

## 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	2G-2796A (460Volt), 2G-2796A-1(575 Volt)



## 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)
SX1000	3	10	460	17.5	88	H	0.88	0.85	2/3450
			575	14	71	H	0.88	0.85	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
Strainer	AISI 304 Stainless Steel	AISI 304 Stainless Steel
Volute	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	Double row angular contact ball bearing, double sealed	Double row angular contact ball bearing, double sealed
Shaft Seal	SiC/SiC	SiC/SiC
Impeller	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium

## DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	124 lbs (56kg)
Discharge size, HH	3 inch NPT male vertical
Discharge size, HV	4 inch NPT male vertical
Strainer Opening	8mmx24.5mm

## CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
SX1000	3Ø-460V	Drill Cord SOOW 12/5, 10/5, 8/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	Drill Cord SOOW 12/5, 10/5, 8/3 G-GC	Per MSHA Approval	CPE, Heavy Duty

\* Cable size and length per MSHA approval.

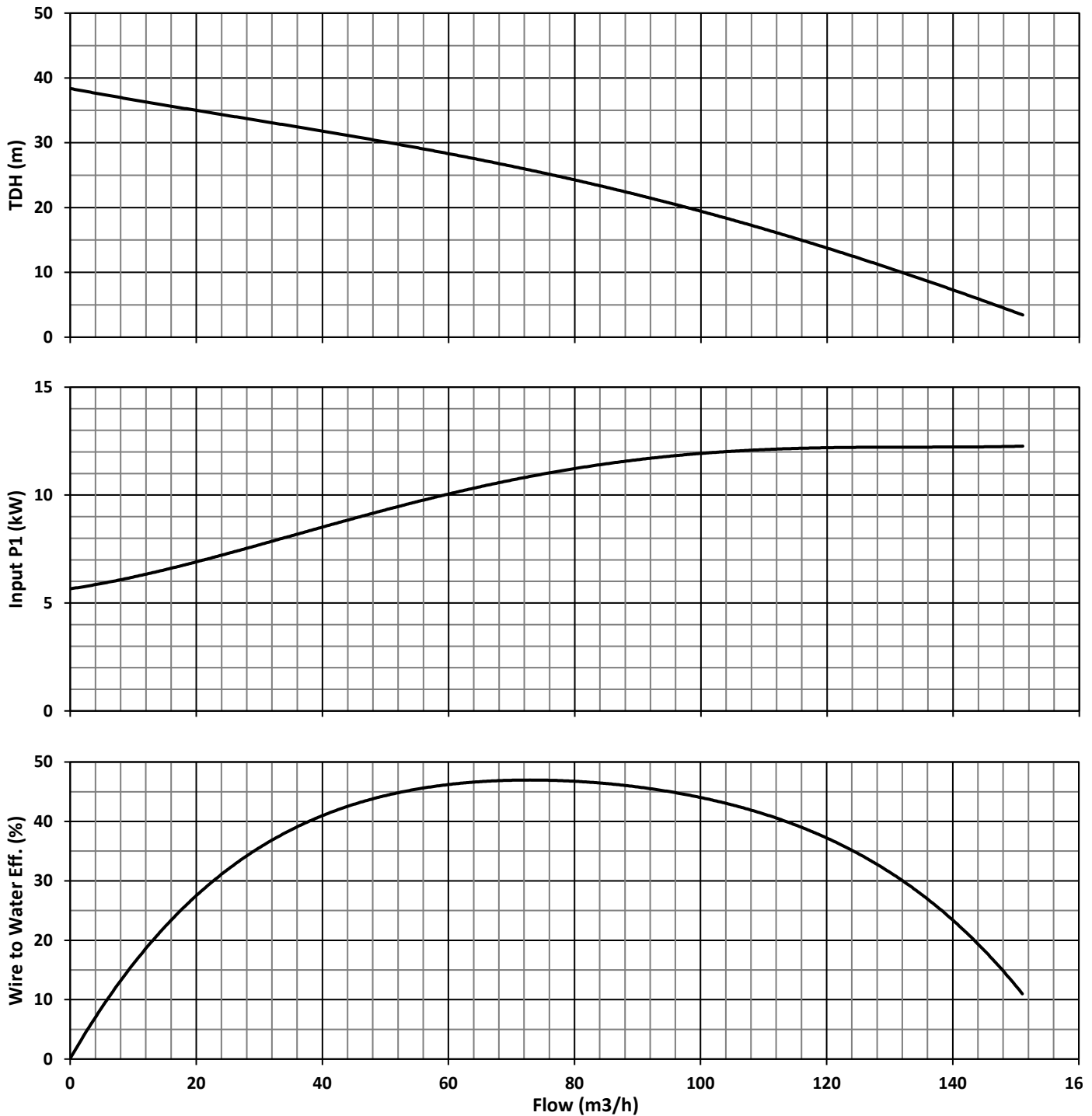




# PERFORMANCE CURVE

# Mine Dewatering Pumps SX1000 HV

Dwg: DS-A18-019 Rev: 3 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 Ø160mm

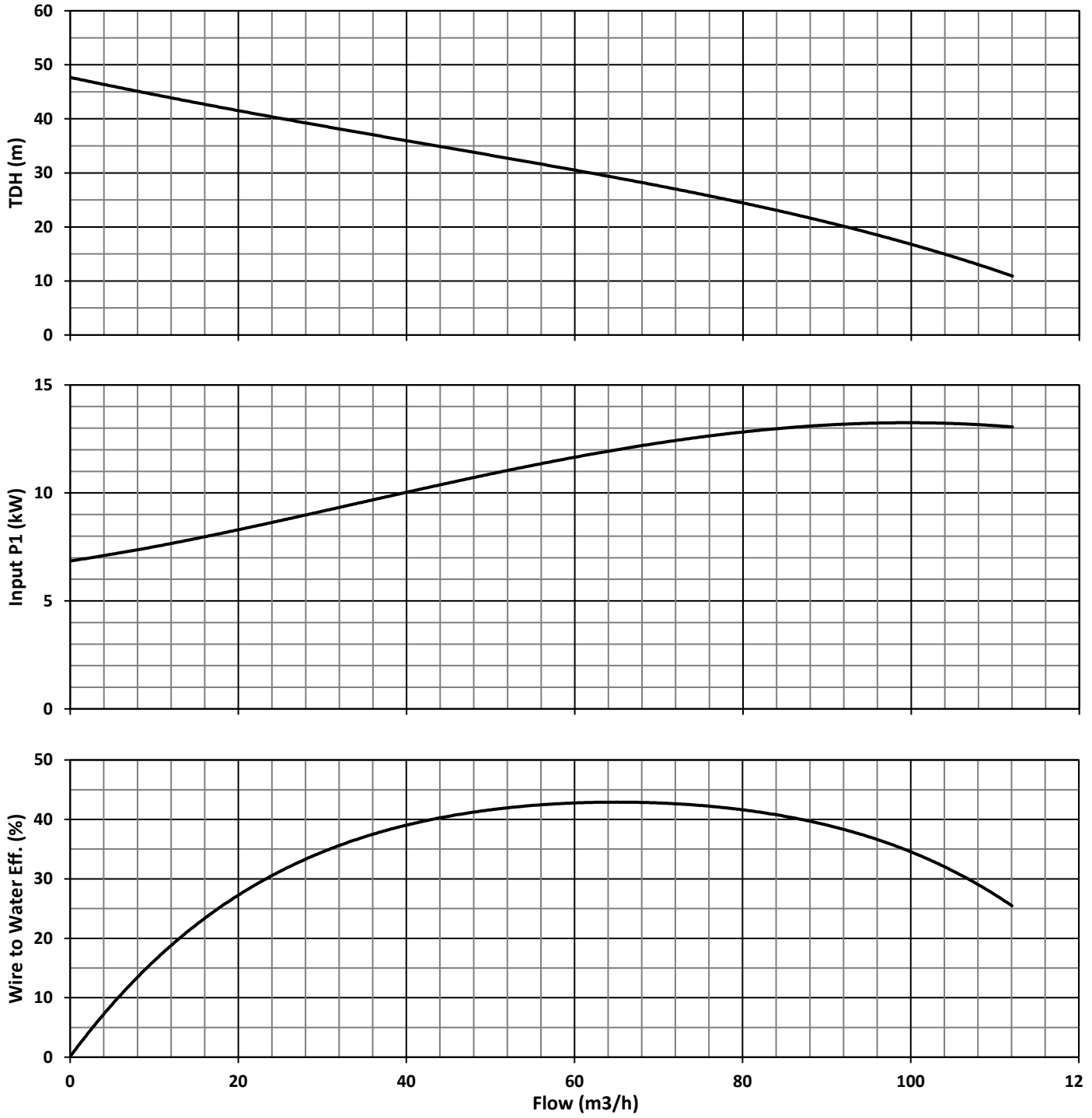
Specifications subject to change without notice



# PERFORMANCE CURVE

# Mine Dewatering Pumps SX1000 HH

Dwg: DS-A16-022 Rev: 3 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 Ø175mm

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