



200 - 1100 GPM

3 YL

150 - 300 Feet TDH

**STANDARD SPECIFICATION****Discharge** - 3 inch threaded discharge**Suction** - 4 inch threaded suction**Impeller** - Enclosed bronze**Volute** - Right hand tangential discharge, four positions**Mechanical Seal or Traditional Packing** - Single type 1 carbon ceramic mechanical seal: Cycloseal® design, Run-dry available**Materials of Construction**

- Cast iron bronze fitted
- Other materials available

**PURCHASE OPTIONS****• Complete Pump**

- Fully assembled at the factory
- Ready to go to the field

**• Pump End Kit Finished components**

- PrePainted

Easy assembly

- Common tools –
- Simple instructions

Obtain drives locally or through KamalBlower

**MOUNTING OPTIONS****• Close Coupled Electric Standard**

- JP motor shaft
- Standard Efficiency – Cornell's Energy Efficient Design

**• Frame Mount**

KamalBlower F85

**• Engine Bracket**

- KamalBlower EM309 (SAE 5)
- KamalBlower EM85 (SAE 3 and 4)

**FEATURES & BENEFITS****• KamalBlower's Tradition of Excellence:**

- Highest Quality Products**
- Experience**
  - Over 50 years in the centrifugal pump business
- Optimum Hydraulics**
  - In house engineering staff and test lab facilities
- Strong Local Dealer Support**
  - Our agricultural products are sold only through authorized dealerships
  - Dealerships provide full service to customers from sales to replacement parts
  - Dealers maintain and improve their knowledge at educational activities like Cornell's "Pump School"

**• Economically Priced:**

- Component Design**
  - Efficient manufacturing through increased volume of common parts
- Versatility**
  - The ability to mix and match components reducing local inventory of both parts and whole goods with a wide variety of pumps and mounting configurations for the customer

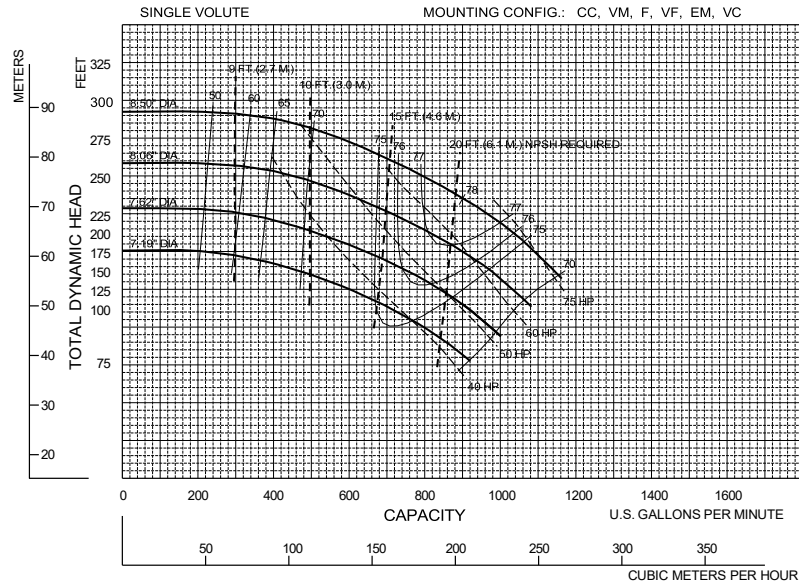
**• Exceptional Design:**

- Efficiency**
  - Effectively converts energy into fluid flow and pressure
- Long Product Life**
  - Thick walled castings -
  - Heavy duty shafts
  - 20,000 hour bearings -
  - Replaceable wear rings and shaft sleeves -
  - Reduced thrust load through design and balance lines where appropriate

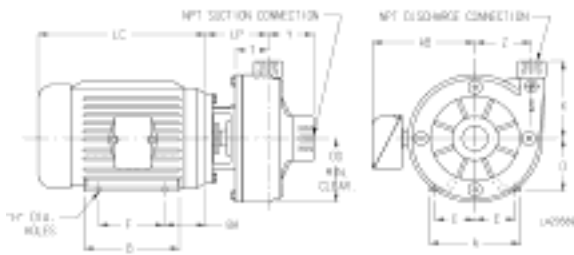
## PERFORMANCE CURVES

**3 YL**  
**3600 RPM**

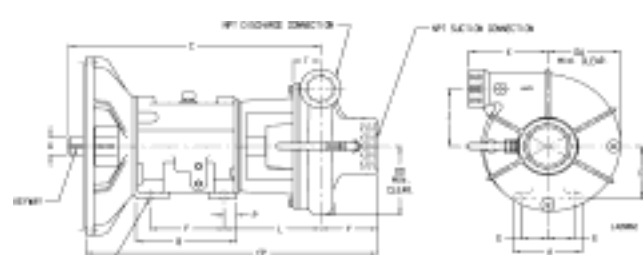
| Speed    | Impeller Dia. | Style    | Solids Dia. | N <sub>S</sub> | Suction | Discharge | No. vanes |
|----------|---------------|----------|-------------|----------------|---------|-----------|-----------|
| 3525 RPM | VARIOUS       | ENCLOSED | .50"        | 1750           | 4"      | 3"        | 6         |



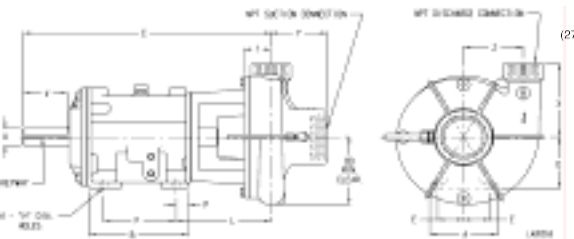
**Note:**  
Curves also  
available in  
1800 and  
various RPM



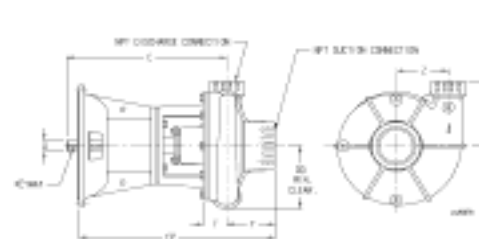
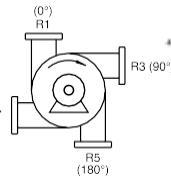
**Figure 1**



### Figure 3



### Figure 2



### Figure 4

## PUMP DIMENSIONS

| MOUNT | AK          | Fig. | A   | B    | C     | CP    | D    | DA   | DD           | E   | F | H    | L    | P    | T            | U    | V    | X            | Y            | Z          | LP           | KEYWAY    |
|-------|-------------|------|-----|------|-------|-------|------|------|--------------|-----|---|------|------|------|--------------|------|------|--------------|--------------|------------|--------------|-----------|
| CC    | 8.5<br>12.5 | 1    | -   | -    | -     | -     | -    | -    | 7.62<br>7.62 | -   | - | -    | -    | -    | 2.78<br>2.78 | -    | -    | 8.35<br>8.35 | 4.81<br>4.81 | 6.5<br>6.5 | 7.63<br>7.63 | -<br>-    |
| F85   | -           | 2    | 6.5 | 9.52 | 24.47 | -     | 5.25 | -    | 7.62         | 2.5 | 7 | 0.69 | 9.38 | 1.16 | 2.78         | 2    | 4.81 | 8.35         | 4.81         | 6.5        | -            | .50 X .25 |
| EM85  | -           | 3    | 6.5 | 9.52 | 24.47 | 27.28 | 5.25 | 7.62 | 7.25         | 2.5 | 7 | 0.69 | 9.38 | 1.16 | 2.78         | 2    | -    | 8.35         | 4.81         | 6.5        | -            | .50 X .25 |
| EM309 | -           | 4    | -   | -    | 17.87 | 21.31 | -    | -    | 7.62         | -   | - | -    | -    | -    | 2.78         | 1.25 | -    | 8.35         | 4.81         | 6.5        | -            | .25 X .12 |

## MOTOR DIMENSIONS

| MOTOR FRAME | AK DIM. | A     | B     | D    | E    | F     | H    | AB    | BA   | LC    |
|-------------|---------|-------|-------|------|------|-------|------|-------|------|-------|
| 143-5       | 4.5     | 6.5   | 5.94  | 3.5  | 2.75 | 5     | 0.34 | 5.62  | 2.88 | 10    |
| 182-3       | 4.5     | 8.62  | 6.5   | 4.5  | 3.75 | 5.5   | 0.41 | 6.75  | 3.5  | 12.25 |
|             | 8.5     | 8.62  | 6.5   | 4.5  | 3.75 | 5.5   | 0.41 | 6.75  | 3.5  | 12.25 |
| 213-5       | 8.5     | 9.5   | 8     | 5.25 | 4.25 | 7     | 0.41 | 7.94  | 4.5  | 13.69 |
| 254-6       | 8.5     | 11.25 | 11.25 | 6.25 | 5    | 10    | 0.53 | 9.5   | 5    | 17.94 |
| 284-6       | 12.5    | 12.25 | 12.25 | 7    | 5.5  | 11    | 0.53 | 11.37 | 5    | 21.31 |
| 324-6       | 12.5    | 14.25 | 13.75 | 8    | 6.25 | 12    | 0.66 | 12.22 | 5.5  | 22.19 |
| 364-5       | 12.5    | 15.75 | 14    | 9    | 7    | 12.25 | 0.66 | 13.2  | 6.12 | 24.31 |
| 404-5       | 12.5    | 18.5  | 16.62 | 10   | 8    | 13.75 | 0.81 | 16.39 | 6.88 | 29.97 |

**KamalBlower Solutions LLC**

**ISO9001:2000** CERTIFIED