

## Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	40707 LC
Tag Number : 001	Stages :	1
Service :	Based on curve number :	RC1959-SS Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	09/19/2023 4:00 PM

Operating Conditions		Liquid	
Flow, rated	: 543.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 41.39 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 41.39 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

Performance		Material	
Speed, rated	: 1775 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 7.10 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 5.50 in		

Performance		Pressure Data	
Efficiency	: 84.57 %	Maximum working pressure	: 21.55 psi.g
NPSH required / margin required	: 5.80 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 49 / 214 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 172.5 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 49.80 ft		
Head rise to shutoff	: 17.58 %		

Performance		Driver & Power Data (@Max density)	
Flow, best eff. point	: 543.0 USgpm	Motor sizing specification	: Max power (non-overloading)
Flow ratio, rated / BEP	: 100.00 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 100.00 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 100.00 %	Power, hydraulic	: 5.67 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Rated power (based on duty point)	: 6.71 hp
Selection status	: Acceptable	Max power (non-overloading)	: 7.24 hp
		Nameplate motor rating	: 7.50 hp / 5.59 kW

Energy Indexes	
PEI (CL)	: 0.95
ER (CL)	: 5

