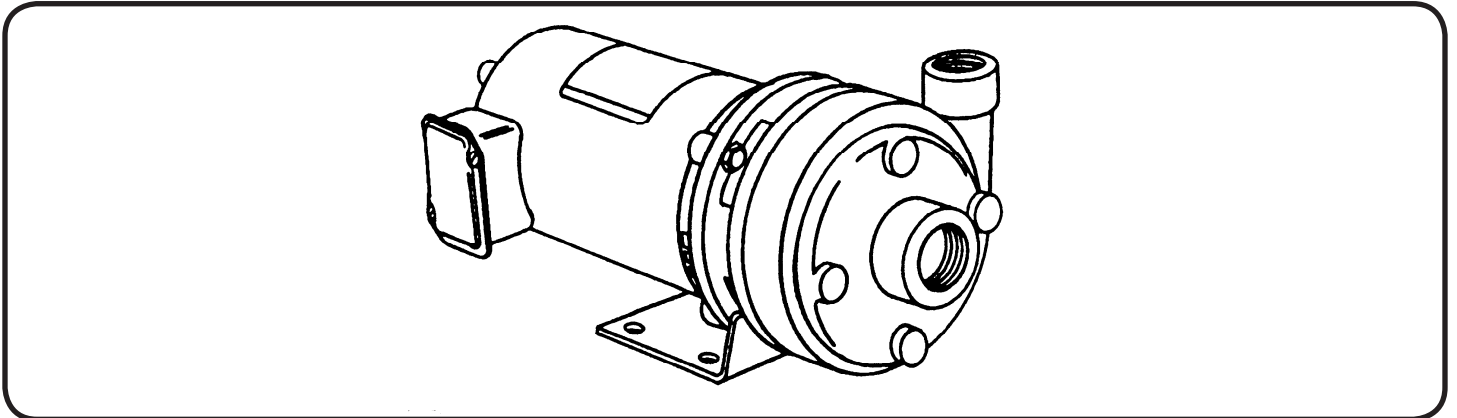
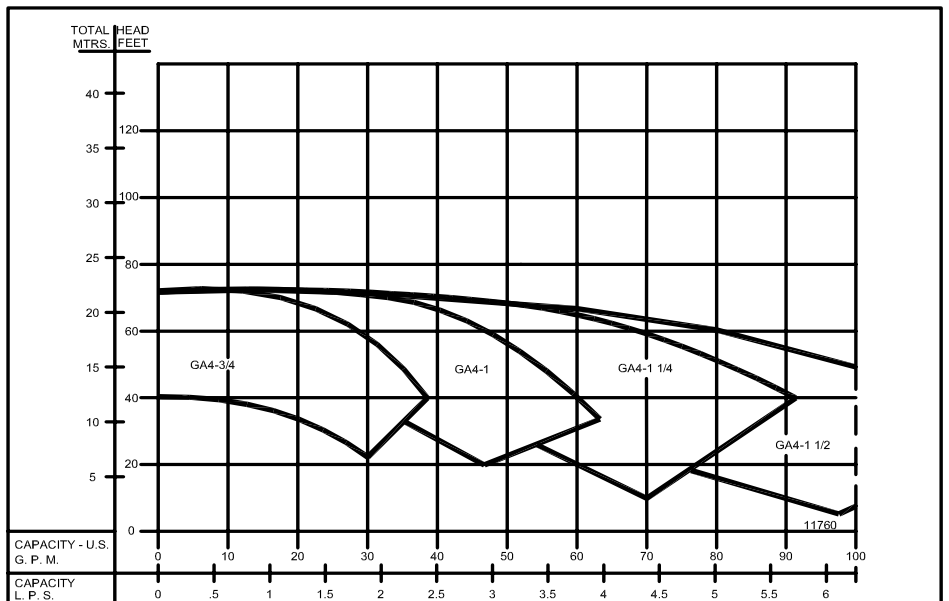


## Close Coupled Centrifugal Pumps



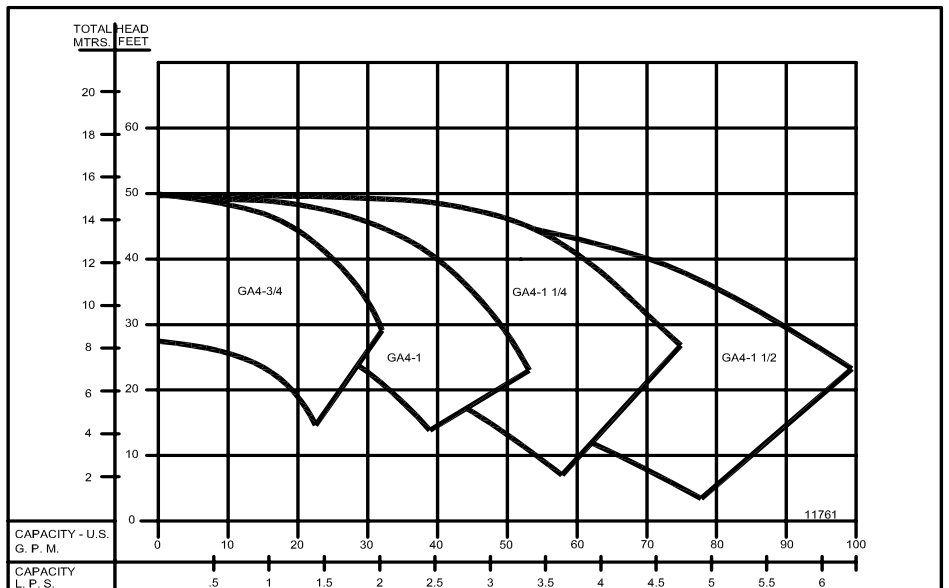
**3500 RPM - 60Hz.**  
CAPACITIES TO 130 GPM (8.2 LPS)  
HEADS TO 75 FEET (23 M)

(\* ) FOR CAPACITIES ABOVE 100 GPM  
SEE GA4-1 1/2 CURVE.



**2900 RPM - 50Hz.**  
CAPACITIES TO 108 GPM (6.8 LPS)  
HEADS TO 50 FEET (15 M)

Individual performance curve should be  
checked for final selection.



**Close Coupled Centrifugal Pumps**

**FOUR POSITION CASING**

Discharge can be located in any of four positions. Casing is close grain iron of 30,000 psi minimum tensile strength. Back pull-out design eliminates the need to disturb piping should the pump ever require service - the casing stays in the line.

**ENCLOSED CAST IRON IMPELLER**

Of the latest hydraulic design for maximum efficiency, impeller is balanced for vibration-free operation and threaded onto stainless steel motor shaft. Impeller is available in bronze.

**MECHANICAL SHAFT SEAL**

Standard self-adjusting shaft seal for temperatures to 225°F (107°C) and pressures to 150 psi (1034 kpa). Ceramic seat and carbon seal face for long trouble-free service. Special seals are available for higher temperatures and fluids other than water.

**MOTORS**

Standard pump motors are of open drip proof (ODP) construction and are rated with jet pump service factors for continuous duty operation. Motors are 56 frame size with NEMA standard mounting flange, one piece threaded stainless steel shaft and ball/ball bearing construction.

**FACTORY TESTED**

After careful assembly and inspection, EVERY pump is factory tested and meets Hydraulic Institute standards.

**MAXIMUM OPERATING CONDITIONS**

|                                           |                  |
|-------------------------------------------|------------------|
| TEMPERATURE<br>(For Standard Buna-N Seal) | 225°F (107°C)    |
| INLET PRESSURE                            | 70 PSI (433kPa)  |
| CASING WORKING PRESSURE                   | 100 PSI (690kPa) |

**MOTOR INFORMATION**

60 Hz - 3500 RPM - ODP  
Single Phase: 1/3 thru 2 Hp. - 115/230 Volt  
3 Hp. - 230 Volt only  
Three Phase: 1/3 thru 3 Hp. - 208-230/460 Volt

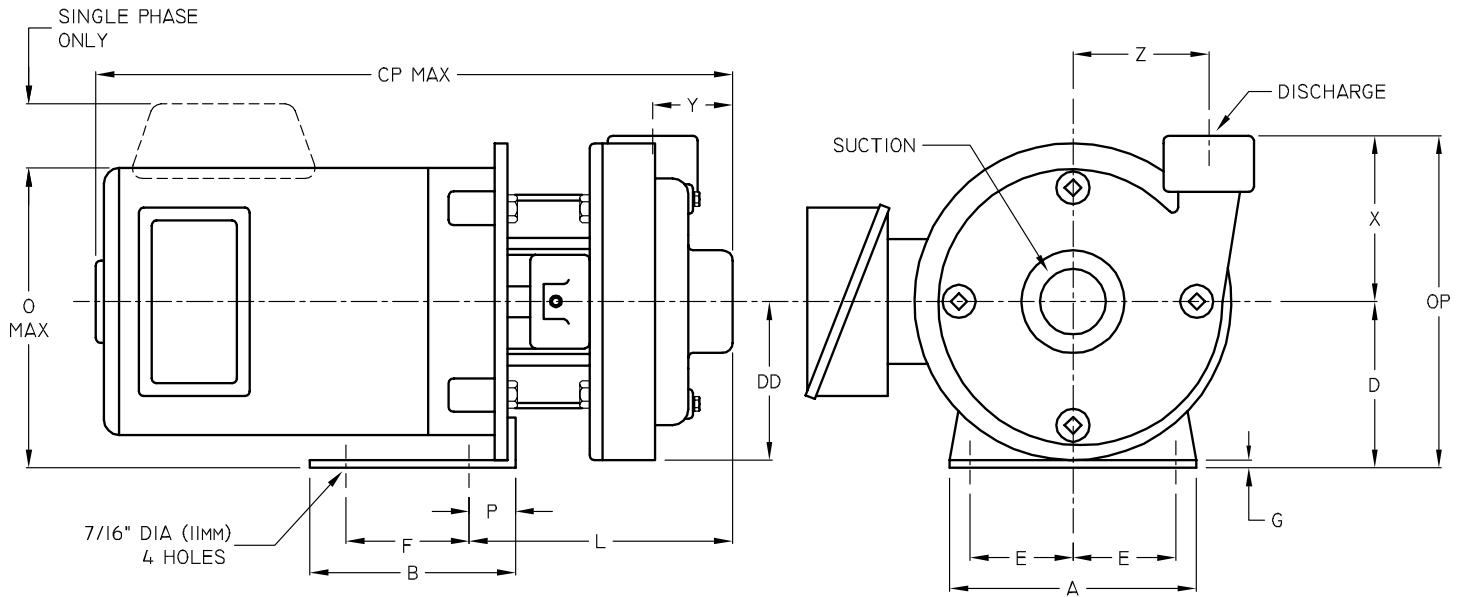
50 Hz - 2900 RPM - ODP  
Single Phase: 110/220 Volt  
Three Phase: 380 Volt

Voltages may differ from some suppliers. Consult factory.  
Overload Protection: All single phase ODP and Totally Enclosed motors have built-in overload protection. All three phase motors and all explosion proof motors must be installed with a magnetic starter which provides full 3-leg protection. Failure to use correct starter and overloads will void motor warranty.

**MATERIALS OF CONSTRUCTION**

| PART       | ALL IRON                      | BRONZE FITTED                 | ALL BRONZE                    |
|------------|-------------------------------|-------------------------------|-------------------------------|
| Adapter    | Cast Iron                     | Cast Iron                     | Bronze                        |
| Casing     | Cast Iron                     | Cast Iron                     | Bronze                        |
| Impeller   | Cast Iron                     | Bronze                        | Bronze                        |
| Shaft      | #303 Stainless                | #303 Stainless                | #303 Stainless                |
| Shaft Seal | Carbon-Ceramic<br>SS - Buna-N | Carbon-Ceramic<br>SS - Buna-N | Carbon-Ceramic<br>SS - Buna-N |

### Close Coupled Centrifugal Pumps

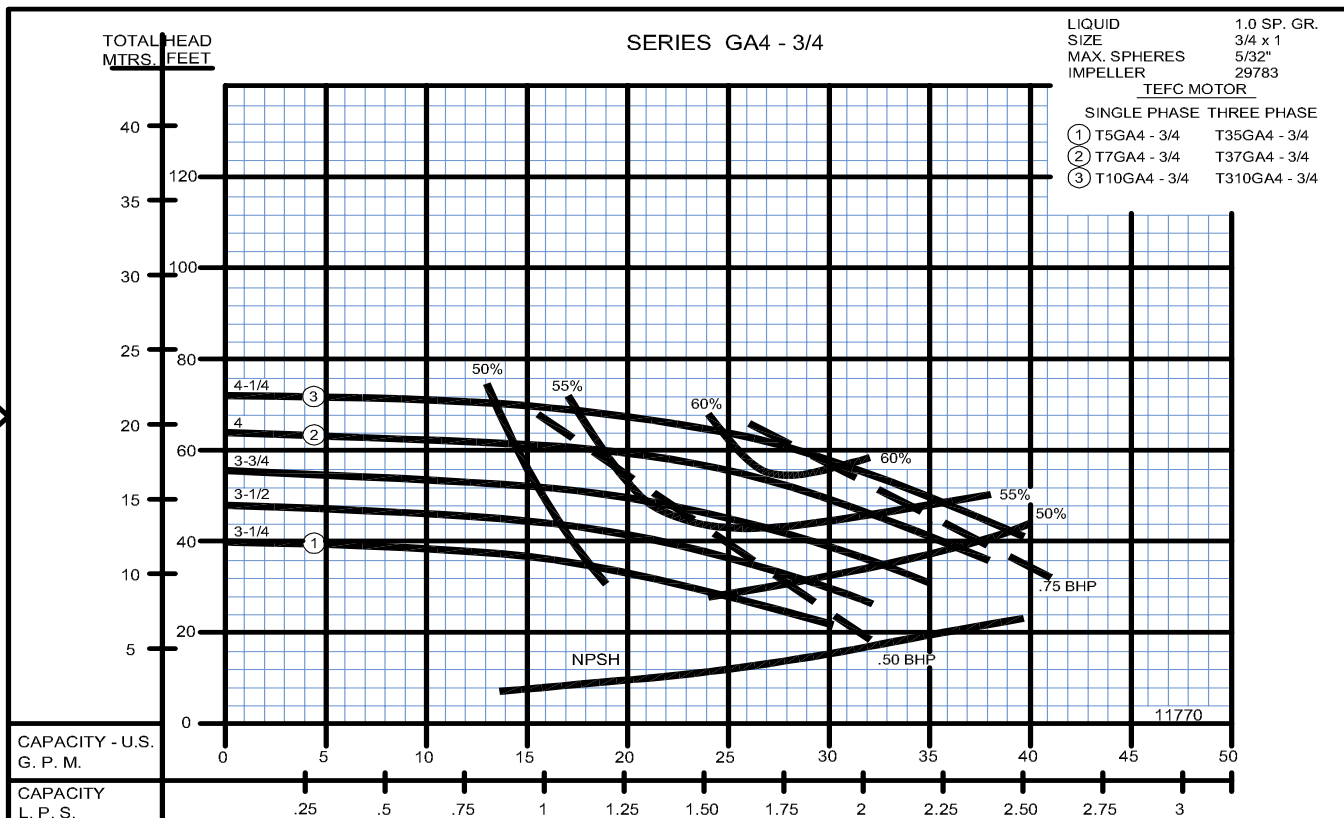
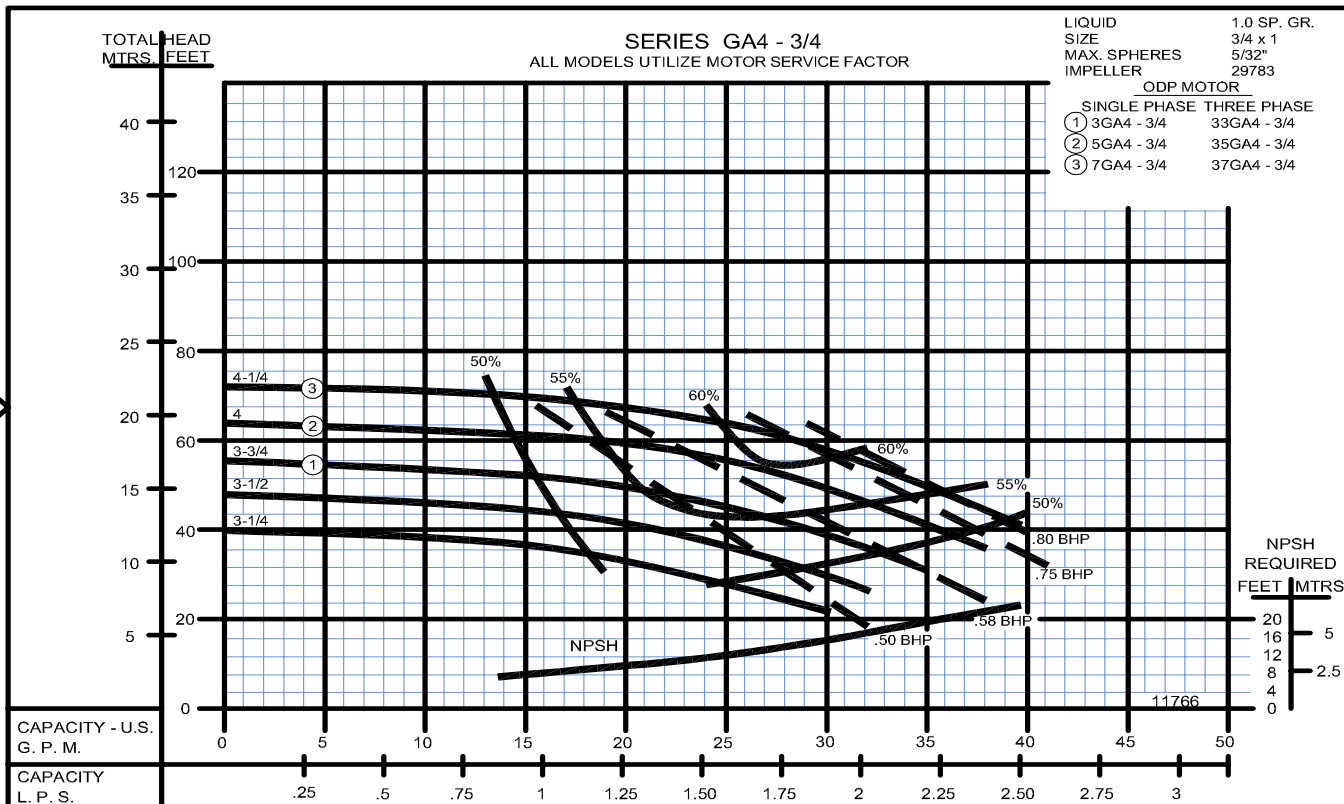


| DIMENSIONS IN INCHES |                  |               |                |   |   |                                  |    |                                |    |   |   |                                 |    |    |    |    |                                 |                                 |
|----------------------|------------------|---------------|----------------|---|---|----------------------------------|----|--------------------------------|----|---|---|---------------------------------|----|----|----|----|---------------------------------|---------------------------------|
| MODEL                | MOTOR FRAME SIZE | DISC NPT (in) | SUCT. NPT (in) | A | B | CP                               | D  | DD                             | E  | F | G | L                               | O  | OP | P  | X  | Y                               | Z                               |
| GA4-¾                | 56               | ¾             | 1              | 6 | 5 | 15½                              | 3½ | 3 <sup>5</sup> / <sub>16</sub> | 2½ | 3 | ¾ | 5½                              | 6¾ | 7  | 1⅞ | 3½ | 2 <sup>1</sup> / <sub>16</sub>  | 2 <sup>5</sup> / <sub>8</sub>   |
| GA4-1                | 56               | 1             | 1¼             | 6 | 5 | 15 <sup>9</sup> / <sub>16</sub>  | 3½ | 3 <sup>5</sup> / <sub>16</sub> | 2½ | 3 | ¾ | 5 <sup>9</sup> / <sub>16</sub>  | 6¾ | 7  | 1⅞ | 3½ | 1 <sup>15</sup> / <sub>16</sub> | 2 <sup>11</sup> / <sub>16</sub> |
| GA4-1¼               | 56               | 1¼            | 1½             | 6 | 5 | 15 <sup>13</sup> / <sub>16</sub> | 3½ | 3 <sup>5</sup> / <sub>16</sub> | 2½ | 3 | ¾ | 5 <sup>15</sup> / <sub>16</sub> | 6¾ | 7½ | 1⅞ | 4  | 2 <sup>3</sup> / <sub>16</sub>  | 3                               |
| GA4-1½               | 56               | 1½            | 2              | 6 | 5 | 16 <sup>1</sup> / <sub>16</sub>  | 3½ | 3 <sup>7</sup> / <sub>16</sub> | 2½ | 3 | ¾ | 6 <sup>1</sup> / <sub>16</sub>  | 6¾ | 8  | 1⅞ | 4½ | 2 <sup>5</sup> / <sub>16</sub>  | 3⅞                              |

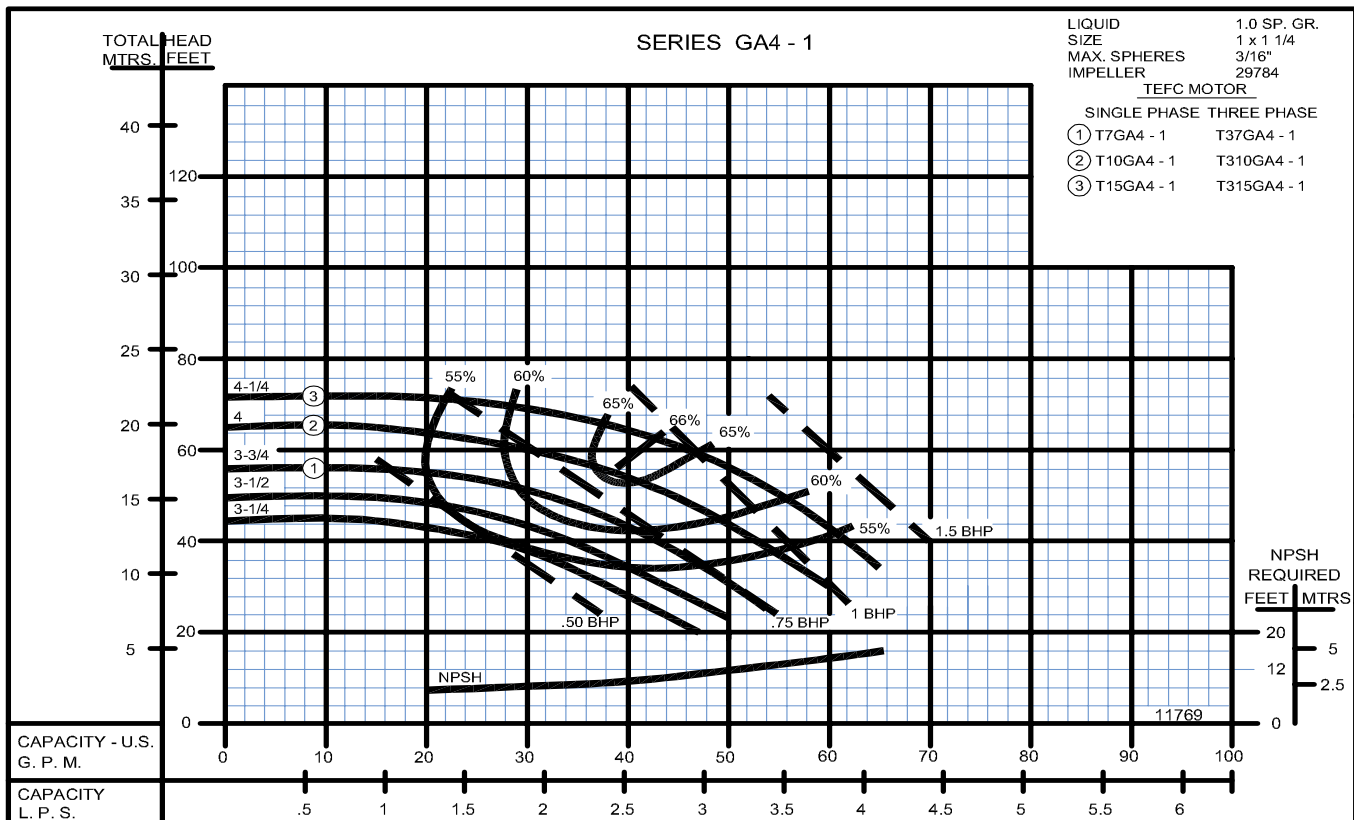
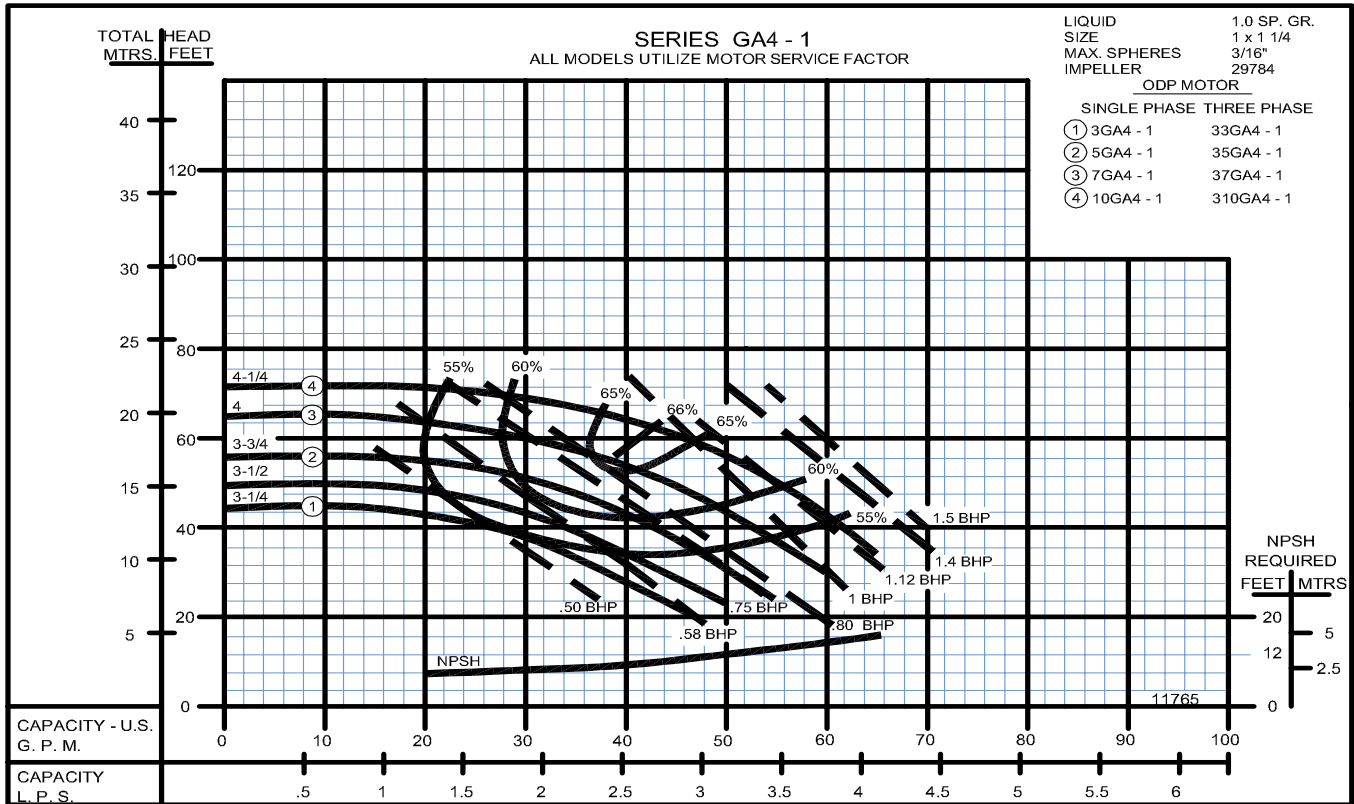
| DIMENSIONS IN MILLIMETERS |                  |               |                |     |     |     |    |    |    |    |     |     |     |     |    |     |    |    |
|---------------------------|------------------|---------------|----------------|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|----|-----|----|----|
| MODEL                     | MOTOR FRAME SIZE | DISC NPT (in) | SUCT. NPT (in) | A   | B   | CP  | D  | DD | E  | F  | G   | L   | O   | OP  | P  | X   | Y  | Z  |
| GA4-¾                     | 56               | ¾             | 1              | 152 | 127 | 394 | 89 | 84 | 64 | 76 | 4.8 | 140 | 172 | 178 | 29 | 89  | 52 | 67 |
| GA4-1                     | 56               | 1             | 1¼             | 152 | 127 | 395 | 89 | 84 | 64 | 76 | 4.8 | 141 | 172 | 178 | 29 | 89  | 49 | 68 |
| GA4-1¼                    | 56               | 1¼            | 1½             | 152 | 127 | 402 | 89 | 84 | 64 | 76 | 4.8 | 151 | 172 | 191 | 29 | 102 | 55 | 76 |
| GA4-1½                    | 56               | 1½            | 2              | 152 | 127 | 408 | 89 | 87 | 64 | 76 | 4.8 | 154 | 172 | 203 | 29 | 114 | 59 | 79 |

DIMENSIONS SHOWN ABOVE ARE APPROXIMATE MAXIMUM DIMENSIONS FOR STANDARD PUMPS EQUIPPED WITH ODP MOTORS.

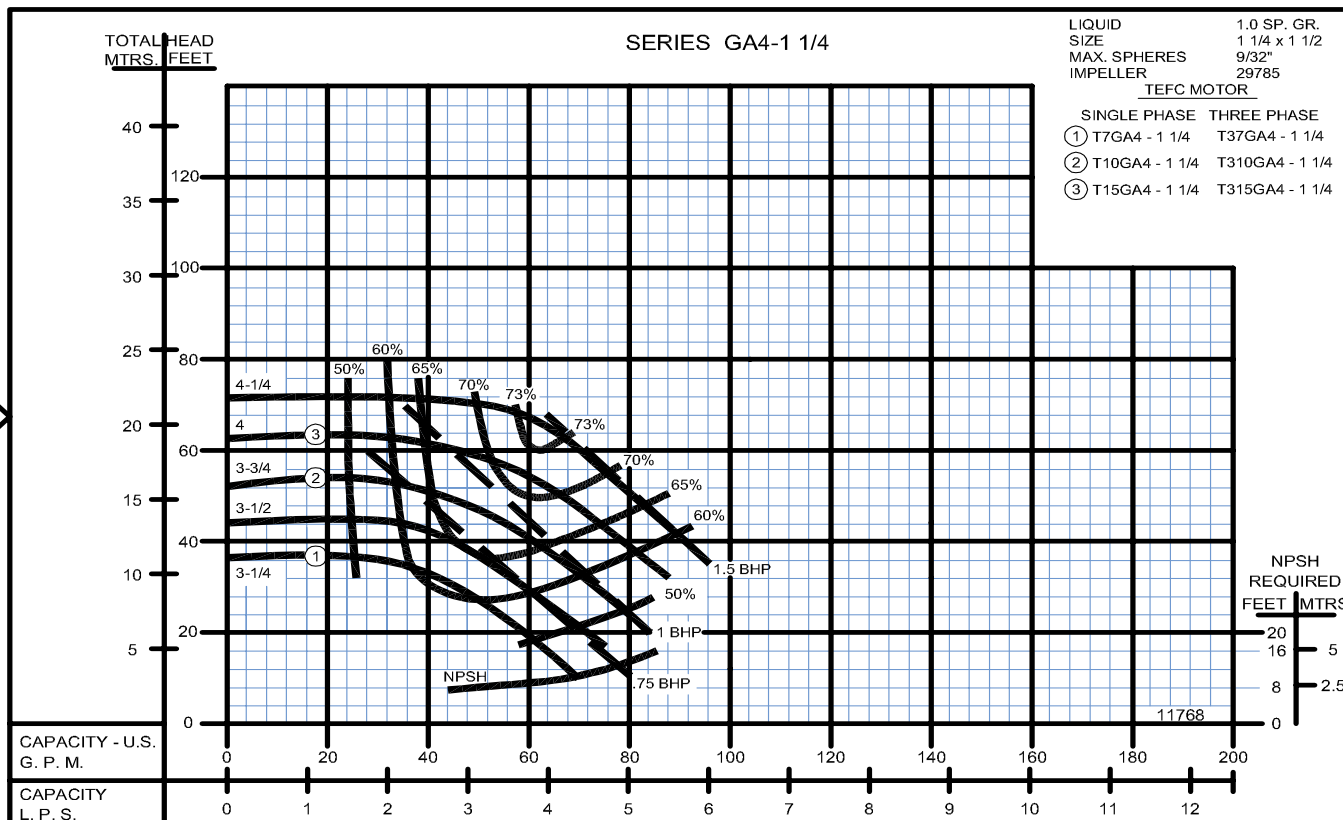
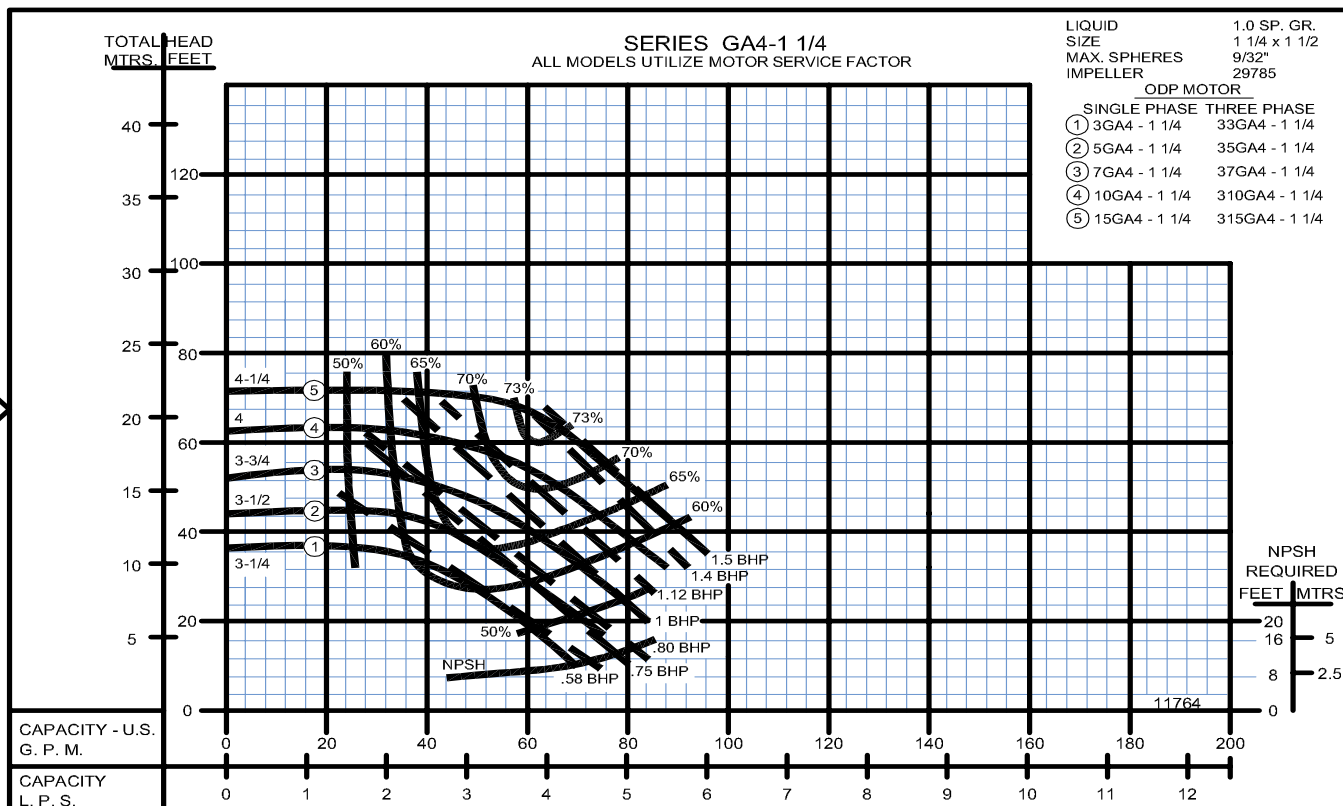
**Close Coupled Centrifugal Pumps**



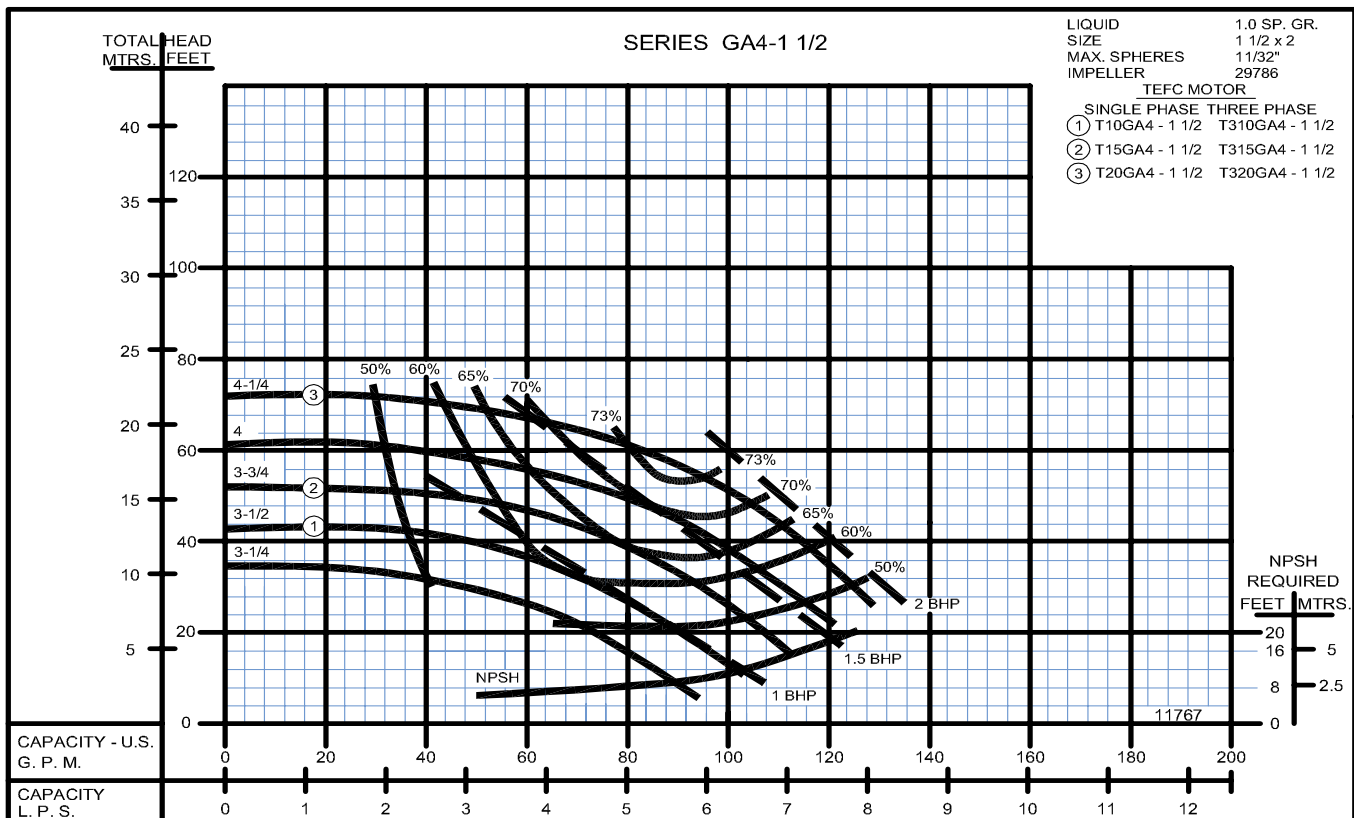
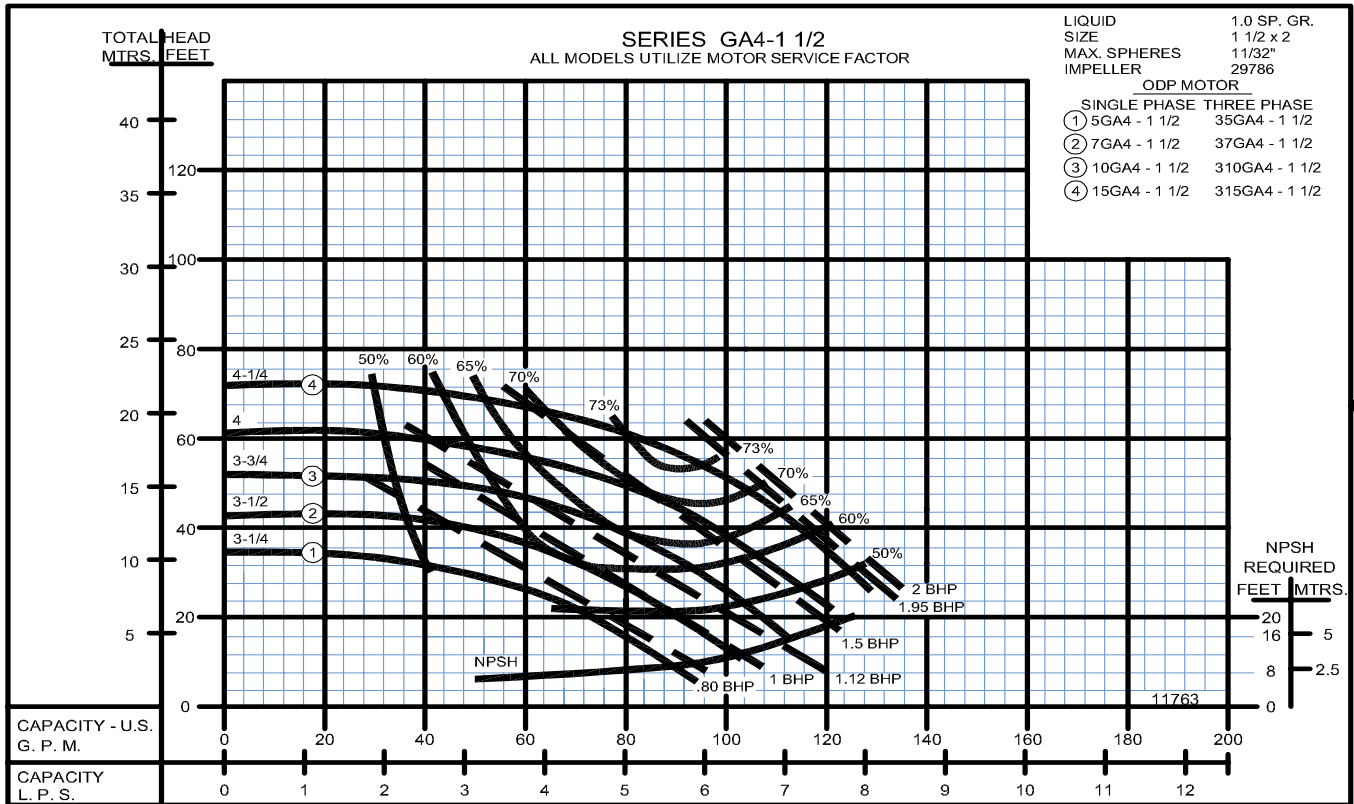
## Close Coupled Centrifugal Pumps



**Close Coupled Centrifugal Pumps**

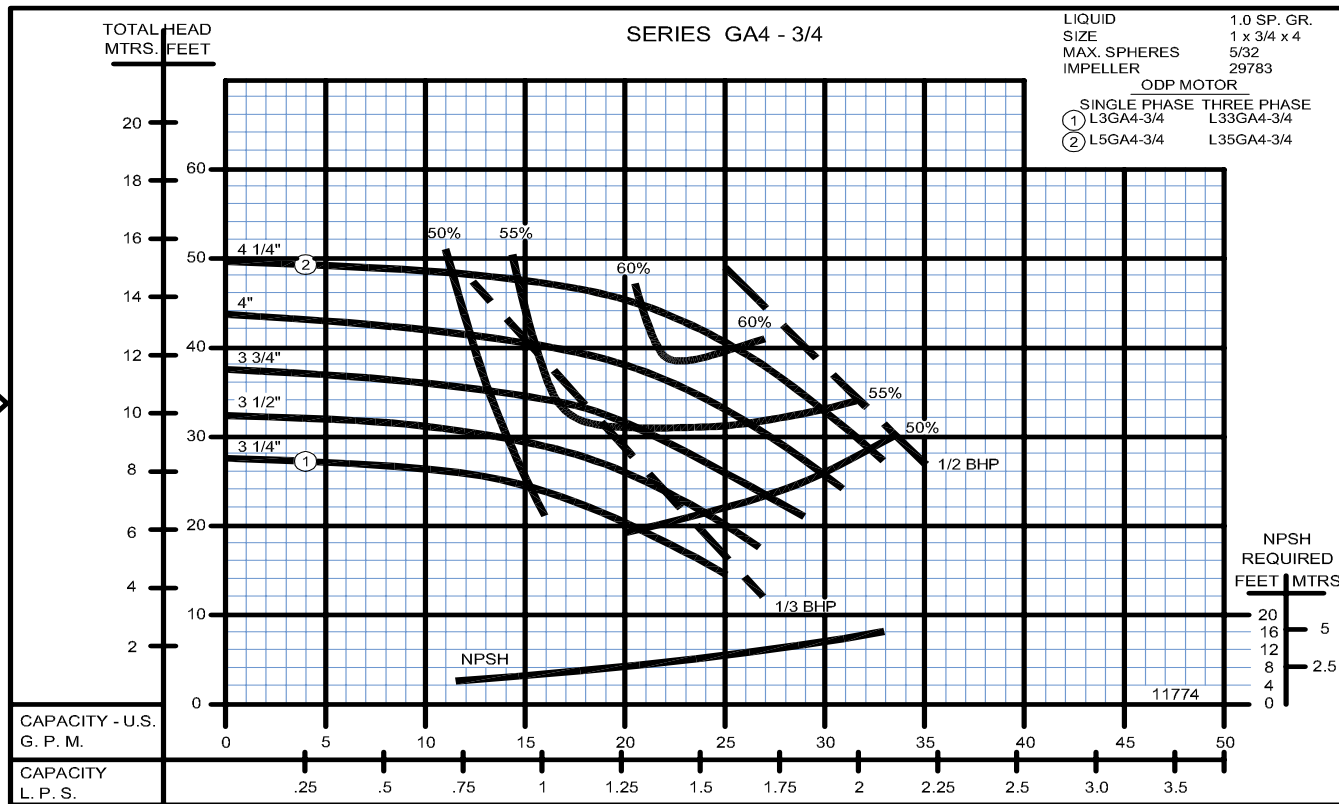


## Close Coupled Centrifugal Pumps

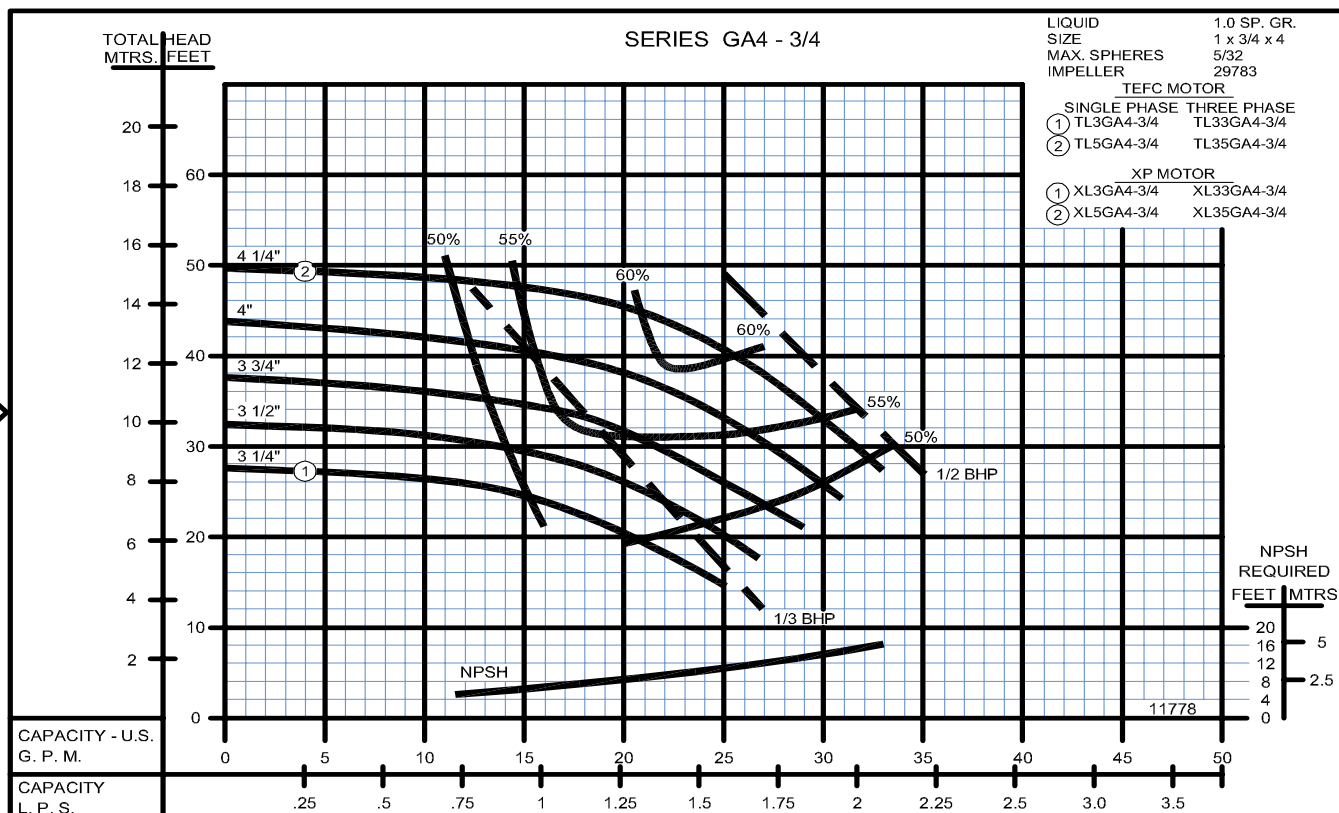


**Close Coupled Centrifugal Pumps**

2900 RPM

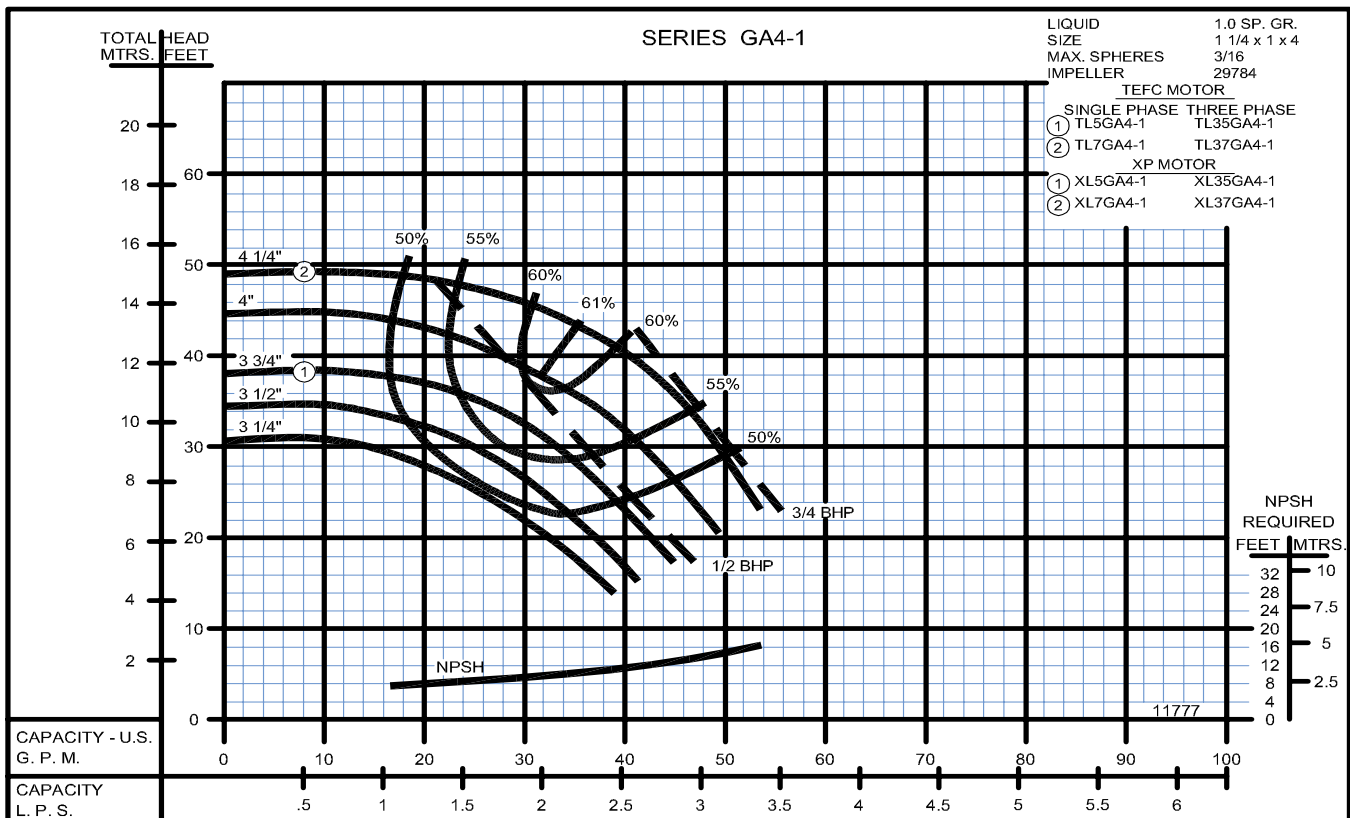
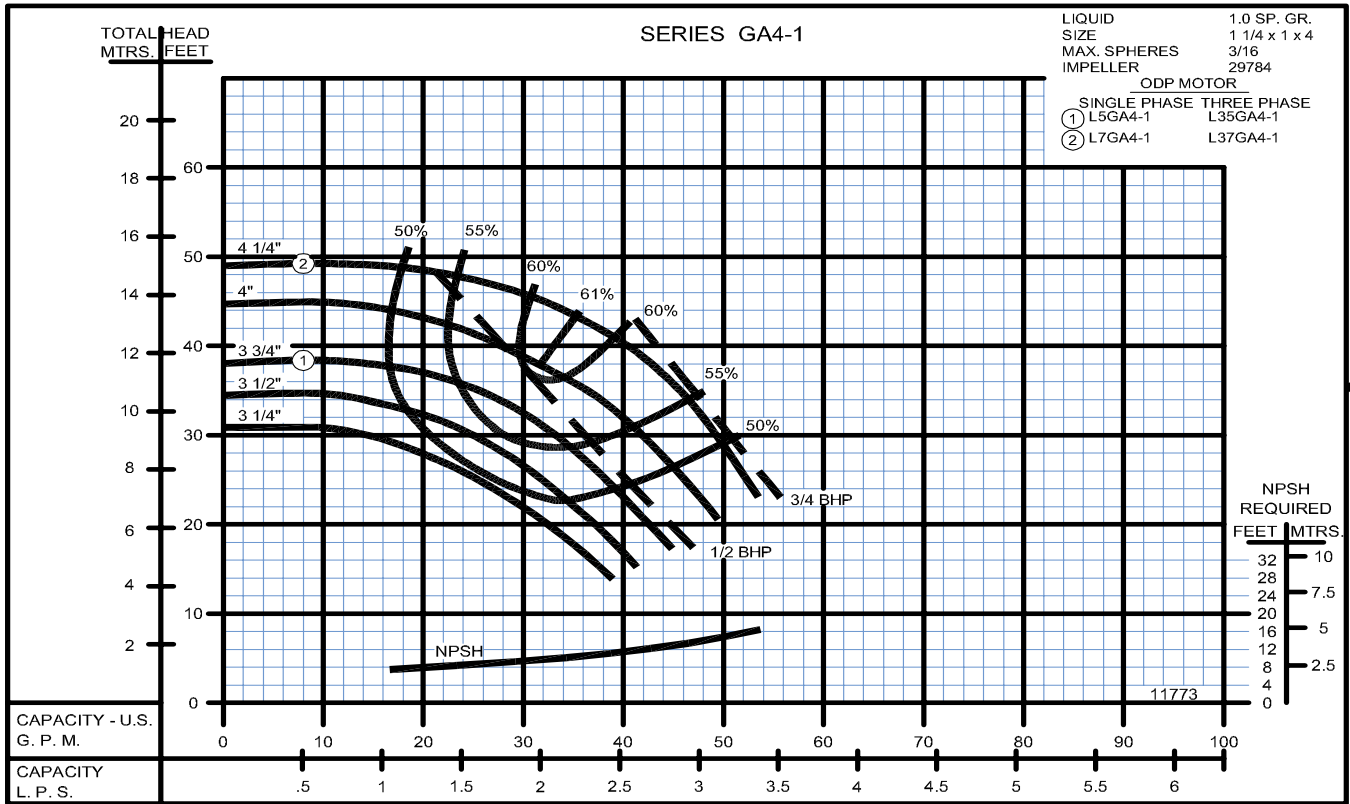


2900 RPM



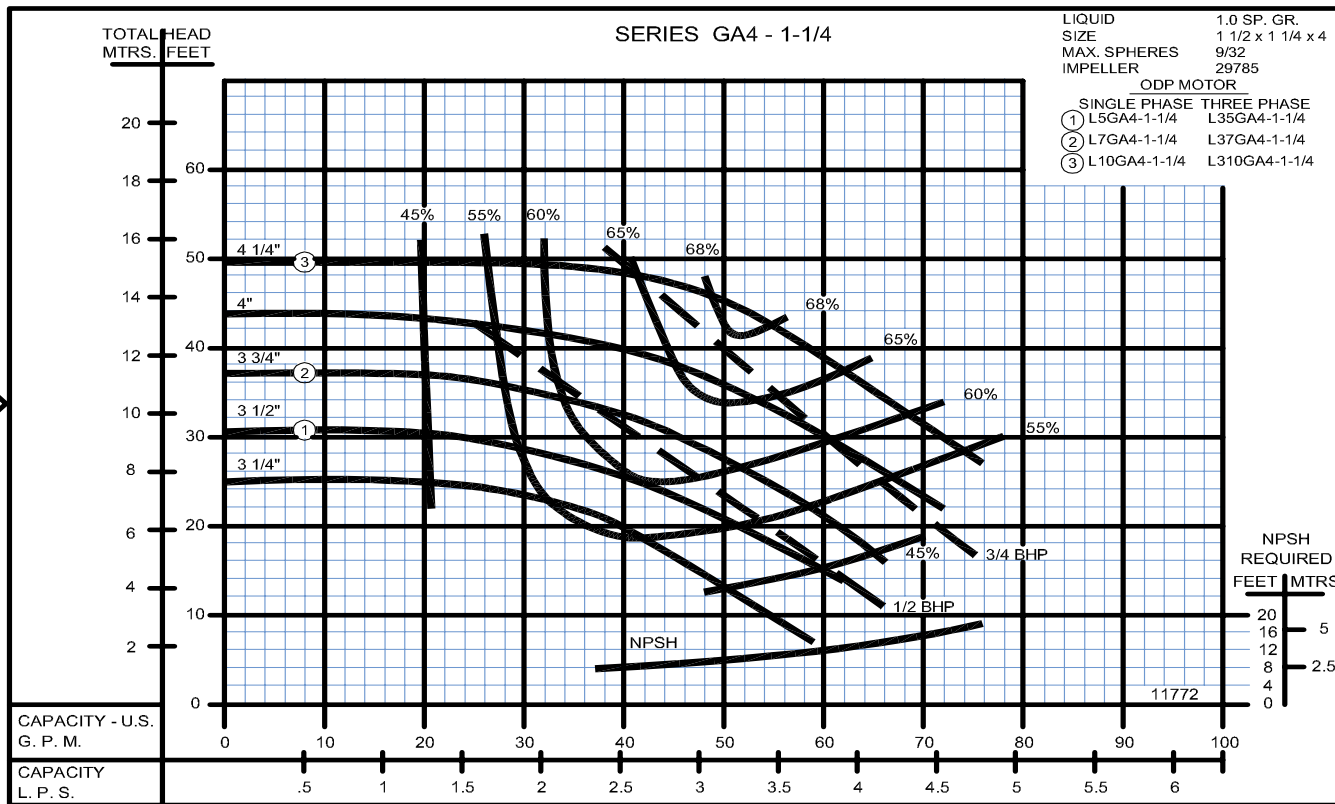


## Close Coupled Centrifugal Pumps

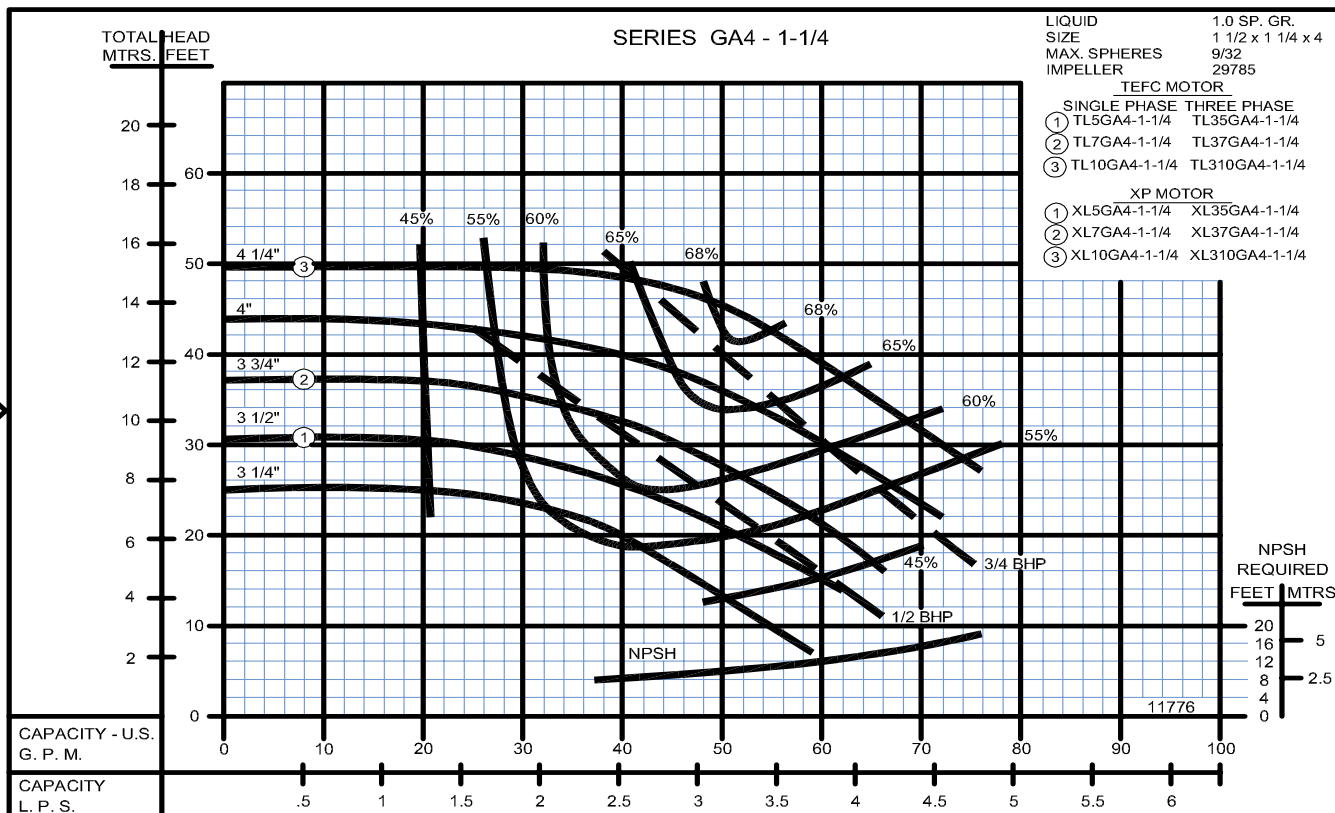


**Close Coupled Centrifugal Pumps**

2900 RPM



2900 RPM



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DATE 1/06

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