

Pump Performance Datasheet

Project name / location	: Default	Tag Number	: 002
Consulting engineer	:	Service	:
Customer	:	Model	: 40707 LC
Customer ref. / PO	:	Quantity	: 1
Quote number	: 506718	Quoted By (Sales Office)	:
Date last saved	: 07/22/2016 4:43 PM	Quoted By (Sales Engineer)	:

Operating Conditions		Liquid	
Flow, rated	: 975.0 USgpm	Liquid type	: Glycol, Propylene, 35%
Differential head / pressure, rated (requested)	: 150.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 149.8 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
Frequency	: 60 Hz	Fluid density, rated / max	: 1.035 / 1.035 SG
Performance		Viscosity, rated	: 4.87 cP
Speed, rated	: 3550 rpm	Vapor pressure, rated	: 0.39 psi.a
Impeller diameter, rated	: 6.82 in	Material	
Impeller diameter, maximum	: 7.10 in	Material selected	: Cast iron
Impeller diameter, minimum	: 5.50 in	Pressure Data	
Efficiency	: 84.02 %	Maximum working pressure	: 81.95 psi.g
NPSH required / margin required	: 31.11 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 2,535 / 8,647 US Units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 332.8 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 183.0 ft	Driver & Power Data	
Head rise to shutoff	: 16.92 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 1,013.6 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 96.19 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 96.06 %	Power, hydraulic	: 38.20 hp
Head ratio (rated dia / max dia)	: 85.67 %	Rated power (based on duty point)	: 45.46 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 49.26 hp
Selection status	: Acceptable	Nameplate motor rating	: 50.00 hp / 37.29 kW

