



# TECHNICAL DATA

# Mine Dewatering Pumps SX6000 HH&MR

STANCOR

Dwg: DS-A16-060 Rev: 3 Date: 11/16

## 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

|                   |                                              |
|-------------------|----------------------------------------------|
| Upper Motor Lid   | 356-T6 Aluminum                              |
| Motor Housing     | 356-T6 Aluminum                              |
| Oil Chamber       | AISI 304 Stainless Steel                     |
| Volute            | 356-T6 Aluminum - Rubber Lined               |
| Wear Plate        | 356-T6 Aluminum - Rubber Lined               |
| External Hardware | AISI 304 Stainless Steel                     |
| O-Rings           | NBR                                          |
| Motor Shaft       | AISI 416 Stainless Steel                     |
| Upper Bearing     | Deep groove ball bearing, double sealed      |
| Lower Bearing(s)  | Two heavy duty angular contact ball bearings |
| Upper Shaft Seal  | Carbon/Ceramic                               |
| Lower Shaft Seal  | SiC/SiC                                      |
| Impeller HH       | AISI 316 Stainless Steel                     |
| Impeller MR       | 17-4 PH                                      |

## 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.



Specifications subject to change without notice