



Customer :
Reference :

Pump Performance Datasheet

Ebara Quotation System 24.6.5

Item number	: Default	Product Description	: ACDU120/5-3HP
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: CD-C606-9309
Quote number	:	Basic model number	: -
		Date last saved	: 02 Apr 2025 10:57 AM

Operating Conditions		Liquid	
Flow, rated	: 53.00 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 102.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 103.8 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
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a
Performance		Material	
Speed criteria	: Synchronous	Material selected	: Stainless Steel
Speed, rated	: 3450 rpm		
Impeller diameter, rated	: 6.18 in	Pressure Data	
Impeller diameter, maximum	: 6.18 in	Maximum working pressure	: 64.93 psi.g
Impeller diameter, minimum	: 6.18 in	Maximum allowable working pressure	: 125.0 psi.g
Efficiency	: 53.83 %	Maximum allowable suction pressure	: N/A
PEI (CL)	: 0.90	Hydrostatic test pressure	: N/A
NPSH required / margin required	: 12.12 / 0.00 ft	Driver & Power Data (@Max density)	
Ns (imp. eye flow) / Nss (imp. eye flow)	: 740 / 4,052 US Units	Driver sizing specification	: Rated power
MCSF	: 10.00 USgpm	Margin over specification	: 0.00 %
Head, maximum, rated diameter	: 150.0 ft	Service factor	: 1.00
Head rise to shutoff	: 44.47 %	Power, hydraulic	: 1.39 hp
Flow, best eff. point	: 50.99 USgpm	Power, rated	: 2.58 hp
Flow ratio, rated / BEP	: 103.94 %	Power, maximum, rated diameter	: 2.72 hp
Diameter ratio (rated / max)	: 100.00 %	Motor rating	: 3.00 hp / 2.24 kW (Fixed)
Head ratio (rated dia / max dia)	: 100.00 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

