



## Submersible Sump Pump

(Semi-open Impeller) in Cast Iron ————— Type DSF

### APPLICATIONS

- Purification tank drainage
- Rain and spring water drainage
- Water supply

### TECHNICAL DETAILS

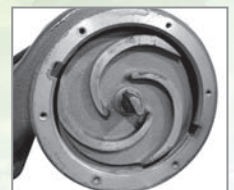
- Efficient semi-open impeller
- Strainer prevents blockages

### TECHNICAL DATA

- Maximum temperature of the liquid: 40°C
- Max solids size for passage : 6 mm (40DSF 1.1, 1.8 kW)  
7 mm (40DSF 5.7 kW)  
10 mm (65DSF)
- 2 poles motor
- Insulation class H
- Degree protection :IP68
- 230±10%, 50Hz single-phase voltage  
400/690±10%, 50Hz three-phase voltage
- Flanges: DN40, DN65
- Power up to 15.9kW

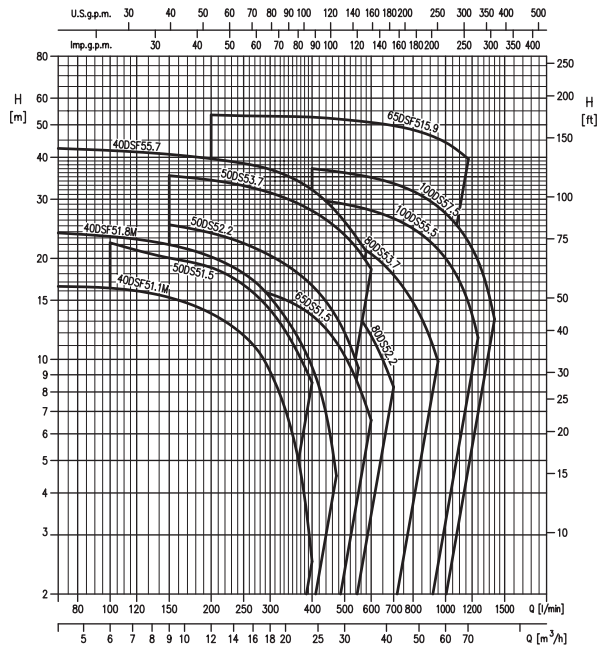
### MATERIALS

- Pump body, semi-open impeller, elbow in cast iron
- Shaft in AISI 420B
- Mechanical seal : SiC/SiC/NBR (pump side)  
Carbon/Ceramic/NBR (motor side)

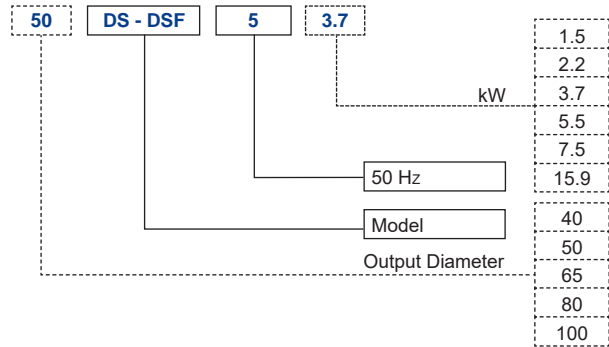


Impeller

## PERFORMANCE CHART



### PUMP IDENTIFICATION CODE



## SPECIFICATIONS

PUMP			
Liquid Handled	Type of liquid	Dirty water	
	Max Temperature [°C]	40°	
	Max solids size [mm]	6 40DSF 1.1, 1.8 kW 7 40DSF 5.7 kW 10 65DSF	
Maximum Submergence	[m]	20	
Minimum Submergence	[m]	Refer to water level (L.W.L) and usage restriction in dimensions.	
Construction	Impeller	Semi - open (with strainer)	
	Shaft seal type	Oil lubricated, single spring double mechanical seal + Lip seal (up to 1.8 kW) Oil lubricated, single spring double mechanical seal	
Connection	Suction [mm]	Strainer	
	Discharge [mm]	Flange DN 40 Flange DN 65 according to EN 1092-2	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Suction cover	Cast iron	
	Shaft	AISI 420B	
	Motor frame	Cast iron	
	Fasteners	AISI 304	
Mechanical seal		Carbon/Ceramic/NBR SiC/SiC/NBR Lubricant: AGIP ITE 360	Motor side Impeller side 5.7 kW and above
	Standard	Screwed flange square type (up to DN 40 discharge) Discharge threaded elbow (up to DN 40 discharge) Discharge elbow "hose" type (DN 65 discharge) Quick discharge connector (QDC): PA type	
Applicable standard of test		ISO 9906 Annex A	
MOTOR			
Type		Single-phase	Three-phase
No. of Poles		air-filled dry submersible	
Rotation speed [min <sup>-1</sup> ]		2	
Insulation Class		~ 2850	
Protection degree		H	
Power Rating [kW]		1.1 + 1.8	5.7 + 15.9
Frequency [Hz]		IP 68	
Voltage [V]		50 -5/+3 %	
Starting		230 ±10%	400/690 ±10%
Over load Protection		DOL	DOL - Y/Δ
Humidity probe		Built-in motor protector	Built-in heat probe
Floating switch		-	Yes
Cable	Material	Yes	
	Length [m]	H07RN-F	
	Size [mm <sup>2</sup> ]	10	
Bearings		3G1.5	12G1.5
		Permanently lubricated single row ball bearings	

\* Dimensional details are provided for reference only.

\* All specifications are subject to change without prior notice.



**EBARA Pumps Malaysia Sdn Bhd**  
 6, Jalan TP3, UEP Subang Jaya Industrial Park,  
 47620 Subang Jaya, Selangor, Malaysia.  
 Tel : 03-8023 6622 Fax : 03-8023 9355  
 Email : sales.epm@ebaracom.com  
 Website : www.ebaracom.my



Authorised dealer: