

Pump Performance Datasheet

Customer :	Quote number :
Customer reference :	Size : 3 x 3 x 6 (B3TPKS) - 3 HP (Self-prime)
Item number : Default	Stages : 1
Service :	Based on curve number : 6079 (3.0 HP)
Quantity : 1	Date last saved : 16 Jan 2019 10:32 AM

Operating Conditions		Liquid	
Flow, rated	: 178.7 USgpm	Liquid type	: --Water
Differential head / pressure, rated (requested)	: 34.64 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 34.64 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.00 psi.a

Performance		Material	
Speed, rated	: 1740 rpm	Material selected	: Not specified
Impeller diameter, rated	: 6.59 in		
Impeller diameter, maximum	: 6.59 in		
Impeller diameter, minimum	: 6.59 in		
Efficiency	: 63.92 %		

		Pressure Data	
NPSH required / margin required	: 10.02 / 0.00 ft	Maximum working pressure	: 19.72 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,630 / 4,126 US Units	Maximum allowable working pressure	: 80.00 psi.g
MCSF	: 79.47 USgpm	Maximum allowable suction pressure	: N/A
Head, maximum, rated diameter	: 45.56 ft	Hydrostatic test pressure	: N/A

		Driver & Power Data (@Max density)	
Head rise to shutoff	: 31.53 %	Driver sizing specification	: Rated power
Flow, best eff. point	: 178.7 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 100.00 %	Service factor	: 1.15 (used)
Diameter ratio (rated / max)	: 100.00 %	Power, hydraulic	: 1.56 hp
Head ratio (rated dia / max dia)	: 100.00 %	Power, rated	: 2.45 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Power, maximum, rated diameter	: 2.75 hp
Selection status	: Acceptable	Minimum recommended motor rating	: 3.00 hp / 2.24 kW (Fixed)

