

Pump Performance Datasheet

Customer :	Quote number : 792628
Customer reference :	Size : LES 080-160
Item number : Default	Stages : 1
Service :	Based on curve number : LES 100-80-160-2-50 Rev 01/06-22
Quantity : 1	Date last saved : 29 Sep 2023 1:25 PM

Operating Conditions		Liquid	
Flow, rated	: 108.0 m3/h	Liquid type	: Water
Differential head / pressure, rated (requested)	: 19.00 m	Additional liquid description	:
Differential head / pressure, rated (actual)	: 19.51 m	Solids diameter, max	: 0.0 mm
Suction pressure, rated / max	: 0.00 / 0.00 bar.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 20.00 deg C
Site Supply Frequency	: 50 Hz	Fluid density, rated / max	: 0.999 / 0.999 kg/dm3
Performance		Material	
Speed criteria	: Synchronous	Material selected	: Standard
Speed, rated	: 2900 rpm	Pressure Data	
Impeller diameter, rated	: 150 mm	Maximum working pressure	: 2.49 bar.g
Impeller diameter, maximum	: 174 mm	Maximum allowable working pressure	: 16.00 bar.g
Impeller diameter, minimum	: 142 mm	Maximum allowable suction pressure	: 2.50 bar.g
Efficiency	: 69.83 %	Hydrostatic test pressure	: 24.00 bar.g
NPSH required / margin required	: 5.72 / 0.00 m	Driver & Power Data (@Max density)	
nq (imp. eye flow) / S (imp. eye flow)	: 39 / 143 Metric units	Driver sizing specification	: Rated power
MCSF	: -	Margin over specification	: 0.00 %
Head, maximum, rated diameter	: 25.47 m	Service factor	: 1.00 (used)
Head rise to shutoff	: 33.92 %	Power, hydraulic	: 5.58 kW
Flow, best eff. point	: 91.83 m3/h	Power, rated	: 7.99 kW
Flow ratio, rated / BEP	: 117.61 %	Power, maximum, rated diameter	: 8.76 kW
Diameter ratio (rated / max)	: 86.21 %	Minimum recommended motor rating	: 9.32 kW / 12.50 hp
Head ratio (rated dia / max dia)	: 54.87 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Performance based on test acceptance - ISO 9906:2012 3B. Performances are subject to periodic changes due to continuous improvements.

