

## SERIES 4280 | END SUCTION MOTOR MOUNTED CLOSED-COUPLED | 3 × 2 × 13 | SUBMITTAL

File No: 42.791  
Date: SEPTEMBER 10, 2012  
Supersedes: 42.791  
Date: DECEMBER 15, 2010

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Order no: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

### PUMP DESIGN DATA

No. of pumps: \_\_\_\_\_ Tag: \_\_\_\_\_  
 Capacity: \_\_\_\_\_ USgpm (L/s) Head: \_\_\_\_\_ ft (m)  
 Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_  
 Temperature: \_\_\_\_\_ °F (°C) Specific gravity: \_\_\_\_\_  
 Suction: 3" (75mm) Lugged  
 Discharge: 2" (50mm) Flanged

### MOTOR DESIGN DATA

HP: \_\_\_\_\_ RPM: \_\_\_\_\_ Frame size: \_\_\_\_\_ Enclosure: \_\_\_\_\_  
 Volts: \_\_\_\_\_ Hertz: 60 Hz Phase: 3  
 Efficiency:  Energy EFF 12.11  NEMA premium 12.12

### MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
<b>Construction</b>	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
<b>Casing</b>	Cast iron	Ductile iron
<b>Adapter</b>	Cast iron	Ductile iron

**Impeller:** Bronze

**Gasket:** Confined non-asbestos fiber

**Shaft:** Carbon steel

**Shaft sleeve:** Bronze

### MAXIMUM PUMP OPERATING CONDITIONS

#### ANSI 125

175 psig at 150°F (12 bars at 65°C)  
 140 psig at 250°F (10 bars at 121°C)

#### ANSI 250

300 psig at 150°F (20 bars at 65°C)  
 250 psig at 250°F (17 bars at 121°C)

- Tolerance of ±0.125" (±3 mm) should be used
- See performance curves on page 3
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports

### MECHANICAL SEAL DATA

**Seal type:** 2A **Stationary seat:** Silicone carbide  
**Secondary seal:** EPDM **Rotating hardware:** Stainless steel  
**Spring:** Stainless steel

### OPTIONAL EQUIPMENT

FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
<b>Temperature</b>	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
<b>Rotating face</b>	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
<b>Seat elastomer</b>	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
<b>Material code</b>	SCSC L EPSS 2A	SCSC O EPSS 2A	C-SC L EPSS 2A	ACSC O EPSS 2A	C-SC L EPSS 2A	C-SC O EPSS 2A

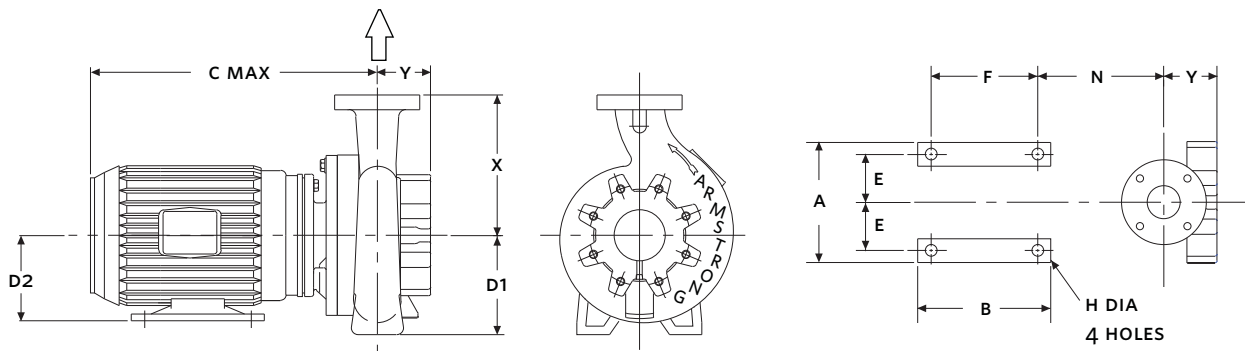
MOTOR	HP @ RPM (ODP & TEFC)		MAX. DIMENSIONS INCHES (mm)										ASSEMBLY WEIGHT*	
	1800	1200	A	B	C MAX		D1	D2	E	F	H	N	lbs (kgs)	
FRAME					ODP	TEFC							ODP	TEFC
213JP	—	3	10.50 (267)	7.00 (178)	22.00 (559)	23.00 (584)	10.00 (254)	5.25 (133)	4.25 (108)	5.50 (140)	0.41 (10)	12.13 (308)	274 (124.4)	290 (131.7)
215JP	10	—	10.50 (267)	8.50 (216)	23.00 (584)	24.00 (610)	10.00 (254)	5.25 (133)	4.25 (108)	7.00 (178)	0.41 (10)	12.13 (308)	298 (135.3)	308 (139.8)
254JM	15	—	12.38 (314)	10.50 (267)	22.00 (559)	24.00 (610)	10.00 (254)	6.25 (159)	5.00 (127)	8.25 (210)	0.53 (13)	9.75 (248)	343 (155.7)	393 (178.4)
256JM	20	—	12.38 (314)	12.25 (311)	24.00 (610)	26.00 (660)	10.00 (254)	6.25 (159)	5.00 (127)	10.00 (254)	0.53 (13)	9.75 (248)	378 (171.6)	448 (203.4)
284JP	25	—	13.88 (353)	12.25 (311)	26.88 (683)	26.00 (660)	10.00 (254)	7.00 (178)	5.50 (140)	9.50 (241)	0.53 (13)	12.88 (327)	393 (178.4)	483 (219.3)

**PUMP DIMENSIONS**

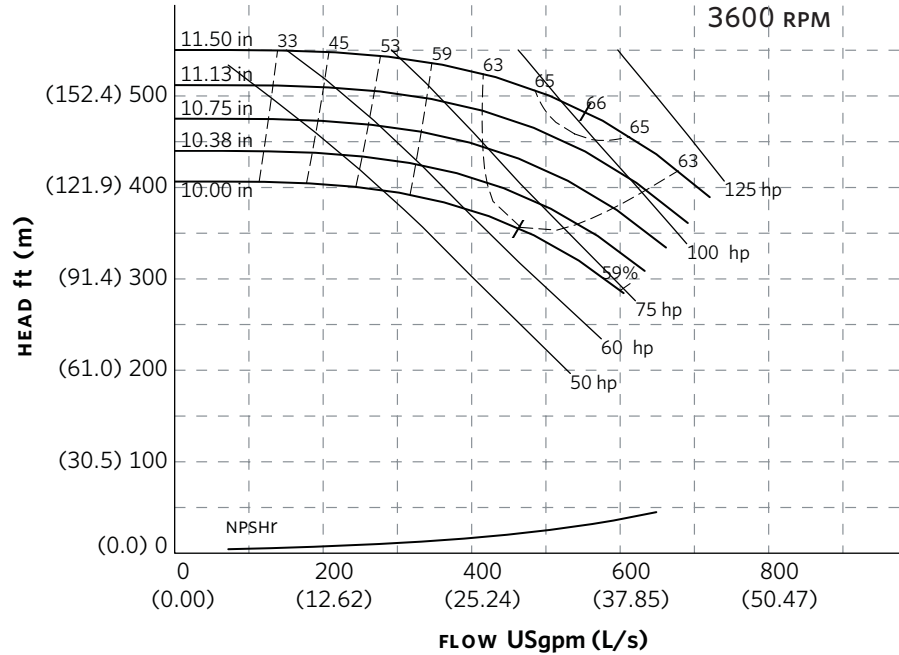
inches (mm)

X	Y
11.50 (292)	4.00 (102)

\*Assembly weight combines pump and motor.



## SERIES 4280 PERFORMANCE CURVES



**Curve number**  
PT176-3-2-3600

**Series**  
4030  
4280

**Size**  
3 × 2 × 13

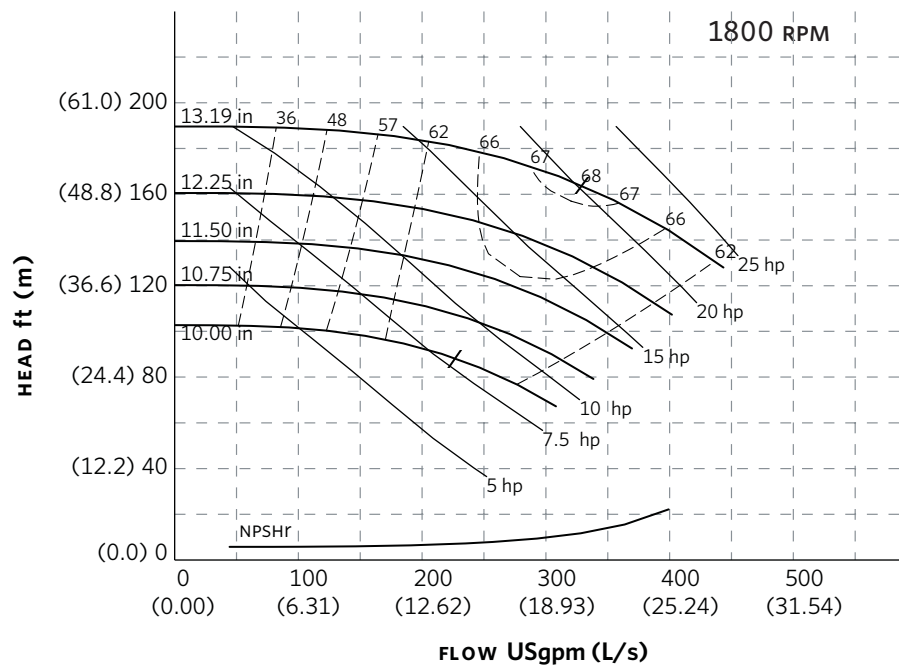
**RPM**  
3600

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4030 FR 405 MAX.  
4280 all ratings

Performance  
guaranteed only  
at operating point  
indicated.

Curve shown for  
clear, cold water  
- SP. GR. 1.0000



**Curve number**  
PT175-3-0-1800

**Series**  
4030  
4280

**Size**  
3 × 2 × 13

**RPM**  
1800

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4030 FR 213 MIN.  
4280 FR 213 MIN.

Performance  
guaranteed only  
at operating point  
indicated.

Curve shown for  
clear, cold water  
- SP. GR. 1.0000

Performance curves are for reference only.  
Confirm current performance data with Armstrong ACE ONLINE selection software.

**TORONTO**

23 BERTRAND AVENUE  
TORONTO, ONTARIO  
CANADA  
M1L 2P3  
+1 416 755 2291

**BUFFALO**

93 EAST AVENUE  
NORTH TONAWANDA, NEW YORK  
U.S.A.  
14120-6594  
+1 716 693 8813

**BIRMINGHAM**

HEYWOOD WHARF, MUCKLOW HILL  
HALESOWEN, WEST MIDLANDS  
UNITED KINGDOM  
B62 8DJ  
+44 (0) 8444 145 145

**MANCHESTER**

WENLOCK WAY  
MANCHESTER  
UNITED KINGDOM  
M12 5JL  
+44 (0) 8444 145 145

**BANGALORE**

#59, FIRST FLOOR, 3RD MAIN  
MARGOSA ROAD, MALLESWARAM  
BANGALORE, INDIA  
560 003  
+91 (0) 80 4906 3555

**SHANGHAI**

NO. 1619 HU HANG ROAD, XI DU TOWNSHIP  
FENG XIAN DISTRICT, SHANGHAI  
P.R.C.  
201401  
+86 21 3756 6696

ARMSTRONG INTEGRATED  
ESTABLISHED 1934

ARMSTRONGINTEGRATED.COM

MAKING  
ENERGY  
MAKE  
SENSE™