ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Marathon Electric M315* at our website: ***Click HERE***

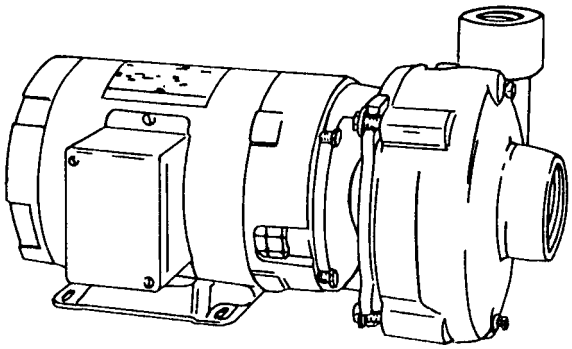
www.PumpAgents.com
PumpAgents.com - Click here for Pricing/Ordering

SECTION	2A
PAGE	28
ISSUED	2/03
REPLACES	12/01

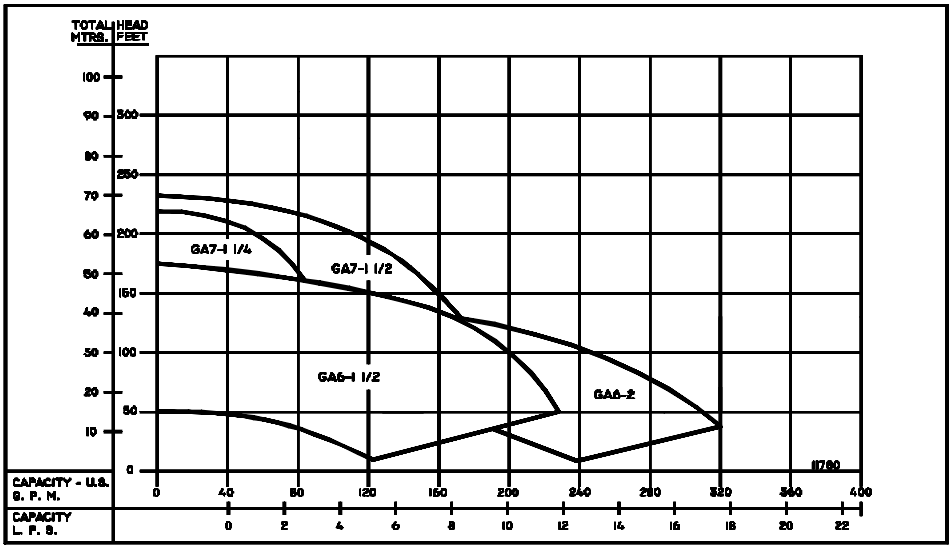
SERIES: GA7-1-1/4
GA6-1-1/2
GA6-2
GA7-1-1/2

CLOSED COUPLED CENTRIFUGAL PUMPS

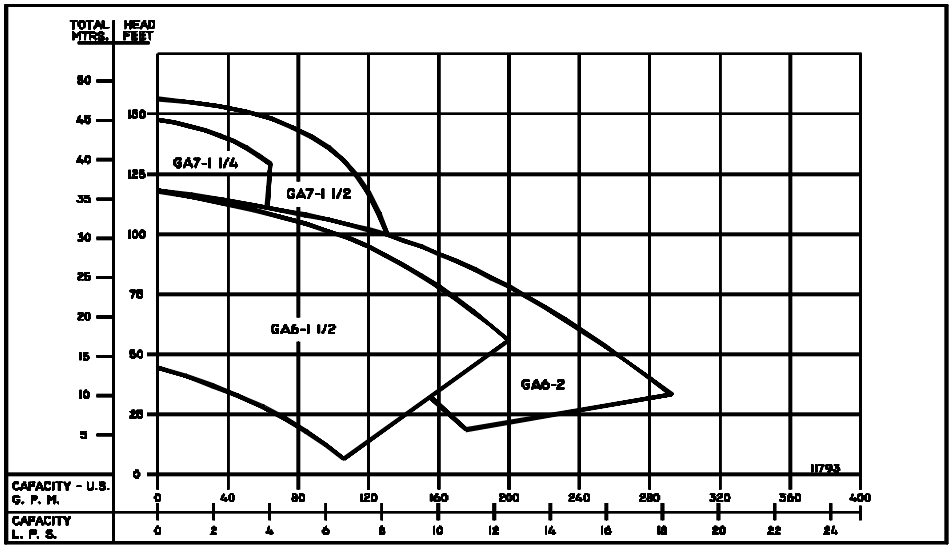
burks pumps®
420 Third Street
Piqua, Ohio 45356-0603



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



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



Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com
PumpAgents.com - buy pumps and parts online

www.PumpAgents.com

burks pumps®
420 Third Street
Piqua, Ohio 45356-0603

FEATURES

- **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	
TEMPERATURE (For Standard Buna-N Seal)	225°F (107°C)
INLET PRESSURE	100 PSI (690kpa)
CASING WORKING PRESSURE	200 PSI (1379kpa)

MOTOR INFORMATION
60 Hz - 1750 RPM - ODP
60 Hz - 3500 RPM - ODP
Single Phase: 1thru 2 Hp. - 115/230 V
3 & $7^1/_2$ Hp. - 230 V.
Three Phase: 1 thru 10 Hp. - 230/460 V
50 Hz - 2900 RPM - ODP
50 Hz - 1450 RPM - ODP
Single Phase: 110/220 Volt
Three Phase: 380 Volt

Voltages may differ from some suppliers. Consult factory. **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.

GA6 Series pumps are not available with 7-1/2 HP Totally Enclosed or Explosion Proof motors.

MATERIALS OF CONSTRUCTION

PART	BRONZE FITTED	ALL BRONZE	✧ALL IRON
Adapter	Cast Iron	Bronze	Cast Iron
Casing	Cast Iron	Bronze	Cast Iron
Shaft	Steel	Steel	Steel
Impeller	Bronze	Bronze	Cast Iron
Shaft Sleeve	Bronze	Bronze	#316 Stainless
Shaft Seal	Carbon-Ceramic S. Steel-Buna-N	Carbon-Ceramic S. Steel-Buna-N	Carbon-Ceramic S. Steel-Buna-N

✧ **Does NOT include GA7-$1^1/_2$**

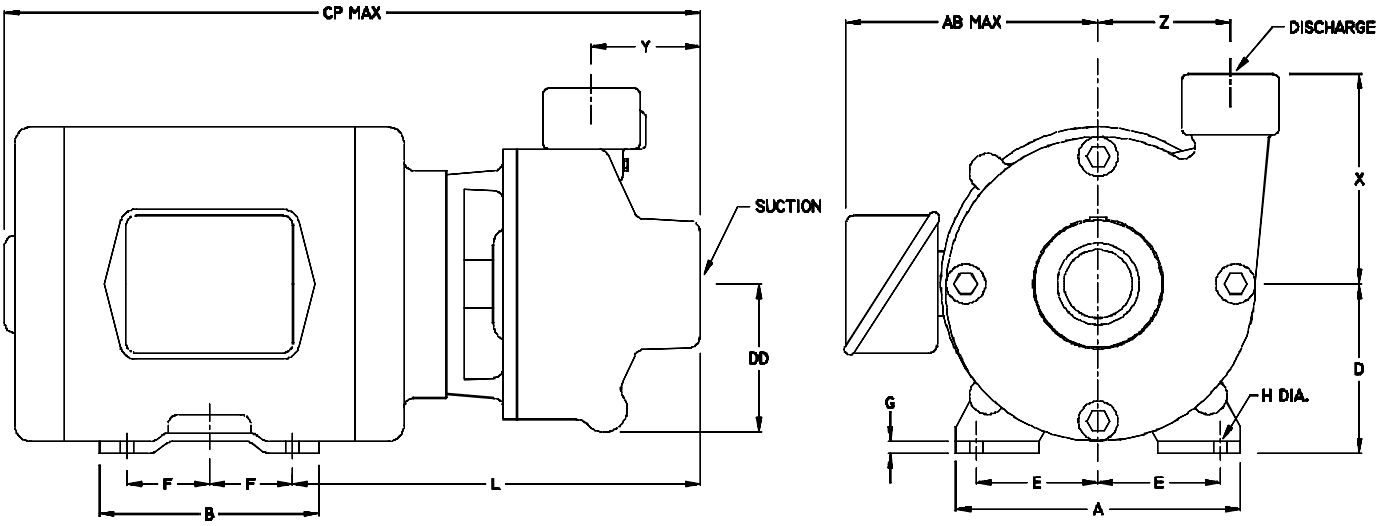
Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com
PumpAgents.com - buy pumps and parts online

www.PumpAgents.com

SECTION	2A
PAGE	30
ISSUED	2/03
REPLACES	12/01

burks pumps®
420 Third Street
Piqua, Ohio 45356-0603

DIMENSIONS



Catalog Number 1 Phase	Catalog Number 3 Phase	HP	Motor Frame Size	Disc. NPT	Suct. NPT	DIMENSIONS IN INCHES A	AB	B	CP	D	DD	E	F	G	H	L	X	Y	Z
30GA7-1 1/4	330GA7-1 1/4	3	145JM	1 1/4	1 1/2	7	8 15/16	6	17 7/16	3 1/2	4 1/2	2 3/4	2 1/2	3/8	11/32	10 1/4	5 5/8	3 5/16	4 1/16
50GA7-1 1/4	350GA71 1/4	5	182JM			8 3/4	9 7/8	5 3/4	18 3/16	4 1/2	4 1/2	3 3/4	2 1/4	1/2	13/32	11	5 5/8	3 5/16	4 1/16
-------	375GA7-1 1/4	7 1/2	184JM			8 3/4	9 7/8	6 3/4	19 3/16	4 1/2	4 1/2	3 3/4	2 3/4	1/2	13/32	11	5 5/8	3 5/16	4 1/16
104GA6-1 1/2	3104GA6-1 1/2	1	143JM	1 1/2	2	7	8 15/16	5	15 13/16	4 5/16	3 1/2	2 3/4	2	3/8	11/32	9 5/8	4 3/4	2 9/16	3 13/16
15GA6-1 1/2	315GA6-1 1/2	1 1/2	143JM			7	8 15/16	5	15 13/16	4 5/16	3 1/2	2 3/4	2	3/8	11/32	9 5/8	4 3/4	2 9/16	3 13/16
20GA6-1 1/2	320GA6-1 1/2	2	145JM			7	8 15/16	6	16 13/16	4 5/16	3 1/2	2 3/4	2 1/2	3/8	11/32	9 5/8	4 3/4	2 9/16	3 13/16
30GA6-1 1/2	330GA6-1 1/2	3	145JM			7	8 15/16	6	16 13/16	4 5/16	3 1/2	2 3/4	2 1/2	3/8	11/32	9 5/8	4 3/4	2 9/16	3 13/16
50GA6-1 1/2	350GA6-1 1/2	5	182JM			8 3/4	9 7/8	5 3/4	17 9/16	4 5/16	4 1/2	3 3/4	2 1/4	1/2	13/32	10 3/8	4 3/4	2 9/16	3 13/16
-------	375GA6-1 1/2	7 1/2	184JM			8 3/4	9 7/8	6 3/4	18 9/16	4 5/16	4 1/2	3 3/4	2 3/4	1/2	13/32	10 3/8	4 3/4	2 9/16	3 13/16
104GA6-2	3104GA6-2	1	143JM	2	2 1/2	7	8 15/16	5	16 1/16	4 5/8	3 1/2	2 3/4	2	3/8	11/32	9 7/8	5 7/16	2 3/4	4
154GA6-2	3154GA6-2	1 1/2	145JM			7	8 15/16	6	17 1/16	4 5/8	3 1/2	2 3/4	2 1/2	3/8	11/32	9 7/8	5 7/16	2 3/4	4
30GA6-2	330GA6-2	3	145JM	2	2 1/2	7	8 15/16	6	17 1/16	4 5/8	3 1/2	2 3/4	2 1/2	3/8	11/32	9 7/8	5 7/16	2 3/4	4
50GA6-2	350GA6-2	5	182JM			8 3/4	9 7/8	5 3/4	17 13/16	4 5/8	4 1/2	3 3/4	2 1/4	1/2	13/32	10 5/8	5 7/16	2 3/4	4
------	375GA6-2	7 1/2	184JM			8 3/4	9 7/8	6 3/4	18 13/16	4 5/8	4 1/2	3 3/4	2 3/4	1/2	13/32	10 5/8	5 7/16	2 3/4	4
104GA7-1 1/2	3104GA7-1 1/2	1	143JM	1 1/2	2	7	8 15/16	5	16 1/2	3 1/2	4 9/16	2 3/4	2	3/8	11/32	10 5/16	6	3 5/16	4 1/4
154GA7-1 1/2	3154GA7-1 1/2	1 1/2	145JM			7	8 15/16	6	17 1/2	3 1/2	4 9/16	2 3/4	2 1/2	3/8	11/32	10 5/16	6	3 5/16	4 1/4
50GA7-1 1/2	------	5	184JM	1 1/2	2	9	9 7/8	6 3/4	19 1/4	4 1/2	4 9/16	3 3/4	2 3/4	1/2	13/32	11 1/16	6	3 5/16	4 1/4
------	350GA7-1 1/2	5	182JM			9	9 7/8	5 3/4	18 1/4	4 1/2	4 9/16	3 3/4	2 1/4	1/2	13/32	11 1/16	6	3 5/16	4 1/4
75GA7-1 1/2	------	7 1/2	213JM			10 1/2	11 1/16	7 1/4	20 3/4	5 1/4	4 9/16	4 1/4	2 3/4	5/8	13/32	11 15/16	6	3 5/16	4 1/4
------	375GA7-1 1/2	7 1/2	184JM			9	9 7/8	6 3/4	19 1/4	4 1/2	4 9/16	3 3/4	2 3/4	1/2	13/32	11 1/16	6	3 5/16	4 1/4
------	3100GA7-1 1/2	10	213JM			10 1/2	11 1/16	7 1/4	20 3/4	5 1/4	4 9/16	4 1/4	2 3/4	5/8	13/32	11 15/16	6	3 5/16	4 1/4

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

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com
PumpAgents.com - buy pumps and parts online

www.PumpAgents.com

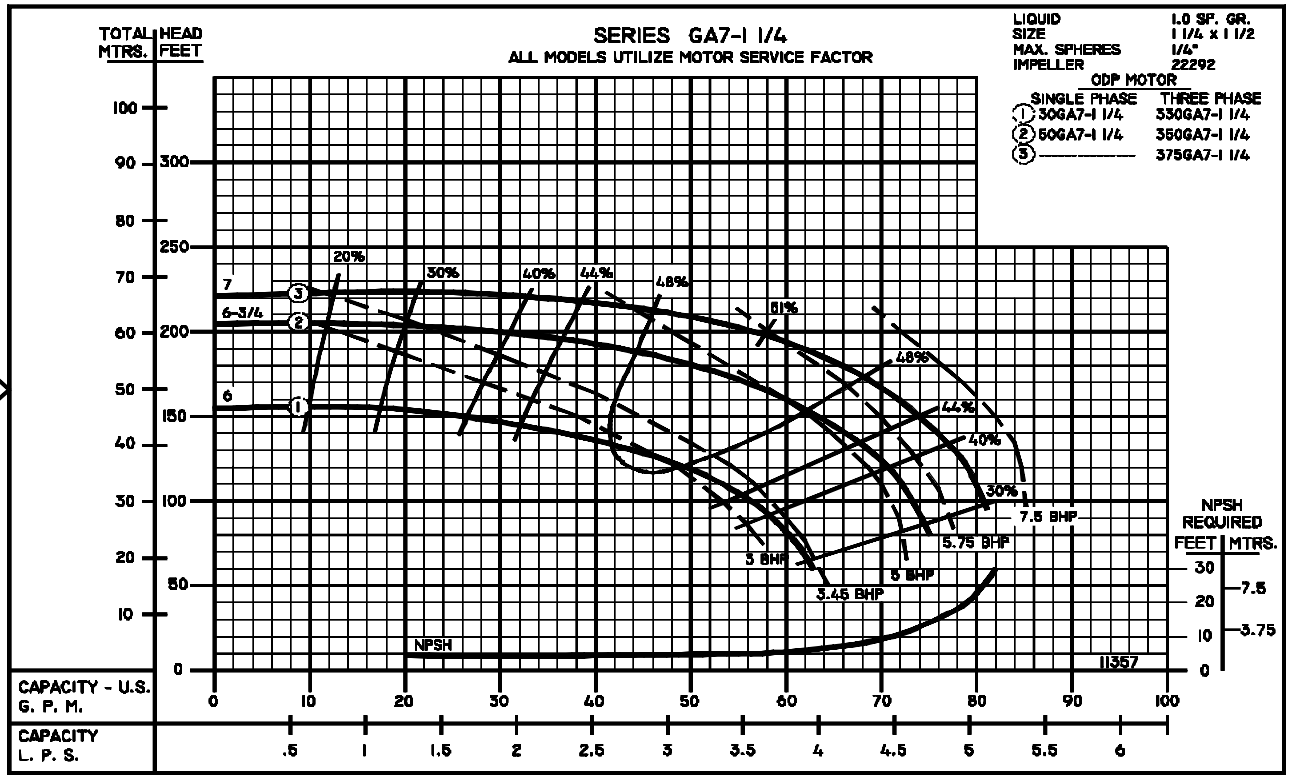
SECTION	2A
PAGE	32
ISSUED	2/03
REPLACES	12/01

60HZ PERFORMANCE CURVE

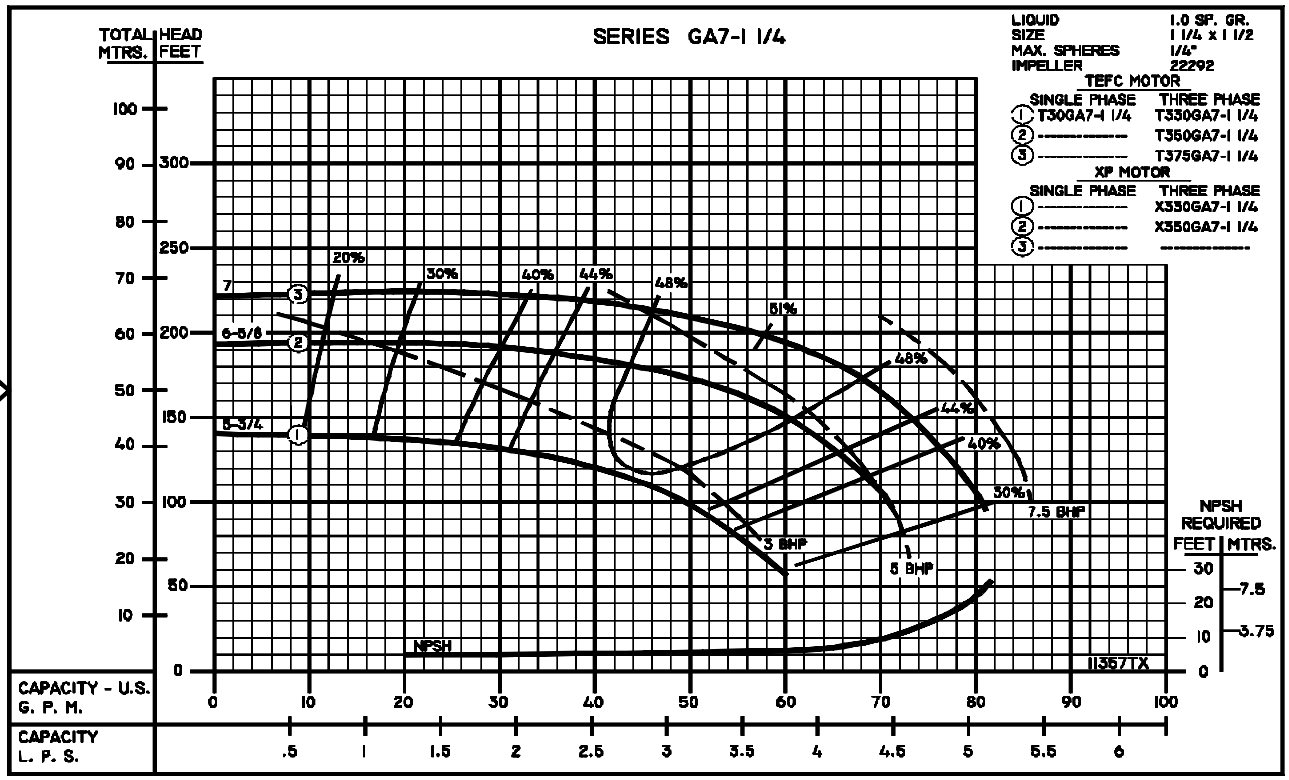
burks pumps®
420 Third Street
Piqua, Ohio 45356-0603

END SUCTION CENTRIFUGAL PUMPS

3500 RPM



3500 RPM

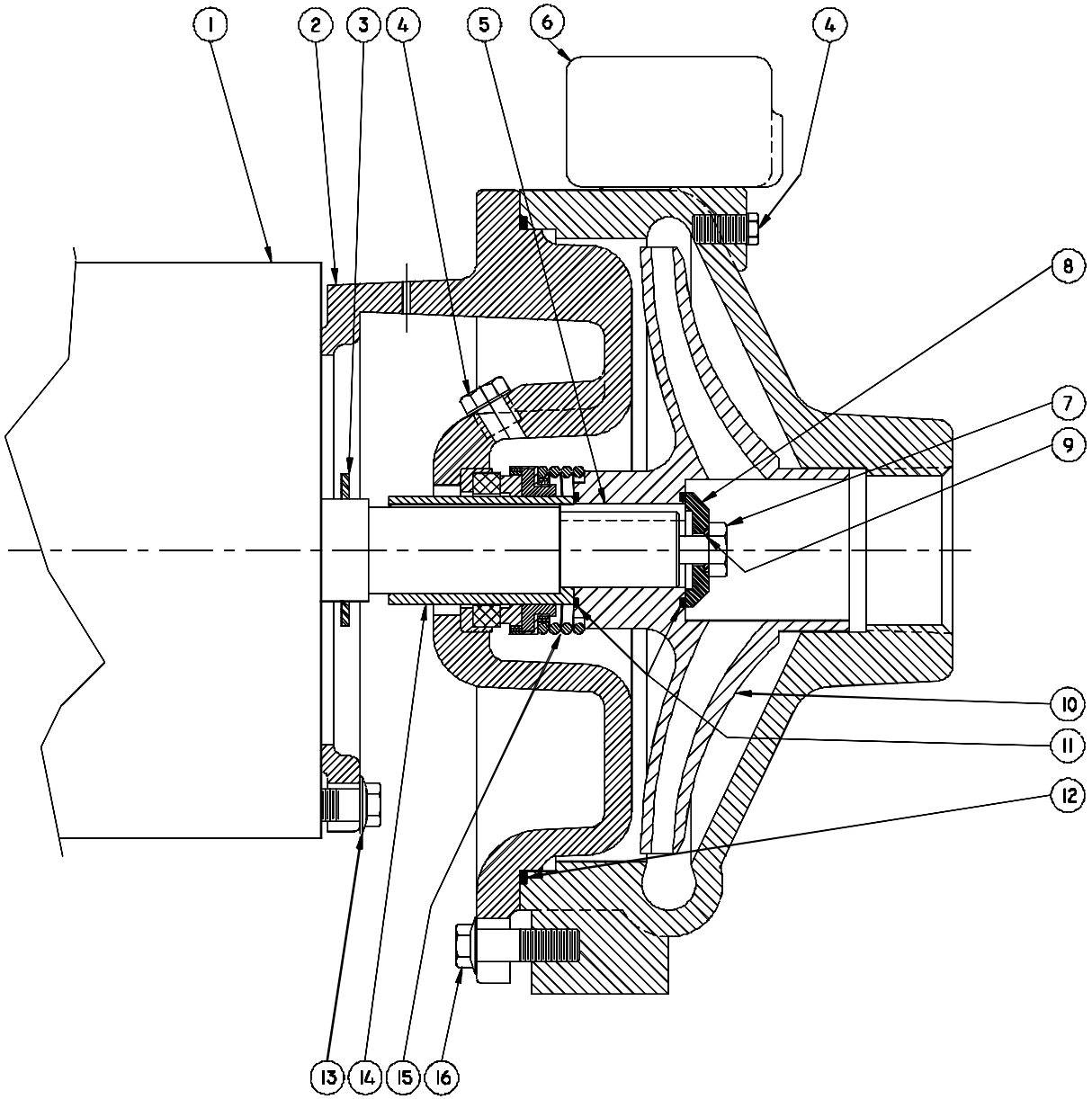


Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com
PumpAgents.com - buy pumps and parts online

www.PumpAgents.com

CCCP-8

1 - MOTORS			
RPM & PHASE	**PART NUMBER**	**HP**	**FRAME SIZE**
OPEN DRIP PROOF			
3500 RPM Single Phase (ODP)	09901 09902	3 5	182JM 184JM
3500 RPM Three Phase (ODP)	09905 09906 09907 09999	3 5 7.5 10	145JM 182JM 184JM 213JM
TOTALLY ENCLOSED			
3500 RPM Single Phase (TEFC)	21881 23990B	3 5	182JM 184JM
3500 RPM Three Phase (TEFC)	09947 09950 09951	3 5 7.5	182JM 184JM 213JM
EXPLOSION PROOF			
3500 RPM Three Phase (XP)	09953 09954	3 5	182JM 184JM



SERIES: GA7-1-1/4 CENTRIFUGAL PUMPS

File: GA7-125.dwg

PumpAgents.com - buy pumps and parts online
Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SCIENTIFIC | www.artisan-scientific.com

www.PumpAgents.com

PumpAgents.com - Click here for Pricing/Ordering

SYMBOL NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
2	22294	1	Adapter 180JM Frame
	22845	1	Adapter 213-215JM Frame
3	09918	1	Slinger Washer
4	00158	2	Pipe Plug - 1/8" Bronze
5	23014	1	Key
6	22293	1	Casing
7	1-529-1	1	Cap Screw-S.S.
8	22105-C	1	Washer - Bronze
9	22080	1	O-Ring Gasket - Buna N (Std)
	2-31005-012	1	O-Ring Gasket - Viton
	22093	1	O-Ring Gasket - EPDM*
10	22292-6.00	1	Impeller-30GA7-1-1/4 & 330GA7-1-1/4
	22292-6.75	1	Impeller-50GA7-1-1/4 & 350GA7-1-1/4
	22292-7.00	1	Impeller-375GA7-1-1/4
11	22083	2	O-Ring Gasket - Buna N (Std)
	22084	2	O-Ring Gasket - Viton
	22094	2	O-Ring Gasket - EPDM*
12	22321	1	O-Ring Gasket - Buna N (Std)
	22322	1	O-Ring Gasket - Viton
	22324	1	O-Ring Gasket - EPDM*
13	21236	4	Cap Screw
14	22063-C	1	Shaft Sleeve - Bronze
15	09917	1	Mechanical Seal - Buna N (Std)
	09926	1	Mechanical Seal - Viton
	21271	1	Mechanical Seal - EPDM*
16	22803	4	Cap Screw
DIFFERING PARTS FOR ALL BRONZE CONSTRUCTION			
2	22294-A	1	Adapter-Bronze
4	01691-A	2	Pipe Plug, 1/8" - Bronze
6	22293-A	1	Casing - Bronze
7	03289	1	Cap Screw - Bronze
DIFFERING PARTS FOR ALL IRON CONSTRUCTION			
4	00158	2	Pipe Plug - 1/8" Steel
8	22105-A	1	Washer - Steel
10	Not Available	1	Impeller-Iron
14	22063-A	1	Shaft Sleeve - S.S.

* For hot water or caustic service.

SERIES: GA7-1-1/4

CCCP-9

PumpAgents.com - buy pumps and parts online

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SCIENTIFIC | www.artisan-scientific.com

For technical advice or service please take your pump into your local pump service center.
To order pump or parts or for pricing please go to the following links :

Burks Pumps Home >>

Burks Pumps stock list >>

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP