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 1:20 PM

Operating Conditions

Flow, rated	: 180.0 m3/h
Differential head / pressure, rated (requested)	: 30.00 m
Differential head / pressure, rated (actual)	: 30.14 m
Suction pressure, rated / max	: 0.00 / 0.00 bar.g
NPSH available, rated	: Ample
Site Supply Frequency	: 50 Hz

Performance

Speed criteria	: Synchronous
Speed, rated	: 2900 rpm
Impeller diameter, rated	: 173 mm
Impeller diameter, maximum	: 214 mm
Impeller diameter, minimum	: 166 mm
Efficiency	: 71.86 %
NPSH required / margin required	: 6.97 / 0.00 m
nq (imp. eye flow) / S (imp. eye flow)	: 34 / 155 Metric units
MCSF	: -
Head, maximum, rated diameter	: 37.08 m
Head rise to shutoff	: 22.92 %
Flow, best eff. point	: 156.1 m3/h
Flow ratio, rated / BEP	: 115.28 %
Diameter ratio (rated / max)	: 80.84 %
Head ratio (rated dia / max dia)	: 56.66 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.0 mm
Solids concentration, by volume	: 0.00 %
Temperature, max	: 20.00 deg C
Fluid density, rated / max	: 0.999 / 0.999 kg/dm3
Viscosity, rated	: 1.00 cSt
Vapor pressure, rated	: 0.00 bar.a

Material

Material selected	: Standard

Pressure Data

Maximum working pressure	: 3.63 bar.g
Maximum allowable working pressure	: 16.00 bar.g
Maximum allowable suction pressure	: 2.50 bar.g
Hydrostatic test pressure	: 24.00 bar.g

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00 (used)
Power, hydraulic	: 14.76 kW
Power, rated	: 20.54 kW
Power, maximum, rated diameter	: 23.97 kW
Minimum recommended motor rating	: 22.37 kW / 30.00 hp

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