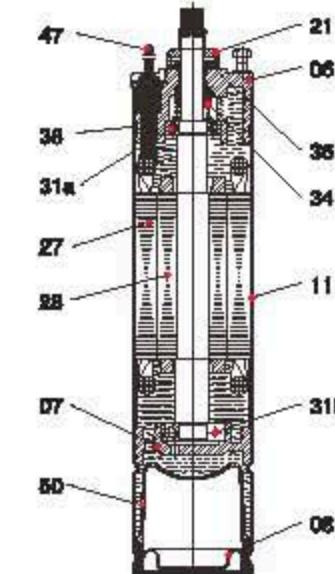
Model	Motor power		50Hz/60Hz			Packing dimension (mm)	
	kW	HP	L mm	N.W kg	G.W kg		
Single phase	4SDM0.37	0.37	0.5	346	8.2	8.8	410x120x150
	4SDM0.55	0.55	0.75	388	9.0	9.6	420x120x150
	4SDM0.75	0.75	1	391	9.75	10.5	460x120x150
	4SDM1.1	1.1	1.5	436	10.7	11.4	510x120x150
	4SDM1.5	1.5	2	486	12.1	12.9	540x120x150
	4SDM2.2	2.2	3	510	14.5	15.8	590x120x150
Three phase	4SD0.37	0.37	0.5	346	7.0	7.6	400x120x150
	4SD0.55	0.55	0.75	348	8.0	8.7	410x120x150
	4SD0.75	0.75	1	378	9.4	10.1	440x120x150
	4SD1.1	1.1	1.5	400	9.7	10.8	475x120x150
	4SD1.5	1.5	2	436	10.8	11.5	510x120x150
	4SD2.2	2.2	3	496	13.5	14.5	570x120x150
	4SD3	3	4	545	16.3	17.4	620x120x150
	4SD4	4	5.5	586	18.7	19.9	670x120x150
	4SD5.5	5.5	7.5	739	27.0	28.2	800x120x150
	4SD7.5	7.5	10	846	31.1	32.5	900x120x150



Motors are designed with high quality material and unique features to assure years of dependable operation.  
 NEMA Standard flange connector.  
 Oil-filled motor keeps windings cool, permanently lubricated bearings to provide reliable pump service.  
 Watertight double-insulated cable entry system prevents capillary action and protects against moisture.  
 A rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of oil inside the motor.

### Specification

- Power: three phase, 4kw~18.5kw
- Power supply: three phase, 400V  $\pm 10\%$ , 50Hz, direct start
- Protection class: IP68
- Insulation class: F
- Water temperature: up to 35°C
- pH: 6.5~8.0
- Minimum water flux through motor: 10cm /s
- Maximum No. of starts per hour: 20
- Maximum submerged depth: 160m
- Mounting Position: Vertical
- Fluid-lubricated thrust ball axial bearing
- Axial Load: 10,000N(4kW~9.2kW)  
20,000N(11kW~18.5kW)
- Water proof connect cable: 3x6.0mm<sup>2</sup>



### Materials of construction

Item No.	Part name	Material
06	Upper Support	Cast Iron
07	Bearing house	Cast Iron
08	Under cover	AISI304SS
11	Motor casting	AISI304SS
21	Sand guard	NBR
27	Stator	
28	Rotor	Shaft: AISI304SS
31a,b	Bearing	
34	Mechanical seal	Sic-Sic
35	Oil seal	
36	O-ring	NBR
47	Cable	
50	Pressure regulator	NBR

### Dimensions & weights

Model	Motor power			Rated current	L	N.W.G.W	Packing dimension
	KW	HP	A				
6SD4	4	5.5	10.5	645	31.5	34	690×180×210
6SD6.5	5.5	7.5	12.3	675	34	37	720×180×210
6SD7.5	7.5	10	18.5	710	37	39.5	755×180×210
6SD9.2	9.2	12.5	20.2	755	41	43.5	800×180×210
6SD11	11	15	23.6	805	44.5	47	850×180×210
6SD13	13	17.5	27.6	835	47.5	50.5	880×180×210
6SD15	15	20	31.3	880	52	55	925×180×210
6SD18.5	18.5	25	35.2	930	58	59.5	975×180×210

## 典型应用案例



广州亚运会喷泉



徐州彭城广场喷泉



清远大型音乐喷泉



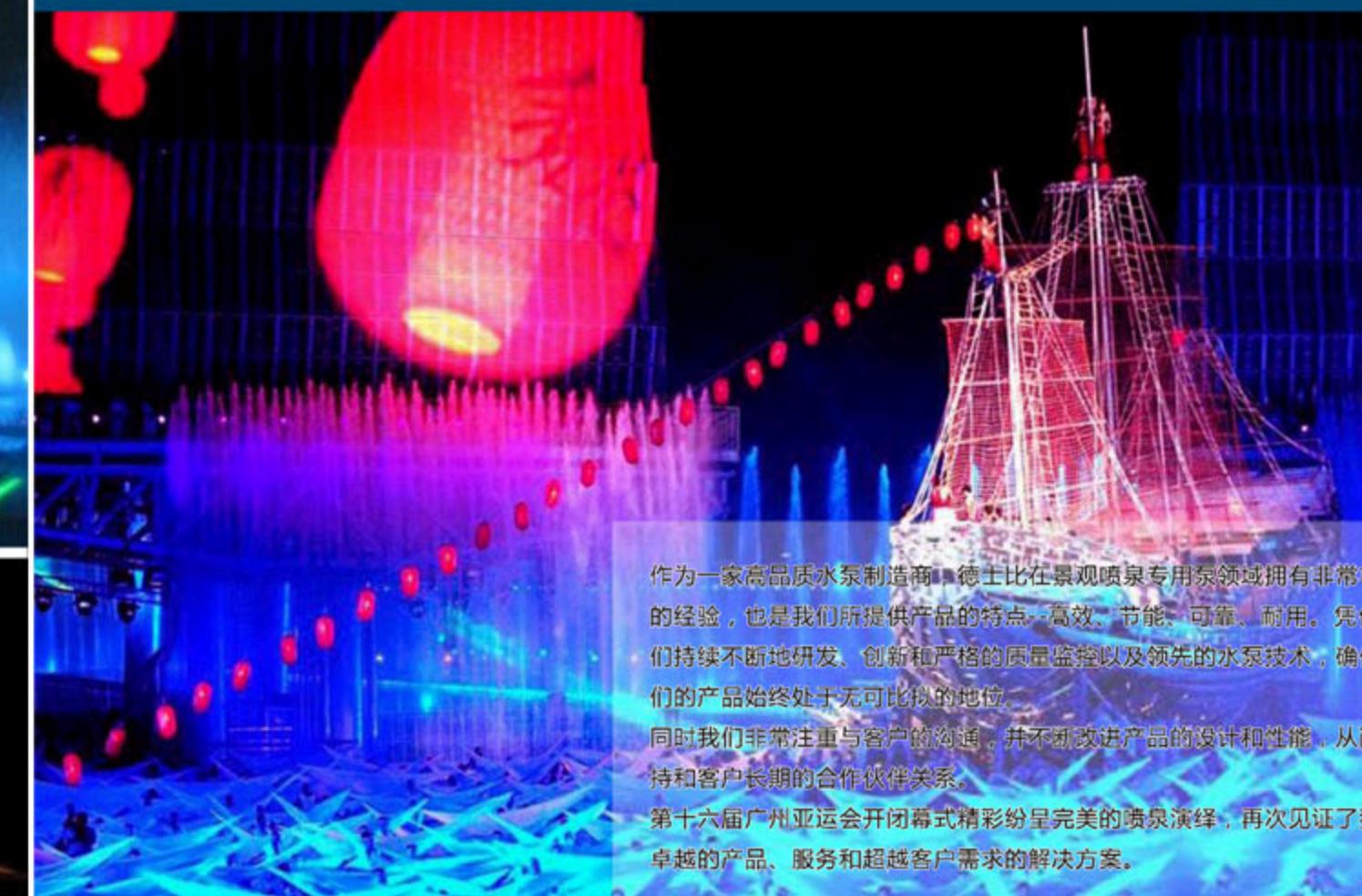
广州大学城喷泉



珠海海洋公园喷泉

喷泉专用泵

**DESH**



作为一家高品质水泵制造商，德士比在景观喷泉专用泵领域拥有非常丰富  
的经验，也是我们所提供产品的特点--高效、节能、可靠、耐用。凭借我  
们持续不断地研发、创新和严格的质量监控以及领先的水泵技术，确保我  
们的产品始终处于无可比拟的地位。

同时我们非常注重与客户的沟通，并不断改进产品的设计和性能，从而保  
持和客户长期的合作伙伴关系。

第十六届广州亚运会开闭幕式精彩纷呈完美的喷泉演绎，再次见证了我们  
卓越的产品、服务和超越客户需求的解决方案。

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