

## SW SERIES - OVERVIEW

The Benschaw SW Series NEMA 4X Washdown Drives are heavy duty rated for applications from 0.5-30HP. Designed for high pressure washdown, all SW Series drives feature a rugged UL Type 4X (IP66) indoor rated polycarbonate enclosure that exceeds NEMA 1, 12, 4 and 4X standards. A convenient built-in power disconnect switch, 4 digit- 7 segment display and an optional remote LCD Display/Keypad with a Quick Start menu, make it easy to program and control. And, standard software gives you the flexibility of programming the drive for V/Hz, Sensorless Vector or Slip Compensation operation...whatever your application requires. An on-board RJ45 Port (Modbus-RTU) and built in EMC filter (480V models) are included in this unique, compact AC drive. The SW Series is the ideal product for either stand-alone or side-by-side installation in the harshest of environments and washdown installations.



### STANDARD FEATURES - HARDWARE

- Heavy Duty rated
  - 240V 0.5 HP ~ 20 HP
  - 480V 0.5 HP ~ 30 HP
- Power Disconnect Switch - Built-in
- Display - 4 digit, 7 segment with 4 LED Indicators
- Washdown rated - UL Type 4X (IP66), Indoor only
- EMC Filter (480V only)
- Internal Brake IGBT
- Single Phase Input (derating required)
- RJ45 Port (Modbus - RTU or Remote LCD)

### STANDARD FEATURES - SOFTWARE

- Modbus - RTU (via RJ45 or I/O Terminals)
- Control - V/Hz., Sensorless Vector (SVC), Slip Compensation
- Auto Tuning
- SVC (Induction and Permanent Magnet Motors)
- Torque Limits
- PID Control
- Safe Torque Off (STO)
- Fire Mode Input
- Regen Avoidance
- Kinetic Energy Buffering (KEB), RideThrough

## SW SERIES - PRICING

| Model Number      | kW Rating | Heavy Duty<br>150% OL / 1min. |      | Dimensions (inches) |       |      | Degree of Protection* | Weight (lbs) | List Price |
|-------------------|-----------|-------------------------------|------|---------------------|-------|------|-----------------------|--------------|------------|
|                   |           | HP                            | Amps | H                   | W     | D    |                       |              |            |
| VFD-RSI-0F5-SW-24 | 0.4       | 0.5                           | 2.5  | 10.1                | 7.09  | 6.85 | UL Type 4X / IP66     | 7.9          | \$749      |
| VFD-RSI-001-SW-24 | 0.75      | 1                             | 5    | 10.1                | 7.09  | 6.85 | UL Type 4X / IP66     | 7.9          | \$761      |
| VFD-RSI-002-SW-24 | 1.5       | 2                             | 8    | 10.19               | 8.66  | 7.91 | UL Type 4X / IP66     | 11.5         | \$975      |
| VFD-RSI-003-SW-24 | 2.2       | 3                             | 11   | 10.19               | 8.66  | 7.91 | UL Type 4X / IP66     | 11.7         | \$1,037    |
| VFD-RSI-005-SW-24 | 3.7       | 5                             | 16   | 10.19               | 8.66  | 7.91 | UL Type 4X / IP66     | 12.3         | \$1,389    |
| VFD-RSI-007-SW-24 | 5.5       | 7.5                           | 24   | 12.91               | 9.84  | 8.94 | UL Type 4X / IP66     | 19.8         | \$2,077    |
| VFD-RSI-010-SW-24 | 7.5       | 10                            | 32   | 12.91               | 9.84  | 8.94 | UL Type 4X / IP66     | 19.8         | \$2,318    |
| VFD-RSI-015-SW-24 | 11        | 15                            | 46   | 15.73               | 10.24 | 9.66 | UL Type 4X / IP66     | 21.2         | \$2,865    |
| VFD-RSI-020-SW-24 | 15        | 20                            | 60   | 18.11               | 11.81 | 9.84 | UL Type 4X / IP66     | 26.7         | \$3,260    |

\* Indoor Washdown only.

| Model Number      | kW Rating | Heavy Duty<br>150% OL / 1min. |      | Dimensions (inches) |       |      | Degree of Protection* | Weight (lbs) | List Price |
|-------------------|-----------|-------------------------------|------|---------------------|-------|------|-----------------------|--------------|------------|
|                   |           | HP                            | Amps | H                   | W     | D    |                       |              |            |
| VFD-RSI-0F5-SW-44 | 0.4       | 0.5                           | 1.3  | 10.1                | 7.09  | 6.85 | UL Type 4X / IP66     | 8.2          | \$912      |
| VFD-RSI-001-SW-44 | 0.75      | 1                             | 2.5  | 10.1                | 7.09  | 6.85 | UL Type 4X / IP66     | 8.2          | \$932      |
| VFD-RSI-002-SW-44 | 1.5       | 2                             | 4    | 10.19               | 8.6   | 7.91 | UL Type 4X / IP66     | 11.7         | \$1,000    |
| VFD-RSI-003-SW-44 | 2.2       | 3                             | 5.5  | 10.19               | 8.6   | 7.91 | UL Type 4X / IP66     | 12.1         | \$1,238    |
| VFD-RSI-005-SW-44 | 3.7       | 5                             | 8    | 10.19               | 8.6   | 7.91 | UL Type 4X / IP66     | 12.3         | \$1,932    |
| VFD-RSI-007-SW-44 | 5.5       | 7.5                           | 12   | 12.91               | 9.84  | 8.94 | UL Type 4X / IP66     | 19.4         | \$2,568    |
| VFD-RSI-010-SW-44 | 7.5       | 10                            | 16   | 12.91               | 9.84  | 8.94 | UL Type 4X / IP66     | 19.6         | \$2,849    |
| VFD-RSI-015-SW-44 | 11        | 15                            | 24   | 15.73               | 10.24 | 9.66 | UL Type 4X / IP66     | 21.2         | \$3,015    |
| VFD-RSI-020-SW-44 | 15        | 20                            | 30   | 15.73               | 10.24 | 9.66 | UL Type 4X / IP66     | 21.6         | \$3,657    |
| VFD-RSI-025-SW-44 | 18.5      | 25                            | 39   | 18.11               | 11.81 | 9.84 | UL Type 4X / IP66     | 27.3         | \$3,724    |
| VFD-RSI-030-SW-44 | 22        | 30                            | 45   | 18.11               | 11.81 | 9.84 | UL Type 4X / IP66     | 27.3         | \$3,978    |

\* Indoor Washdown only.

## SW Series - Accessories

### DISPLAY / KEYPAD REMOTE MOUNTING

| Part Number        | Description  | List Price |
|--------------------|--|------------|
| LCD-100001-00      | Remote LCD Display/Keypad, S & SW Series VFD                             | \$125      |
| VFD-2M-RE-CABLE-H2 | Bezel & Cable, RJ45, 2M, S/SW/H2 Series VFD, for Remote Mounting         | \$33       |
| VFD-3M-RE-CABLE-H2 | Bezel & Cable, RJ45, 3M, S/SW/H2 Series VFD, for Remote Mounting         | \$46       |
| CV-100017-00       | LCD Cover, Remote Mounting, NEMA 4X, S, SW & H2 Series VFD with 3M Cable | \$203      |

### COMMUNICATION CARDS AND I/O CARDS

| Part Number  | Description                          | List Price |
|--------------|--------------------------------------|------------|
| PC-100090-00 | Extended I/O Card, S & SW Series VFD | \$313      |
| PC-100092-00 | Ethernet IP & Modbus TCP Option Card | \$230      |
| PC-100094-00 | CANopen Option Card                  | CF         |
| PC-100095-00 | Profinet Option Card                 | \$473      |

CF Consult Factory