

# Pump Performance Datasheet

Customer	:	Quote Number / ID	:
Customer ref. / PO	:	Model	: 1220-A/B KP
Tag Number	: Default	Stages	: 1
Service	:	Based on curve number	: RC10258-SS Rev 0
Quantity	: 1	Date last saved	: April 14, 2018 8:37 AM

Operating Conditions		Liquid	
Flow, rated	: 0.40 m3/s	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 23.04 m	Additional liquid description	:
Differential head / pressure, rated (actual)	: 23.03 m	Solids diameter, max	: 0.00 mm
Suction pressure, rated / max	: 1.93 / 1.93 bar.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: 30.05 m	Temperature, max	: 20.00 deg C
Frequency	: 60 Hz	Fluid density, rated / max	: 0.998 / 0.998 kg/dm3
Performance		Viscosity, rated	: 1.00 cSt
Speed, rated	: 893 rpm	Vapor pressure, rated	: 0.02 bar.a
Impeller diameter, rated	: 472 mm	Material	
Impeller diameter, maximum	: 508 mm	Material selected	: Cast Iron
Impeller diameter, minimum	: 381 mm	Pressure Data	
Efficiency	: 91.53 %	Maximum working pressure	: 4.81 bar.g
NPSH required / margin required	: 4.84 / 0.00 m	Maximum allowable working pressure	: 10.00 bar.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,653 / 6,376 US Units	Maximum allowable suction pressure	: 11.45 bar.g
MCSF	: 0.17 m3/s	Hydrostatic test pressure	: 14.96 bar.g
Head, maximum, rated diameter	: 29.48 m	Driver & Power Data (@Max density)	
Head rise to shutoff	: 26.55 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 0.39 m3/s	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 102.37 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 92.95 %	Power, hydraulic	: 90.18 kW
Head ratio (rated dia / max dia)	: 80.47 %	Rated power (based on duty point)	: 98.52 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 105 kW
Selection status	: Acceptable	Nameplate motor rating	: 112 kW / 150 hp

