

Pump Performance Datasheet

Customer :	Quote number :	792628	
Customer reference :	Size :	LES 080-200	
Item number : Default	Stages :	1	
Service :	Based on curve number :	LES 100-80-200-2-50 Rev 02/01-23	
Quantity : 1	Date last saved :	29 Sep 2023 1:19 PM	
Operating Conditions		Liquid	
Flow, rated :	180.0 m3/h	Liquid type :	Water
Differential head / pressure, rated (requested) :	39.50 m	Additional liquid description :	
Differential head / pressure, rated (actual) :	39.77 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 :	191 mm	Maximum working pressure :	4.42 bar.g
Impeller diameter, maximum :	214 mm	Maximum allowable working pressure :	16.00 bar.g
Impeller diameter, minimum :	166 mm	Maximum allowable suction pressure :	2.50 bar.g
Efficiency :	74.08 %	Hydrostatic test pressure :	24.00 bar.g
NPSH required / margin required :	6.75 / 0.00 m	Driver & Power Data (@Max density)	
nq (imp. eye flow) / S (imp. eye flow) :	34 / 155 Metric units	Driver sizing specification :	Rated power
MCSF :	-	Margin over specification :	0.00 %
Head, maximum, rated diameter :	45.14 m	Service factor :	1.00 (used)
Head rise to shutoff :	14.27 %	Power, hydraulic :	19.34 kW
Flow, best eff. point :	170.7 m3/h	Power, rated :	26.11 kW
Flow ratio, rated / BEP :	105.43 %	Power, maximum, rated diameter :	31.60 kW
Diameter ratio (rated / max) :	89.25 %	Minimum recommended motor rating :	29.83 kW / 40.00 hp
Head ratio (rated dia / max dia) :	74.25 %		
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.

