

SERIES 4280 | END SUCTION MOTOR MOUNTED CLOSED-COUPLED | 1.5 × 1 × 6 | SUBMITTAL

File No: 42.54
Date: SEPTEMBER 10 2012
Supersedes: 42.54
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: 1.5" (38mm) Flanged
 Discharge: 1" (25mm) 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

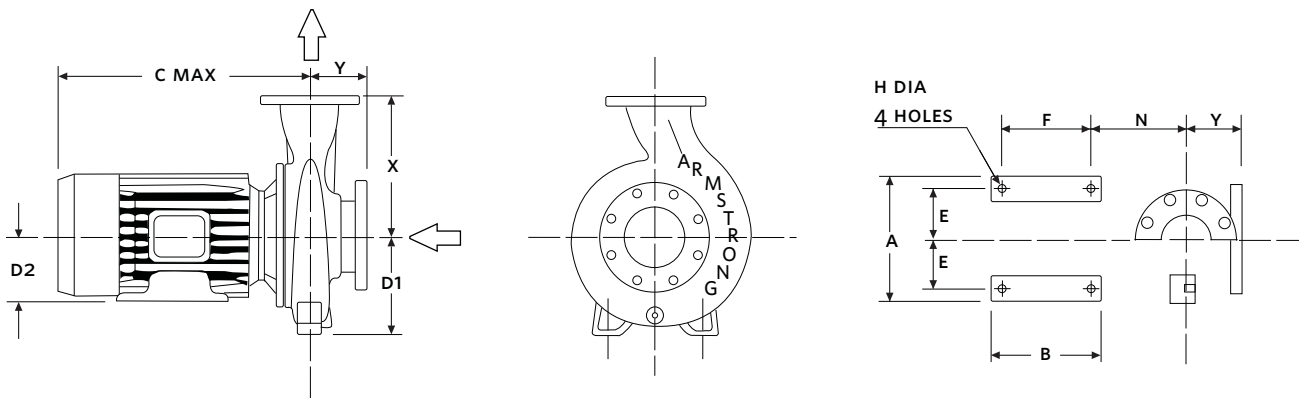
MOTOR FRAME	HP @ RPM (ODP & TEFC)		MAX. DIMENSIONS INCHES (mm)										ASSEMBLY WEIGHT*	
	3600	1800	A	B	C MAX		D1	D2	E	F	H	N	lbs (kgs)	
					ODP	TEFC							ODP	TEFC
143JM	1.5	1	7.00 (178)	6.50 (165)	13.18 (335)	13.18 (335)	5.25 (133)	3.50 (89)	2.75 (70)	4.00 (102)	0.34 (9)	6.12 (155)	74 (33.6)	79 (35.9)
145JM	2 & 3	—	7.00 (178)	6.50 (165)	13.18 (335)	13.18 (335)	5.25 (133)	3.50 (89)	2.75 (70)	4.00 (102)	0.34 (9)	6.12 (155)	84 (38.1)	104 (47.2)
184JM	5 & 7.5	—	7.00 (178)	6.50 (165)	13.18 (335)	13.18 (335)	5.25 (133)	3.50 (89)	2.75 (70)	5.00 (127)	0.41 (10)	6.12 (155)	119 (54.0)	144 (65.4)

PUMP DIMENSIONS

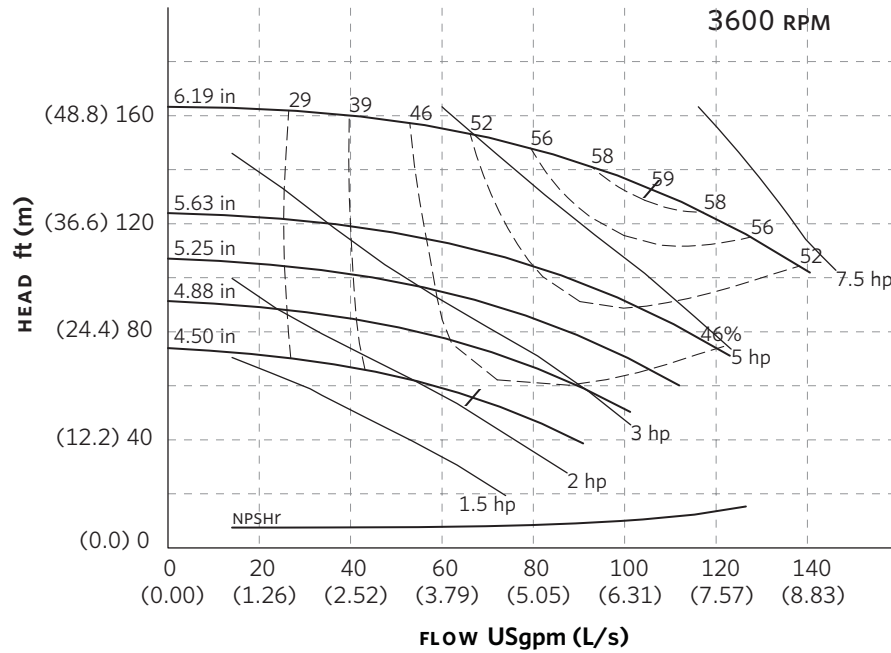
inches (mm)

X	Y
6.50 (165)	4.00 (102)

*Assembly weight combines pump and motor.



SERIES 4280 PERFORMANCE CURVES



Curve number
PT16-2-0-3600

Series
4030
4280

Size
1.5 x 1 x 6

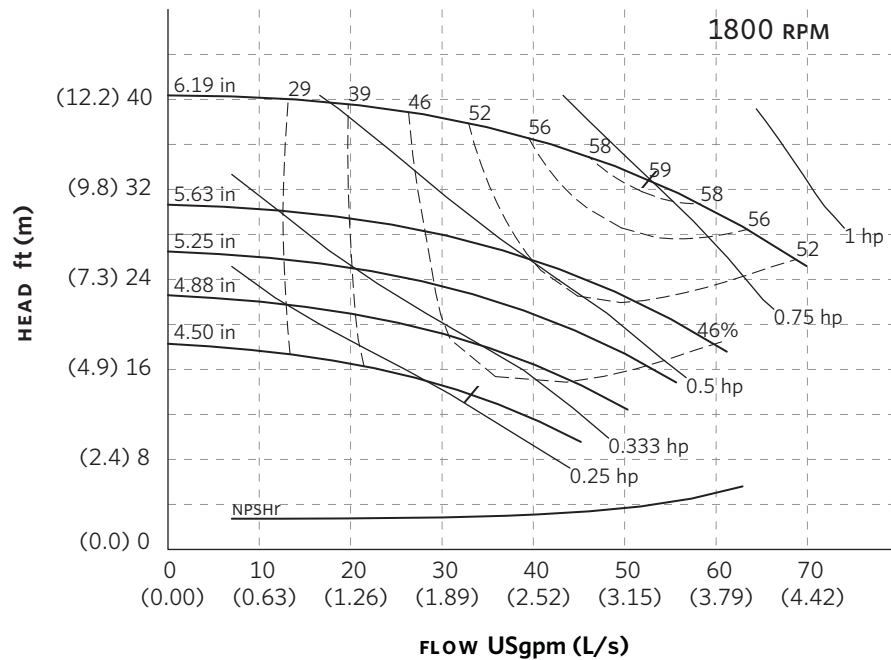
RPM
3600

BHP based on shown
Fluid's sp. gr.

Availability
4030 all ratings
4280 FR 143 MIN.

Performance
guaranteed only
at operating point
indicated.

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



Curve number
PT16-2-0-1800

Series
4030
4280

Size
1.5 x 1 x 6

RPM
1800

BHP based on shown
Fluid's sp. gr.

Availability
4030 FR 56 MIN.
4280 FR 143 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.

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