

## MODEL: S4MV(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

|                                   |  |             |              |              |
|-----------------------------------|--|-------------|--------------|--------------|
| R.P.M.                            | 1750   |             |              |              |
| MOTOR TYPE                        | ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE   |             |              |              |
| MOTOR DESIGN NEMA TYPE            | A or B (3ø) EXCEEDS L (1ø)   |             |              |              |
| GENERAL INSULATION CLASS          | H  |             |              |              |
| STATOR WINDING CLASS              | H  |             |              |              |
| MAXIMUM STATOR TEMPERATURE RATING | 356°F (180°)   |             |              |              |
| MOTOR PROTECTION                  | BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 82°C DIFFERENTIAL, ONE IN SINGLE PHASE, THREE IN THREE PHASE |             |              |              |
| ELECTRICAL RATINGS                | HEAT SENSOR  | 24VDC 5AMPS | 115VAC 5AMPS | 230VAC 5AMPS |
|                                   | SEAL FAIL  | 300VAC 5mA  |              |              |
| VOLTAGE TOLERANCE                 | ±10%   |             |              |              |

| HP  | VOLTAGE | PHASE | NEC CODE | SF  | FULL LOAD AMPS | SF AMPS | LOAD. RTR. AMPS | RUN KW | START KVA | RUN KVA | NEMA REQ. PREMIUM EFFICIENCY @ FL | MTR. EFF. 100% FL | MTR. EFF. 75% FL | MTR. EFF. 50% FL | MTR. EFF. @ SF | PWR. FACT. @ SF | PWR. FACT. 100% FL | PWR. FACT. 75% FL | PWR. FACT. 50% FL |
|-----|---------|-------|----------|-----|----------------|---------|-----------------|--------|-----------|---------|-----------------------------------|-------------------|------------------|------------------|----------------|-----------------|--------------------|-------------------|-------------------|
| 5   | 230     | 3     | K        | 1.3 | 22             | 27      | 263             | 4.8    | 60.5      | 5.1     | NR                                | *87.9             | *85.4            | *79.8            | *88            | 0.955           | 0.94               | 0.92              | 0.87              |
|     | 208     |       |          |     | 17.7           | 19.9    | 175             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 460     |       |          |     | 8              | 9       | 79              |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 575     |       |          |     | 6.4            | 7.2     | 65              |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
| 7.5 | 230     | 3     | K        | 1.3 | 35             | 43      | 263             | 7.7    | 60.5      | 8.1     | NR                                | *88.4             | *87.9            | *73.6            | *79            | 0.98            | 0.96               | 0.95              | 0.92              |
|     | 208     |       |          |     | 24.3           | 28.8    | 175             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 460     |       |          |     | 11             | 13      | 79              |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 575     |       |          |     | 8.8            | 10.4    | 65              |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
| 10  | 230     | 3     | K        | 1.3 | 33.9           | 39.9    | 353             | 8.4    | 127.3     | 11.1    | 91.7                              | *91.7             | *91.7            | *90              | *91.2          | 0.87            | 0.8                | 0.78              | 0.7               |
|     | 208     |       |          |     | 29.4           | 34.7    | 320             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 460     |       |          |     | 14.7           | 17.3    | 160             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 575     |       |          |     | 11.8           | 13.9    | 120             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
| 15  | 230     | 3     | K        | 1.3 | 46.4           | 55.3    | 353             | 13.9   | 127.3     | 16.7    | 92.4                              | *92.4             | *92.4            | *92.3            | *91.5          | 0.86            | 0.833              | 0.784             | 0.677             |
|     | 208     |       |          |     | 42             | 50      | 320             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 460     |       |          |     | 21             | 25      | 160             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |
|     | 575     |       |          |     | 16.8           | 20      | 120             |        |           |         |                                   |                   |                  |                  |                |                 |                    |                   |                   |

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses