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**DARLING**  
PUMPS GROUP **DARLING**  
**PUMPS**

Designing SMART pumping solutions...

# DS - SERIES

## Multipurpose Dewatering Pumps...

BASEMENT  
DEWATERING

STORM WATER  
DEWATERING

UTILITY WATER  
PUMPING



Darling DS-Series pumps are truly versatile dewatering pumps catering to variety of applications across the segments.

DS-Series pumps are not only sleek, sturdy & portable but they are backed by undisputed reliability quotient associated with Darling Pumps.

With experience of over four decades, Darling DS-Series pump is your one stop solution for all kind of dewatering application...

### These pumps are ideal for :

- Dewatering of small & medium size Cellars, Garages and Basements
- Variety of Dewatering applications across the sector
- Dewatering of Waste Waters in Malls, Hotels, Hospitals and Commercial establishments
- Treated water in ETP's and STP's
- Utility and Domestic Water pumping

Welcome to trouble free pumping... [www.darlingpumps.in](http://www.darlingpumps.in)

| PERFORMANCE CHART (50Hz, 2900 RPM) |          |               |         |               |                 |             |      |      |     |      |      |      |      |      |      |      |      |      |
|------------------------------------|----------|---------------|---------|---------------|-----------------|-------------|------|------|-----|------|------|------|------|------|------|------|------|------|
| Model                              | Power HP | Impeller Type | Voltage | Delivery (mm) | Solid size (mm) | M3/HR       | 6    | 9    | 12  | 15   | 18   | 21   | 24   | 30   | 36   | 48   | 60   | 72   |
|                                    |          |               |         |               |                 | LPM         | 100  | 150  | 200 | 250  | 300  | 350  | 400  | 500  | 600  | 800  | 1000 | 1200 |
| DS 0850 T                          | 1        | Radial        | 415     | 50            | 8               | Head - Mtrs | 14.8 | 14   | 13  | 12   | 11   | 8.2  | 5    | -    | -    | -    | -    | -    |
| DS 1150 T                          | 1.5      | Radial        | 415     | 50            | 8               |             | 16.8 | 16   | 15  | 14   | 12.5 | 10.5 | 7.5  | -    | -    | -    | -    | -    |
| DS 1550 T                          | 2        | Radial        | 415     | 50            | 8               |             | -    | 16.8 | 16  | 15   | 14   | 12.7 | 11.4 | -    | -    | -    | -    | -    |
| DS 2265 T                          | 3        | Radial        | 415     | 65            | 8               |             | -    | -    | -   | 20.3 | 20   | 19.2 | 18.5 | 16   | 12.5 | -    | -    | -    |
| DS 2280 T                          | 3        | Radial        | 415     | 80            | 8               |             | -    | -    | -   | 14.2 | 13.8 | 13.4 | 13   | 12   | 11   | 9    | 5.8  | 2    |
| DS 3765 T                          | 5        | Radial        | 415     | 65            | 8               |             | -    | -    | -   | 24.5 | 24   | 23.2 | 22.4 | 21   | 19   | 11.5 | -    | -    |
| DS 3780 T                          | 5        | Radial        | 415     | 80            | 8               |             | -    | -    | -   | 18.7 | 18   | 17.5 | 17   | 15.8 | 14.5 | 11.8 | 9    | 4.4  |

Note: All dimensions are in millimeter (mm).

## Features

- **Impeller** - Specially designed highly efficient, wear resistant impeller.
- **Motor** - Highly efficient dry motor, better heat dissipation.
- **Mechanical Seals** - Dual face mechanical seals working in oil bath ensures constant lubrication, Increased Seal Life.
- **Water Proof Winding** - Quick & easy maintenance, Rewindable at site with minimal facility hence lesser down time..
- **Shaft** - Shaft not exposed to pumpage liquid.
- **Protection** - Protected against dry running, temperature rise.
- **Jacketed Design** - Run-through cooling for better heat dissipation & low minimum submergence.
- **Cable Sealing** - Special leak proof cable sealing arrangement to avoid ingress of water through cable. No need to open motor for changing cable.
- **Portable** - light-weight & modular design for better handling.

## Denominations

|                          |   |
|--------------------------|---|
| Product Code             | DS                                      |
| Installation             | Vetical / Portable                      |
| Impeller Characteristics | Radial / Nonclog                        |
| Discharge Connection     | 50 / 65 / 80 mm<br>Flange / Hose Nipple |

## Motor Data

|   |              |
|---|--------------|
| Submersible Squirrel Cage Induction Motor | Dry Motor    |
| Frequency                                 | 50Hz±3%      |
| Voltage                                   | 380V to 415V |
| Phase                                     | Three        |
| Starting                                  | DOL          |

## Materials

|            |                |
|------------|----------------|
| Impeller   | CI FG 200      |
| Casing     | CI FG 200      |
| Motor Body | SS             |
| Shaft      | AISI-410       |
| O-Rings    | Nitrile Rubber |

## Process Data

|                        |                             |
|------------------------|-----------------------------|
| Liquid Temperature     | -5°C to 40°C                |
| Liquid Density         | upto 1100 kg/m <sup>3</sup> |
| Solid passage          | upto 8 mm                   |
| Suitable for liquid pH | 6 to 8                      |

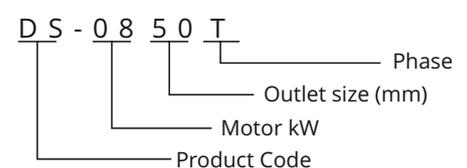
## Monitoring Equipment

Thermal Contacts cut-off Temp. 85°C

## Cable

H07RNF 10 mtrs

## Nomenclature



## DARLING PUMPS PVT. LTD.

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*Designing SMART pumping solutions...*

DEWATERING simplified...



DEWATERING

# Heavy Duty Dewatering Pumps - DJ Series

## Applications

- Basement & Storm Water Dewatering
- Pumping Heavily Contaminated Water with Sand Gravel and Sludge at construction sites
- Sea Water Pumping
- Industrial Water Dewatering
- Dam Sites & Deep Excavation
- Micro Tunnel Projects
- Underground Civil Projects
- & many more similar applications...



## Features

- **Impeller** - Wear Resistant SS Impeller with wide passage that can pass solid up to 16mm.
- **Motor** - Motor capable to withstand wide voltage fluctuations, Highly efficient dry motors with built-in protection against temperature rise.
- **Shaft** - Extra heavy duty SS shaft not exposed to pumpage liquid.
- **Mechanical Seals** - Dual mechanical seal, independent of discharge pressure, thus providing improved seal life.
- **Bearing** - Heavy duty ball bearing used at top and bottom ends to balance adverse load.
- **Seal-Guard Protection** - Additional protection for Mechanical Seal by seal guard.
- **Cable Sealing** - Special leak proof cable sealing arrangement to avoid ingress of water through cable. No need to open motor for changing cable.
- **Cooling** - Run-through cooling for better heat dissipation & low minimum submergence.

## Tech. Specifications

|                         |                                 |
|-------------------------|---------------------------------|
| Rating                  | : Up to 90 kW                   |
| Flow                    | : Up to 500 m <sup>3</sup> / hr |
| Head                    | : Up to 88 m                    |
| Induction Motor         | : Dry Type                      |
| Degree of Protection    | : IP68                          |
| Speed                   | : 2900 rpm (Sync. speed)        |
| Power Supply/Frequency* | : 3-Phase, AC - 415V / 50Hz     |
| Starting                | : DOL / Star Delta              |

## Denominations

|                      |                       |
|----------------------|-----------------------|
| Product Code         | : DS, iDJ, DJC, DJ    |
| Installation         | : Vertical            |
| Impeller Type        | : Radial / Non-clog   |
| Discharge Connection | : 50/65/80/100/150 mm |

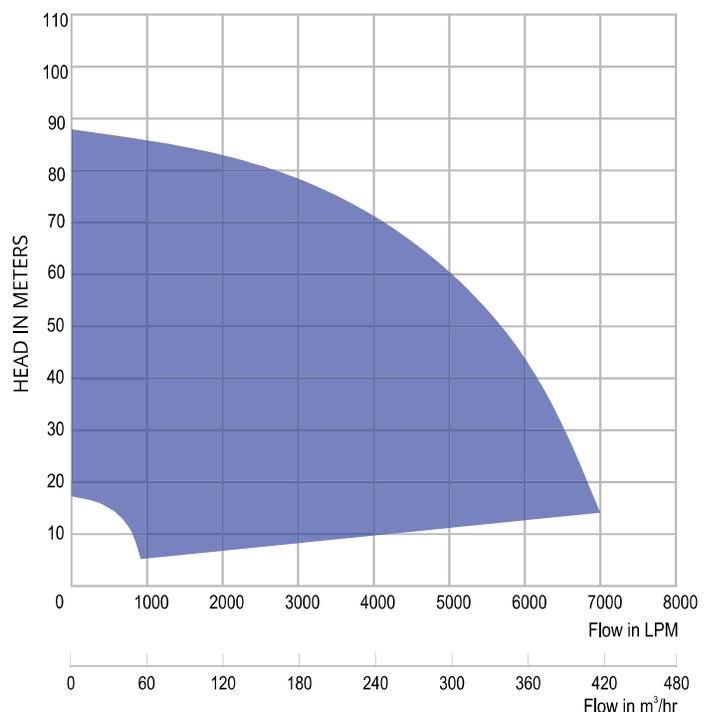
## Process Data

|                    |                               |
|--------------------|-------------------------------|
| Liquid Temperature | : -5°C to 40°C Max.           |
| Liquid Density     | : 1100 kg/m <sup>3</sup> Max. |
| Liquid pH          | : 6 to 8                      |
| Max. Solid Size    | : Up to 16 mm                 |

## Materials\*\*

|                 |                             |
|-----------------|-----------------------------|
| Impeller        | : CA-15, CF8, CF8M          |
| Shaft           | : AISI-410, SS-304, SS-316  |
| Diffuser / Bowl | : Various grades of CI / SS |
| Wear Plate      | : Various grades of CI / SS |
| Mech. Seal      | : Sic v/s Sic, Tc v/s Tc    |

## Performance (Range)



\* Option of Other Voltage & Frequency is also available. \*\* Option of Complete pump in special MoC is also available.

Research Agriculture Government Agencies Water and Sewerage  
 Steel Plants Research Mines Textile Industries  
 Irrigation Projects Power Sector Civil Infraprojects Petroleum Sector  
 Tunnel Dewatering Atomic Energy Civil Infraprojects  
 Electricity Boards Fountains Water and Sewerage  
 Satellite & Space Agencies  
 Port Trusts Construction Railways Port Trusts Textile  
 Irrigation Projects Cement Industries Food & Pharma Industries  
 Electricity Boards Railways  
 Fountains Cement Industries Construction



### Our Product Range

- Clear Water Pumps • Raw Water Pumps • Dewatering Pumps
- Waste Water Pumps • Vertical Wet Pit Pumps • Sewage Handling Pumps
- Slurry Handling Pumps • Pump Control Systems
- ...& various pumping accessories

For exclusive range of Darling products scan



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