

SERIES 4280 | END SUCTION MOTOR MOUNTED CLOSED-COUPLED | 4 × 3 × 10 | SUBMITTAL

File No: 42.70
Date: SEPTEMBER 10, 2012
Supersedes: 42.70
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: 4" (100mm) Flanged
 Discharge: 3" (75mm) 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
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	Cast iron	Ductile iron
Adapter	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)
Temperature	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)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
Material code	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

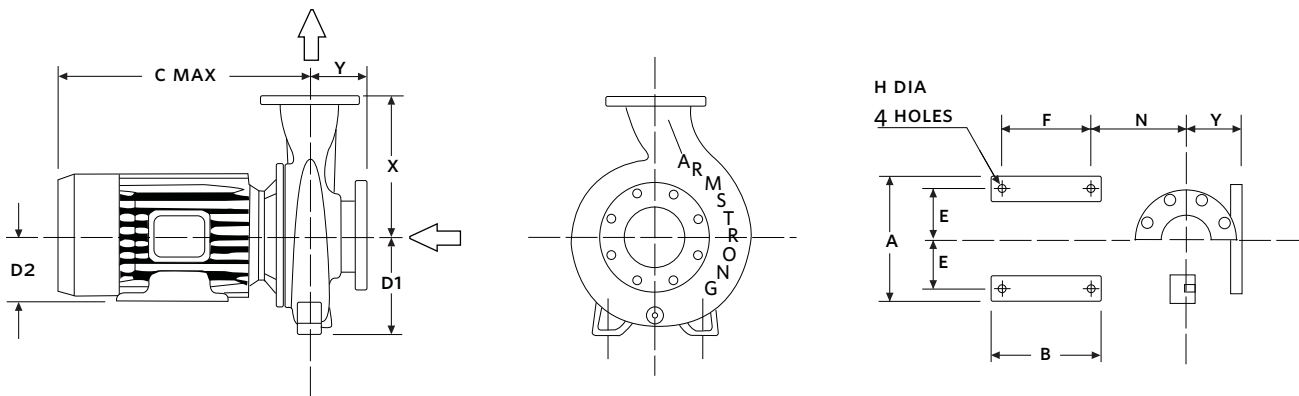
MOTOR	HP @ RPM (ODP & TEFC)		MAX. DIMENSIONS INCHES (mm)										ASSEMBLY WEIGHT*	
	1800	1200	A	B	C MAX		D1	D2	E	F	H	N	lbs (kgs)	
FRAME					ODP	TEFC							ODP	TEFC
182JM	—	1.5	9.00 (229)	5.75 (146)	15.00 (381)	17.00 (432)	8.25 (210)	4.50 (114)	3.75 (95)	4.50 (114)	0.41 (10)	7.38 (187)	192 (87.2)	194 (88.1)
184JM	5	—	9.00 (229)	6.75 (172)	16.00 (406)	18.00 (457)	8.25 (210)	4.50 (114)	3.75 (95)	5.50 (140)	0.41 (10)	7.38 (187)	196 (89.0)	201 (91.3)
213JP	7.5	2 & 3	10.50 (267)	7.00 (178)	21.00 (533)	23.00 (584)	8.25 (210)	5.25 (133)	4.25 (108)	5.50 (140)	0.41 (10)	12.13 (308)	226 (102.6)	236 (107.1)
215JP	10	5	10.50 (267)	8.50 (216)	23.00 (584)	25.00 (635)	8.25 (210)	5.25 (133)	4.25 (108)	7.00 (178)	0.41 (10)	12.13 (308)	241 (109.4)	258 (117.1)
254JM	15	—	12.38 (314)	10.50 (267)	22.00 (559)	24.00 (610)	8.25 (210)	6.25 (159)	5.00 (127)	8.25 (210)	0.53 (13)	9.75 (248)	286 (129.8)	336 (152.5)

PUMP DIMENSIONS

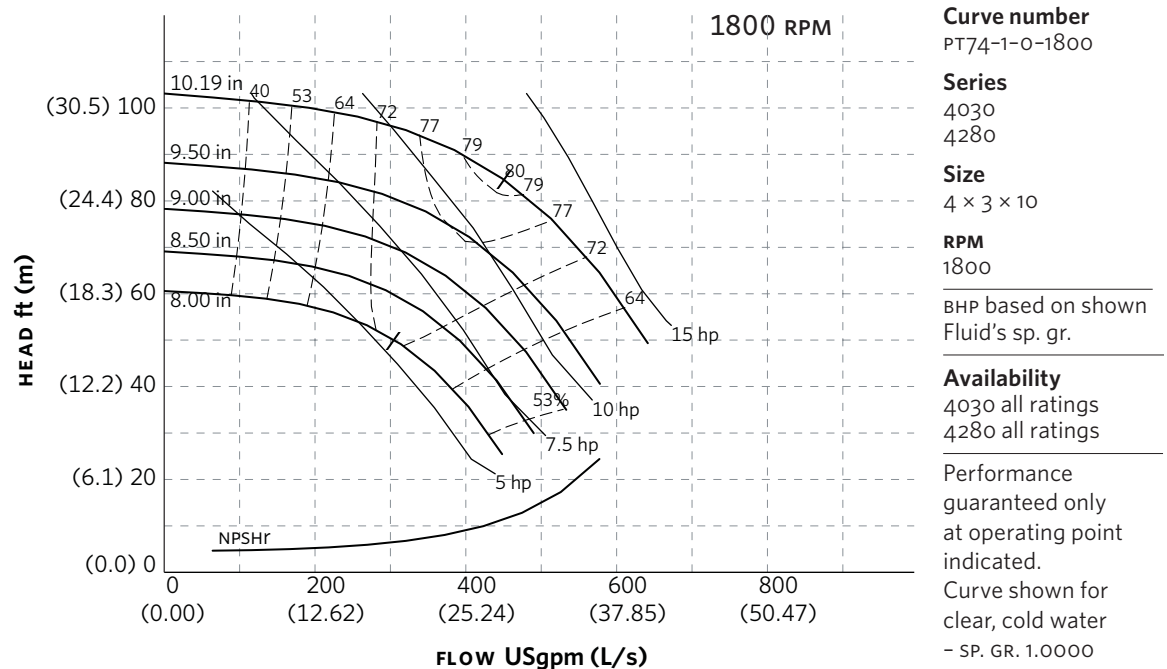
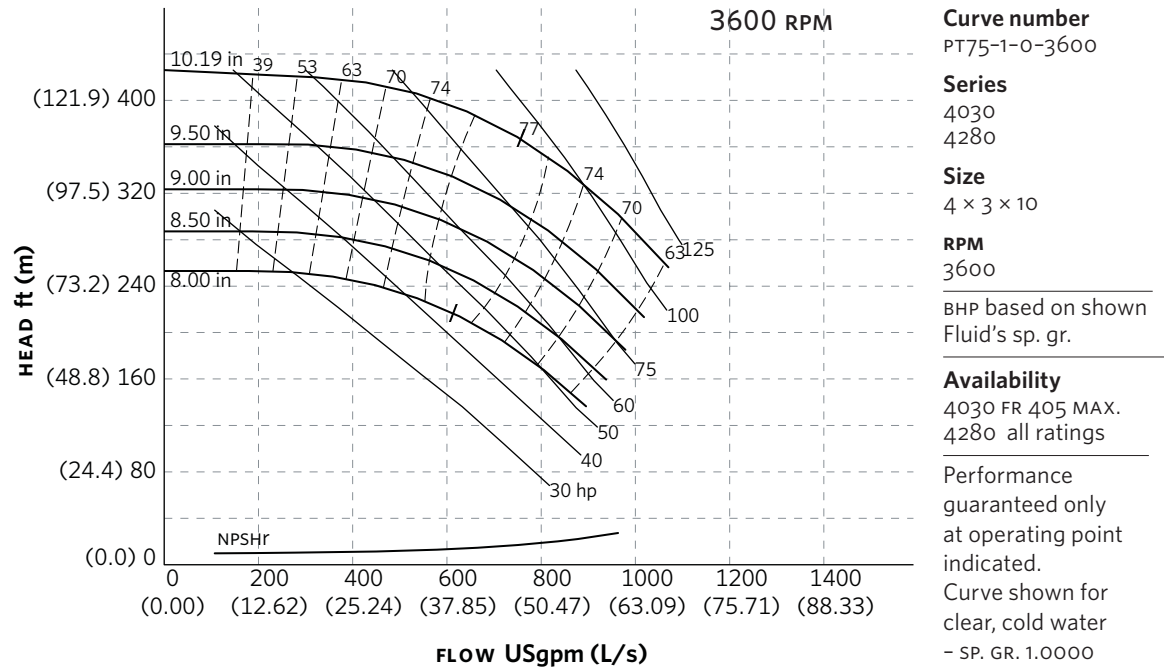
inches (mm)

X	Y
11.00 (279)	4.00 (102)

*Assembly weight combines pump and motor.



SERIES 4280 PERFORMANCE CURVES



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

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