ARMSTRONG

Submittal

Ref. #: SQJMA001006_1

long-coupled horizontal base-mounted end suction pump

Model: Series 4030 - 100-330 - 4p - 15 kW - (Factory Choice Motor)

Project name:	**Representative:**
Location:	**Phone number:**
Date submitted:	**e-mail:**
Engineer:	**Submitted by:**

Application design data

Tag number:	CDWP	Configuration:	Single
Service:		Suction pressure:	0 ft
Equipment Location:		Fluid:	Non-Potable Fluid - Water
Qty:	1	Operating temperature:	60 °F
Total system flow:	347 USgpm	Duty flow per pump:	347 USgpm
System head:	98.4 ft	Viscosity:	31 SSU
Total dissolved solids:	0 ppm	Specific gravity:	1.0000
NPSHR:	2.32 ft	Absorbed Power/BHP:	9.55 kW
%Mtr Safety*:	55.29%	Efficiency at Design:	67.33 %
Outlet velocity:	8.75 ft/s	Impeller diameter:	305 mm
PEIcl:	Not applicable	ERcl:	Not applicable
Standby qty:	0	Pump/motor run qty:	1
Load Profile Location:	NA	Building Type:	NA
Climate Zone Type:	NA	Time Period:	8760 (1 Year)

*Motor safety factor above duty point.

Materials of construction

Construction:	Bronze Fitted	Impeller:	Bronze
Rating:	PN-16	Pump shaft:	Carbon Steel
Connections:	Inlet: 150 mm, Outlet: 100 mm	Shaft sleeve:ea	304 SS
Casing (volute):	Cast Iron	Flexible coupling:	Duraflex coupling
Bearings:	Anti-Friction Grease Lubricated	Casing gasket:	Confined Non-Asbestos Fiber
Drip pan:	No		

Mechanical seal data

Seal type:	Inside Single Spring	Rotating face:	Resin Bonded Carbon
Manufacturer code:	C-ssc L EPSS 2A	Stationary seat:	Sintered Silicon Carbide
Springs:	Stainless Steel	Secondary seal:	EPDM
Rotating hardware:	Stainless Steel	Maximum total dissolved solids (TDS)*:	2000 PPM

*Note: Please ensure proper seal is selected by inputting Total Dissolved Solids (TDS) in PPM in ADEPT if water quality is poor at site. Also select Flush Line Filter or Cyclone Separator if there are other contaminants in the fluid.

Electrical data

Supplier:	Factory Choice	Insulation class:	Class F Insulation
Frame size:	160L	Motor type:	Inverter Duty
Speed:	1463 rpm	Size:	15 kW
Enclosure:	TEFC	Efficiency:	IE3
Power supply:	415/3/50		