1750 RPM - 60Hz.
CAPACITIES TO 160 GPM (10 LPS)
HEADS TO 57 FEET (17.3 M)

1450 RPM - 50Hz.
CAPACITIES TO 140 GPM (8.8 LPS)
HEADS TO 40 FEET (12 M)

Individual performance curve should be checked for final selection.
Close Coupled End Suction

3500 RPM - 60Hz.
CAPACITIES TO 300 GPM (19 LPS)
HEADS TO 230 FEET (70 M)

2900 RPM - 50Hz.
CAPACITIES TO 280 GPM (18 LPS)
HEADS TO 152 FEET (46.3 M)

Individual performance curve should be checked for final selection.
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 BRONZE IMPELLER
Of the latest hydraulic design for maximum efficiency, impeller is balanced for vibration-free operation. It is precision fit to shaft with key drive and cap screw lock.

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

BRONZE SHAFT SLEEVE
Gasketed and keyed hook-type sleeve protects shaft from wear and corrosion in seal area.

MOTORS
JM Type motors have NEMA standard mounting flange, extended steel shaft and dual bearings. These motors offer the advantages of quiet operation, controlled shaft deflection for longer seal life, and bearings sized to provide good service life. All motors are supplied by manufacturers with national field service facilities.

FACTORY TESTED
After careful assembly and inspection, EVERY pump is factory tested and will meet Hydraulic Institute standards.

MAXIMUM OPERATING CONDITIONS

<p>| | |</p>
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<tr>
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<tr>
<td>TEMPERATURE</td>
<td>225°F (107°C)</td>
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<tr>
<td>(For Standard Buna-N Seal)</td>
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<tr>
<td>INLET PRESSURE</td>
<td>100 PSI (690kPa)</td>
</tr>
<tr>
<td>CASING WORKING PRESSURE</td>
<td>200 PSI (1379kPa)</td>
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MOTOR INFORMATION

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<tr>
<th>Voltage</th>
<th>RPM</th>
<th>Motor Information</th>
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<td>60 Hz</td>
<td>1750 RPM - ODP</td>
<td>60 Hz - 1750 RPM - ODP</td>
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<tr>
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<td>3500 RPM - ODP</td>
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<td>1 Hr. - 115/230 V</td>
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<td>3 &amp; 1/2 Hr. - 230 V</td>
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<tr>
<td>50 Hz</td>
<td>2900 RPM - ODP</td>
<td>Three Phase: 1 Hr. - 230/460 V</td>
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<td>50 Hz</td>
<td>1450 RPM - ODP</td>
<td>Three Phase: 380 Volt</td>
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<tr>
<td>Single Phase</td>
<td>1 Hr. - 110/220 Volt</td>
<td>Single Phase: 110/220 Volt</td>
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<tr>
<td>Three Phase</td>
<td>3 &amp; 71/2 Hr. - 230 Volt</td>
<td>Three Phase: 380 Volt</td>
</tr>
<tr>
<td>Voltages may differ from some suppliers. Consult factory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload Protection: All motors must be installed with magnetic starter which provides full overload protection on all legs. Failure to use correct starter and overloads will void motor warranty.</td>
<td></td>
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GA6 Series pumps are not available with 7-1/2 HP Totally Enclosed or Explosion Proof motors.

MATERIALS OF CONSTRUCTION

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<thead>
<tr>
<th>PART</th>
<th>ALL IRON</th>
<th>BRONZE FITTED</th>
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<tr>
<td>Adapter</td>
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<td>Cast Iron</td>
<td>Bronze</td>
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<td>Carbon-Ceramic SS - Buna-N</td>
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</table>

(*) Does NOT include GA7-1½.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV
### Series: GA6-1 1/2, GA6-2, GA7-1 1/4, GA7-1 1/2

**Dimensions**

**Close Coupled End Suction**

![Diagram of close coupled end suction pump](https://via.placeholder.com/150)

**Dimensions in Inches**

<table>
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<tr>
<th>Model</th>
<th>HP</th>
<th>Motor Frame Size</th>
<th>Disc NPT</th>
<th>Suction NPT</th>
<th>A</th>
<th>AB</th>
<th>B</th>
<th>CP</th>
<th>D</th>
<th>DD</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<th>L</th>
<th>X</th>
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<td>143JM</td>
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<tr>
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</tbody>
</table>

**Dimensions shown above are approximate maximum dimensions for standard pumps equipped with ODP motors.**
### DIMENSIONS IN MILLIMETERS

| MODEL                  | 1 Phase | 3 Phase | HP    | MOTOR FRAMESIZE | DISC NPT (in) | SUCT NPT (in) | A   | AB  | B   | CP  | D   | DD  | E   | F   | G   | H   | L   | X   | Y   | Z   |
|------------------------|---------|---------|-------|-----------------|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 104GA6-1½               | 1       | 1       | 143JM | 1              | 178           | 227           | 127 | 402 | 109 | 89  | 70  | 51  | 9.5 | 9   | 244 | 121 | 65  | 97  |
| 155GA6-1½               | 1 ½     | 1 ½     | 143JM | 1 ½            | 178           | 227           | 127 | 402 | 109 | 89  | 70  | 51  | 9.5 | 9   | 244 | 121 | 65  | 97  |
| 20GA6-1½                | 2       | 2       | 145JM | 2              | 178           | 227           | 152 | 427 | 109 | 89  | 70  | 64  | 9.5 | 9   | 244 | 121 | 65  | 97  |
| 30GA6-1½                | 3       | 3       | 145JM | 3              | 178           | 227           | 152 | 427 | 109 | 89  | 70  | 64  | 9.5 | 9   | 244 | 121 | 65  | 97  |
| 50GA6-1½                | 5       | 5       | 182JM | 5              | 178           | 227           | 152 | 427 | 109 | 89  | 70  | 64  | 9.5 | 9   | 244 | 121 | 65  | 97  |
|                        |         | 7 ½     | 184JM | 7 ½            | 178           | 227           | 151 | 466 | 111 | 95  | 70  | 64  | 9.5 | 9   | 123 | 121 | 65  | 97  |
| 104GA6-2                | 1       | 1       | 143JM | 2              | 178           | 227           | 127 | 408 | 117 | 89  | 70  | 51  | 9.5 | 9   | 251 | 138 | 70  | 102 |
| 155GA6-2                | 1 ½     | 1 ½     | 145JM | 2 ½            | 178           | 227           | 152 | 433 | 117 | 89  | 70  | 64  | 9.5 | 9   | 251 | 138 | 70  | 102 |
| 30GA6-2                 | 3       | 3       | 145JM | 3              | 178           | 227           | 152 | 433 | 117 | 89  | 70  | 64  | 9.5 | 9   | 251 | 138 | 70  | 102 |
| 50GA6-2                 | 5       | 5       | 182JM | 5              | 178           | 227           | 151 | 466 | 111 | 95  | 70  | 64  | 9.5 | 9   | 270 | 138 | 70  | 102 |
|                        |         | 7 ½     | 184JM | 7 ½            | 178           | 227           | 151 | 466 | 111 | 95  | 70  | 64  | 9.5 | 9   | 270 | 138 | 70  | 102 |
| 30GA7-1¼                | 3       | 3       | 145JM | 1 ¼            | 178           | 227           | 146 | 452 | 117 | 95  | 70  | 57  | 10  | 270 | 138 | 70  | 102 |
| 50GA7-1¼                | 5       | 5       | 182JM | 1 ¼            | 178           | 227           | 146 | 452 | 117 | 95  | 70  | 57  | 10  | 270 | 138 | 70  | 102 |
|                        |         | 7 ½     | 184JM | 1 ½            | 178           | 227           | 151 | 478 | 117 | 95  | 70  | 64  | 9.5 | 8.7 | 260 | 143 | 84  | 103 |
| 104GA7-1½               | 1       | 1       | 143JM | 1 ½            | 178           | 227           | 127 | 419 | 117 | 95  | 70  | 57  | 10  | 262 | 152 | 84  | 108 |
| 155GA7-1½               | 1 ½     | 1 ½     | 145JM | 2              | 178           | 227           | 152 | 433 | 117 | 95  | 70  | 64  | 9.5 | 9   | 251 | 138 | 70  | 102 |
| 30GA7-1½                | 3       | 3       | 145JM | 3              | 178           | 227           | 152 | 433 | 117 | 95  | 70  | 64  | 9.5 | 9   | 251 | 138 | 70  | 102 |
| 50GA7-1½                | 5       | 5       | 182JM | 5              | 178           | 227           | 152 | 454 | 117 | 95  | 70  | 64  | 9.5 | 9   | 270 | 138 | 70  | 102 |
|                        |         | 7 ½     | 184JM | 7 ½            | 178           | 227           | 152 | 454 | 117 | 95  | 70  | 64  | 9.5 | 9   | 270 | 138 | 70  | 102 |
| 75GA7-1½                | 5       | 5       | 182JM | 7 ½            | 178           | 227           | 179 | 527 | 133 | 108 | 70  | 16  | 10  | 303 | 152 | 84  | 108 |
|                        |         | 7 ½     | 184JM | 7 ½            | 178           | 227           | 179 | 527 | 133 | 108 | 70  | 16  | 10  | 303 | 152 | 84  | 108 |
| 3100GA7-1½              | 10      | 10      | 213JM | 10             | 178           | 227           | 179 | 527 | 133 | 108 | 70  | 16  | 10  | 303 | 152 | 84  | 108 |

DIMENSIONS SHOWN ABOVE ARE APPROXIMATE MAXIMUM DIMENSIONS FOR STANDARD PUMPS EQUIPPED WITH ODP MOTORS.
Series: 4GA6-2
60 Hz. Performance

Close Coupled End Suction

TOTAL HEAD MTR. FEET

PE = (1.00)
LIQUID = 1.0 SP. GR.
SIZE = 2 x 2 1/2
MAX. SPH. = 13/32" IMPELLER = 9230

Series: 4GA6-2
ALL MODELS UTILIZE MOTOR SERVICE FACTOR

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<th>12</th>
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</table>

CAPACITY - U.S.
G. P. M.

0 25 50 75 100 125 150 175 200 225 250
0 5 10 15 20 25 30 35 40 45
0 2.5 5 7.5 10 12.5 15 17.5

CAPACITY - L.P.S.

0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 27.5 30 32.5 35 37.5 40 42.5 45 47.5 50

Series: 4GA6-2
12/17
SERIES GA7-1-1/4

LIQUID: 1.0 SP. GR.
SIZE: 1-1/4 x 1-1/2
MAX. SPHERES: 1/4"
IMPELLER: 22292

SINGLE PHASE: 30GA7-1-1/4, 50GA7-1-1/4, 75GA7-1-1/4
THREE PHASE: 330GA7-1-1/4, 350GA7-1-1/4, 375GA7-1-1/4

PEICL: 0.82

T30GA7-1-1/4 T330GA7-1-1/4 T350GA7-1-1/4
T375GA7-1-1/4

XP MOTOR:
SINGLE PHASE: X30GA7-1-1/4, X330GA7-1-1/4, X350GA7-1-1/4
THREE PHASE: X375GA7-1-1/4

PEL:
0.82

LIQUID:
1.0 SP. GR.

SERIES GA7-1-1/4

ALL MODELS UTILIZE MOTOR SERVICE FACTOR

3500 RPM

A Crane Co. Company
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598
Close Coupled End Suction

Series: GA7-1 1/2

60 Hz Performance

NPSH REQUIRED FEET MTRS.

TYPICAL CURVE SELECTION

PEL : 0.86
LIQUID 1.0 SP. GR.
SIZE 1 1/2 x 2
MAX. SPHERES 7 1/8" IMPELLER 22841
SHP MOTOR:

SINGLE-PHASE THREE-PHASE
1 50GAA7-1 1/2 35GAA7-1 1/2
2 75GAA7-1 1/2 375GAA7-1 1/2
3 310GAA7-1 1/2

CAPACITY - U.S.
G. P. M.

CAPACITY
L. P. S.

TYPICAL CURVE SELECTION

PEL : 0.86
LIQUID 1.0 SP. GR.
SIZE 1 1/2 x 2
MAX. SPHERES 7 1/8" IMPELLER 22841

TEFC MOTOR:

SINGLE-PHASE THREE-PHASE
1 T375GAA7-1 1/2
2 T310GAA7-1 1/2

XP MOTOR:

SINGLE-PHASE THREE-PHASE
1 X375GAA7-1 1/2
2 X310GAA7-1 1/2

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CRANE PUMPS & SYSTEMS
A Crane Co. Company
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598
Series: 4GA6-1½
50 Hz Performance

Close Coupled End Suction

LIQUID: 1.0 SP. GR.
SIZE: 1-1/2 x 2
MAX. SPHERES: 1/4"
IMPELLER: 9928

ODP MOTOR
SINGLE PHASE THREE PHASE
L54GA6-1-1/2 L354GA6-1-1/2

TEFC MOTOR
SINGLE PHASE THREE PHASE
TL54GA6-1-1/2 TL354GA6-1-1/2

XP MOTOR
SINGLE PHASE THREE PHASE
XL54GA6-1-1/2 XL354GA6-1-1/2

CRANE
PUMPS & SYSTEMS
A Crane Co. Company
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Close Coupled End Suction

Series: GA6-1\(\frac{1}{2}\)

50 Hz. Performance

LIQUID: 1.0 SP. GR.
SIZE: 1-1/2 x 2
MAX. SPHERES: 1/4"
IMPELLER: 9928

ODP MOTOR
SINGLE PHASE
L10GA6-1-1/2
L15GA6-1-1/2
L20GA6-1-1/2
L30GA6-1-1/2
L50GA6-1-1/2

THREE PHASE
L310GA6-1-1/2
L315GA6-1-1/2
L320GA6-1-1/2
L330GA6-1-1/2
L350GA6-1-1/2

TEFC MOTOR
SINGLE PHASE
XL10GA6-1-1/2
XL15GA6-1-1/2
XL20GA6-1-1/2
XL30GA6-1-1/2
XL50GA6-1-1/2

THREE PHASE
XL310GA6-1-1/2
XL315GA6-1-1/2
XL320GA6-1-1/2
XL330GA6-1-1/2
XL350GA6-1-1/2

XP MOTOR
SINGLE PHASE
TL10GA6-1-1/2
TL15GA6-1-1/2
TL20GA6-1-1/2
TL30GA6-1-1/2
TL50GA6-1-1/2

THREE PHASE
TL310GA6-1-1/2
TL315GA6-1-1/2
TL320GA6-1-1/2
TL330GA6-1-1/2
TL350GA6-1-1/2
Series: GA6-2

50 Hz. Performance

Close Coupled End Suction

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CRANE®
A Crane Co. Company

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

PUMPS & SYSTEMS
### Series: GA7-1\(\frac{1}{4}\)

#### 50 Hz. Performance

**Close Coupled End Suction**

**LIQUID:** 1.0 SP. GR.

**SIZE:** 1-\(\frac{1}{4}\) x 1-\(\frac{1}{2}\)

**MAX. SPHERES:** \(1/4''\)

**IMPELLER:** 22292

**CSP MOTOR**

**SINGLE PHASE**

- L20GA7-1-\(\frac{1}{4}\)
- L30GA7-1-\(\frac{1}{4}\)
- L50GA7-1-\(\frac{1}{4}\)

**THREE PHASE**

- L320GA7-1-\(\frac{1}{4}\)
- L330GA7-1-\(\frac{1}{4}\)
- L350GA7-1-\(\frac{1}{4}\)

**TEFC MOTOR**

**SINGLE PHASE**

- TL20GA7-1-\(\frac{1}{4}\)
- TL30GA7-1-\(\frac{1}{4}\)
- TL50GA7-1-\(\frac{1}{4}\)

**THREE PHASE**

- TL320GA7-1-\(\frac{1}{4}\)
- TL330GA7-1-\(\frac{1}{4}\)
- TL350GA7-1-\(\frac{1}{4}\)

**XP MOTOR**

**SINGLE PHASE**

- XL20GA7-1-\(\frac{1}{4}\)
- XL30GA7-1-\(\frac{1}{4}\)
- XL50GA7-1-\(\frac{1}{4}\)

**THREE PHASE**

- XL320GA7-1-\(\frac{1}{4}\)
- XL330GA7-1-\(\frac{1}{4}\)
- XL350GA7-1-\(\frac{1}{4}\)

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**LIQUID:** 1.0 SP. GR.

**SIZE:** 1-\(\frac{1}{4}\) x 1-\(\frac{1}{2}\)

**MAX. SPHERES:** \(\frac{5}{32}''\)

**IMPELLER:** 09680

**TEFC MOTOR**

**SINGLE PHASE**

- TL20GA7-1-\(\frac{1}{4}\)
- TL30GA7-1-\(\frac{1}{4}\)
- TL50GA7-1-\(\frac{1}{4}\)

**THREE PHASE**

- TL320GA7-1-\(\frac{1}{4}\)
- TL330GA7-1-\(\frac{1}{4}\)
- TL350GA7-1-\(\frac{1}{4}\)

**XP MOTOR**

**SINGLE PHASE**

- XL20GA7-1-\(\frac{1}{4}\)
- XL30GA7-1-\(\frac{1}{4}\)
- XL50GA7-1-\(\frac{1}{4}\)

**THREE PHASE**

- XL320GA7-1-\(\frac{1}{4}\)
- XL330GA7-1-\(\frac{1}{4}\)
- XL350GA7-1-\(\frac{1}{4}\)
Series: 4GA7-1½

50 Hz Performance

Close Coupled End Suction

SERIES 4GA7-1-1/2

LIQUID: 1.0 SP. GR.
SIZE: 1-1/2 x 2
MAX. SPHERES: 7/16"
IMPELLER: 22841

ODP MOTOR
SINGLE PHASE
L4GA7-1-1/2
L54GA7-1-1/2
L74GA7-1-1/2
THREE PHASE
L34GA7-1-1/2
L354GA7-1-1/2
L534GA7-1-1/2

XP MOTOR
SINGLE PHASE
XL34GA7-1-1/2
XL354GA7-1-1/2
THREE PHASE
XL334GA7-1-1/2
XL374GA7-1-1/2

SERIES 4GA7-1-1/2

LIQUID: 1.0 SP. GR.
SIZE: 1-1/2 x 2
MAX. SPHERES: 7/16"
IMPELLER: 22841

TEFC MOTOR
SINGLE PHASE
L34GA7-1-1/2
L354GA7-1-1/2
L54GA7-1-1/2
THREE PHASE
L334GA7-1-1/2
L374GA7-1-1/2
L534GA7-1-1/2

1450 RPM