

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible, IP 68
Maximum submergence	65 feet (20m)
Insulation Class	Class F, rated at 155° C
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	130° C ± 5° C
Service Factor	1.15
Max. Liquid Temperature	104°F (40°C)
Voltage Tolerance	± 10% from nominal
MSHA Approval	18-A060004-07-JA050006-0 (SX6000)



MOTOR DATA, 60Hz

Model	Phase	Output Power BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (rpm)
SX6000	3	60	460	77	462	M	0.85	0.89	2/3450
			575	62	372	G	0.85	0.89	2/3450

MATERIALS OF CONSTRUCTION

Material	Standard	High chrome
Upper Motor Lid	356-T6 Aluminum	356-T6 Aluminum
Motor Housing	356-T6 Aluminum	356-T6 Aluminum
Lower Seal Housing	AISI 304 Stainless Steel	ASTM A532 Class III Type Chromium
Volute	356-T6 Aluminum - Rubber Lined	356-T6 Aluminum - Rubber Lined
Wear Plate	356-T6 Aluminum - Rubber Lined	356-T6 Aluminum - Polyurethane Lined
External Hardware	AISI 304 Stainless Steel	AISI 304 Stainless Steel
O-Rings	NBR	NBR
Motor Shaft	AISI 416 Stainless Steel	AISI 416 Stainless Steel
Upper Bearing	Deep groove ball bearing, double sealed	Deep groove ball bearing, double sealed
Lower Bearing(s)	Two heavy duty angular contact ball bearings	Two heavy duty angular contact ball bearings
Upper Shaft Seal	Carbon/Ceramic	Carbon/Ceramic
Lower Shaft Seal	SiC/SiC	SiC/SiC
Impeller HH	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium
Impeller MR	17-4 PH	ASTM A532 Class III Type Chromium

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	1140 lbs (517kg)
Discharge size, HH	6 inch NPT male vertical (8", 10" optional)
Discharge size, MR	8 inch NPT male vertical (6", 10" optional)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
SX6000	3Ø-460V	2/3, 4/3, G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	2/3, 4/3, G-GC	Per MSHA Approval	CPE, Heavy Duty

* Cable size and length per MSHA approval.



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External Hardware	AISI 304 Stainless Steel	AISI 304 Stainless Steel
O-Rings	NBR	NBR
Motor Shaft	AISI 416 Stainless Steel	AISI 416 Stainless Steel
Upper Bearing	Deep groove ball bearing, double sealed	Deep groove ball bearing, double sealed
Lower Bearing(s)	Two heavy duty angular contact ball bearings	Two heavy duty angular contact ball bearings
Upper Shaft Seal	Carbon/Ceramic	Carbon/Ceramic
Lower Shaft Seal	SiC/SiC	SiC/SiC
Impeller	17-4PH Stainless Steel	ASTM A532 Class III Type Chromium

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	1200 lbs (545 kg)
Discharge size	8 inch NPT male vertical (6", 10" optional)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
SX6000	3Ø-460V	2/3, 4/3, G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	2/3, 4/3, G-GC	Per MSHA Approval	CPE, Heavy Duty

* Cable size and length per MSHA approval.

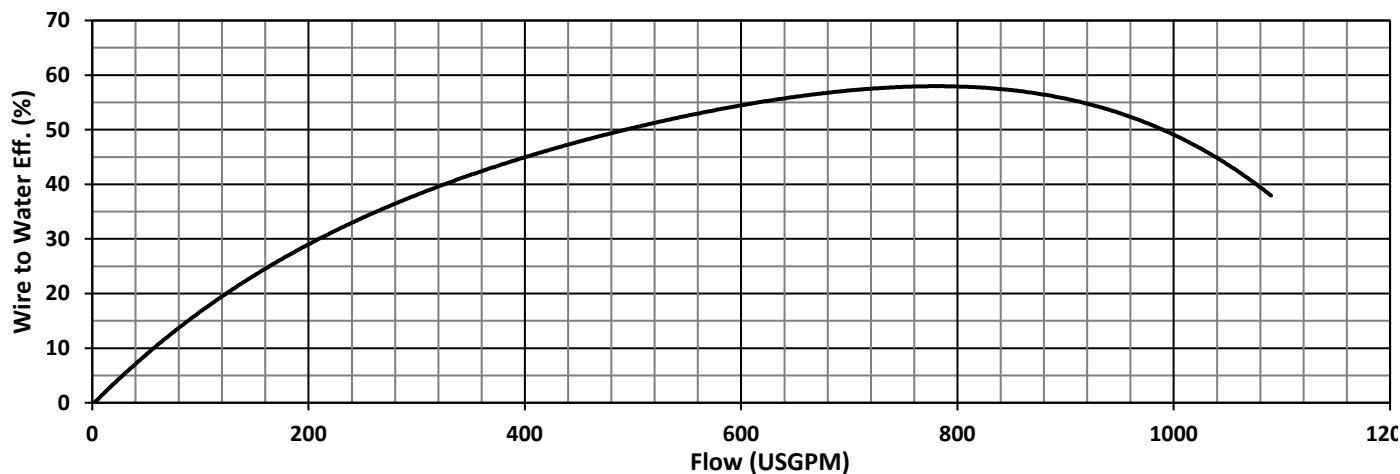
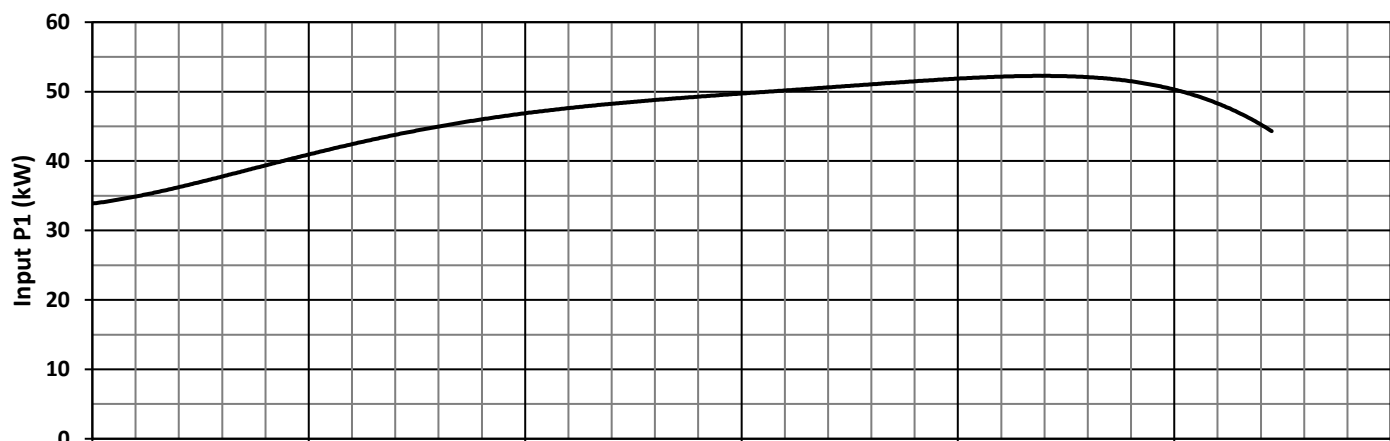
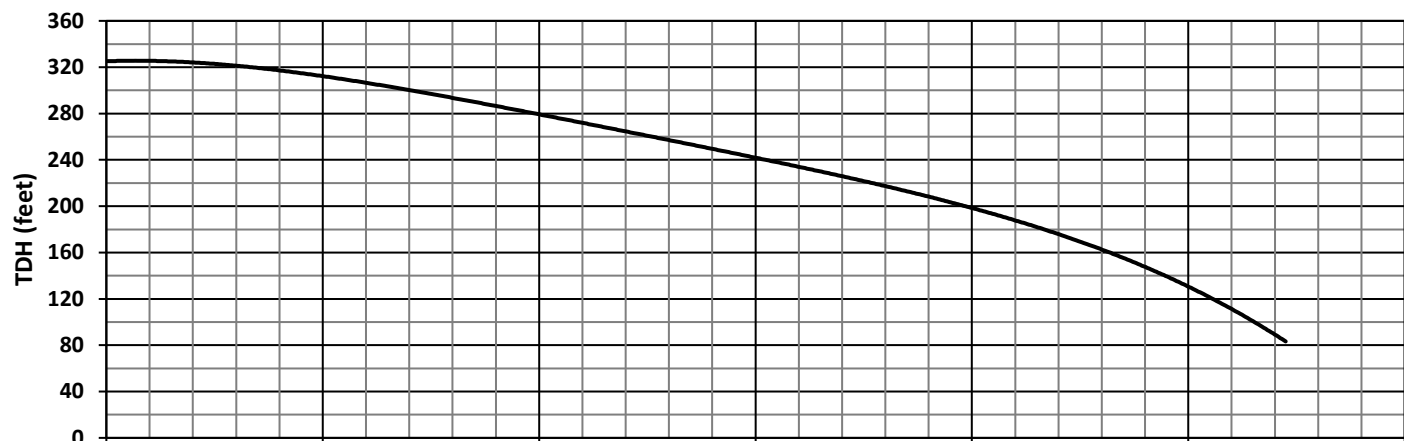




PERFORMANCE CURVE

Mine Dewatering Pumps S6000 HH

Dwg: DS-A16-045 Rev: 3 Date: 11/7/2016



Pump Performance Test - US Units

Test Standard : HI 11.6 Gr 3B
Tested with water at 20°C
Frequency 60 Hz
Pump Speed 3450 RPM
Impeller Ø239mm

Specifications subject to change without notice



PERFORMANCE CURVE

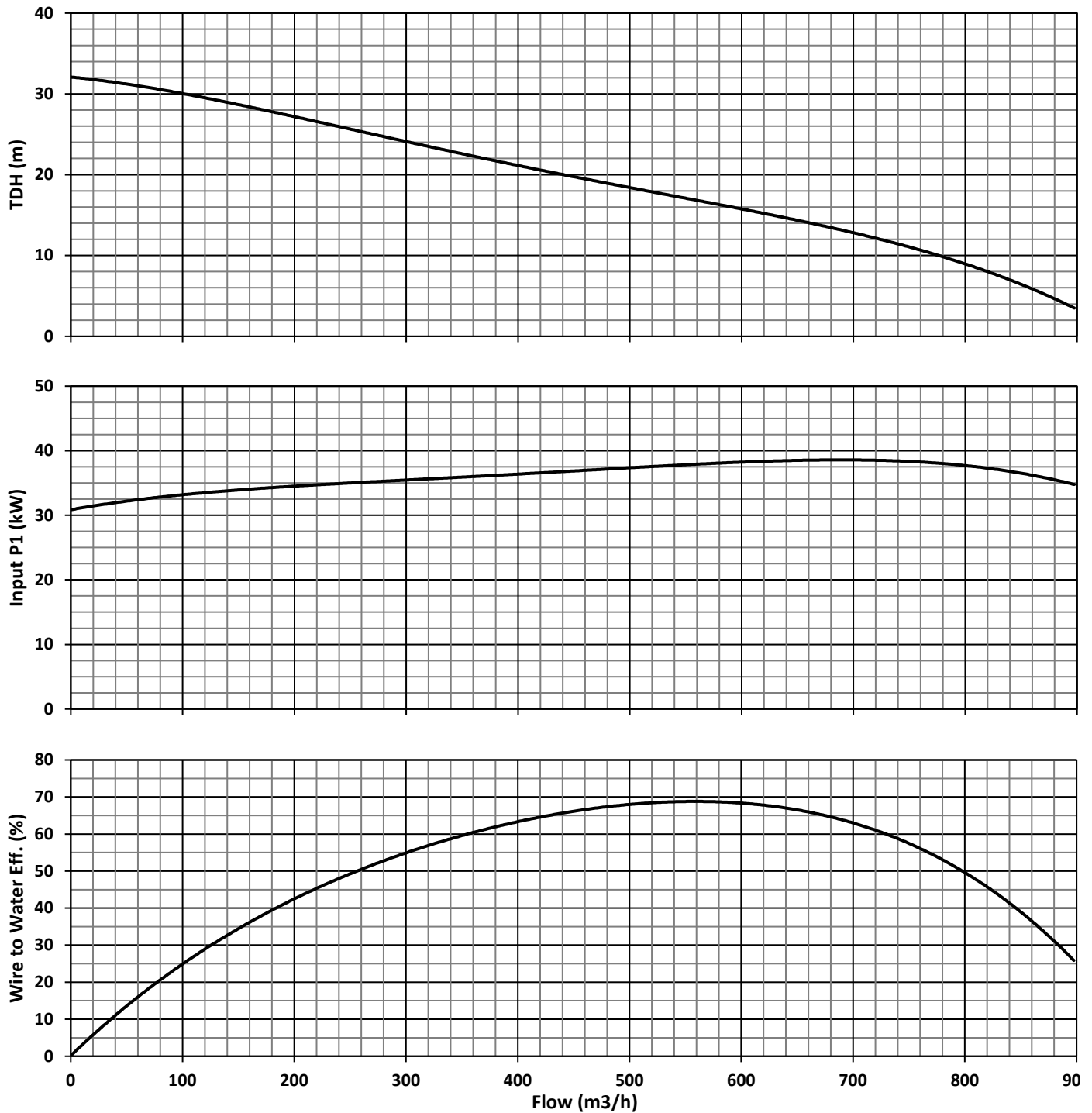
Mine Dewatering Pumps SX6000 HV

Dwg: DS-A16-043

Rev:

Date:

10/26/2017



Pump Performance Test - Metric Units

Test Standard : HI 11.6 Gr 3B
Tested with water at 20°C
Frequency 60 Hz
Pump Speed 1750 RPM
Impeller Ø264mm

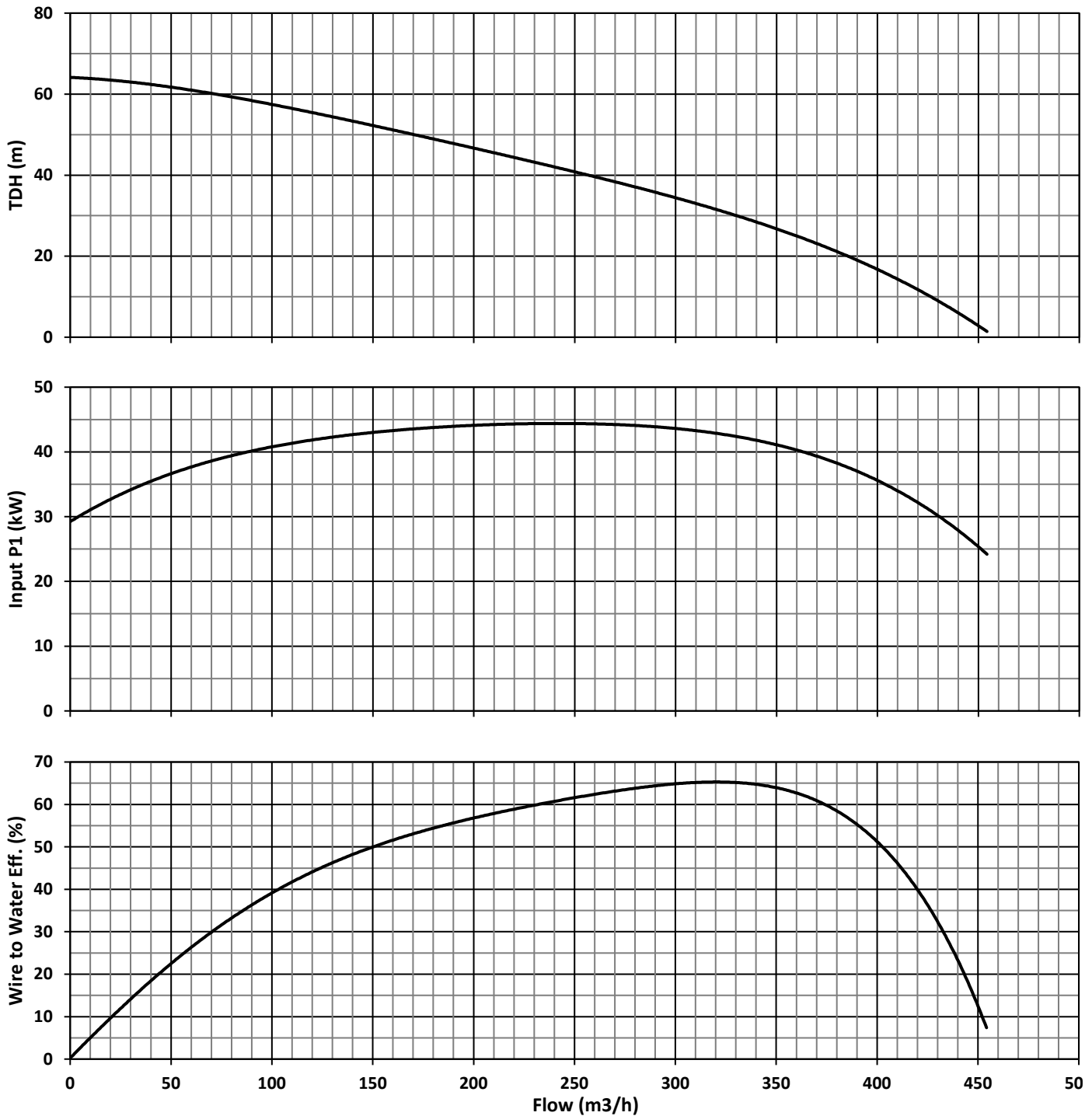
Specifications subject to change without notice



PERFORMANCE CURVE

Mine Dewatering Pumps SX6000 MR

Dwg: DS-A16-046 Rev: Date: 11/7/2016



Pump Performance Test - Metric Units

Test Standard : HI 11.6 Gr 3B
Tested with water at 20°C
Frequency 60 Hz
Pump Speed 3450 RPM
Impeller Ø198mm

Specifications subject to change without notice