

# Compumotor

## S3 and SX3/SXF3 User Guide Supplement

Compumotor Division  
Parker Hannifin Corporation  
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## How to use this user guide supplement

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The S3 Drive and SX3/SXF3 Drive/Indexer are products derived from the popular S Series family. This user guide supplement contains the additional information needed to operate an S3 Drive or SX3/SXF3 Drive/Indexer. The information in the following sections represents the only differences between the S3, SX3, and SXF3 and the rest of the S Series. Except for motor current settings and dimensional information, the information in the S drive or SX/F user guides is valid.

### What You Should Have

The following items should be present and in good condition:

Part	Part Number
Power Cable	44-000054-01
S Drive or SX or SXF Drive/ Indexers	S3 SX3 or SXF3
S Drive User Guide or SX/SXF User Guide and Software Reference	88-011483-01 88-011850-01 88-011798-01
S3 and SX/F User Guide Supplement	88-014105-01

### Product Description

The S3 Drive and SX3/SXF3 Drive/Indexer are lower power versions of the S6 Drive and SX6/F Drive/Indexer. All features are identical except that the output current is a maximum 3.5 amps/phase compared to 6 amps/phase in the S6 and SX6/F and the width is approximately 1 inch less.

### Compumotor Motors — Setting Motor Current

The S3 and SX3 provide bipolar 0-3.5 amps/phase. By checking the serial tag on the drive, you can verify that this is an **SX3 Drive** or an **S3 Drive**. The following table contains the proper motor current settings for the Compumotor motors. **SW1-#1** through **SW1-#6** control **motor current**. Adjust the motor current to match the motor that you are using. Compumotor's NEMA23 motors can be configured for either series or parallel operation. Refer to *Chapter 3, Installation* for instructions.

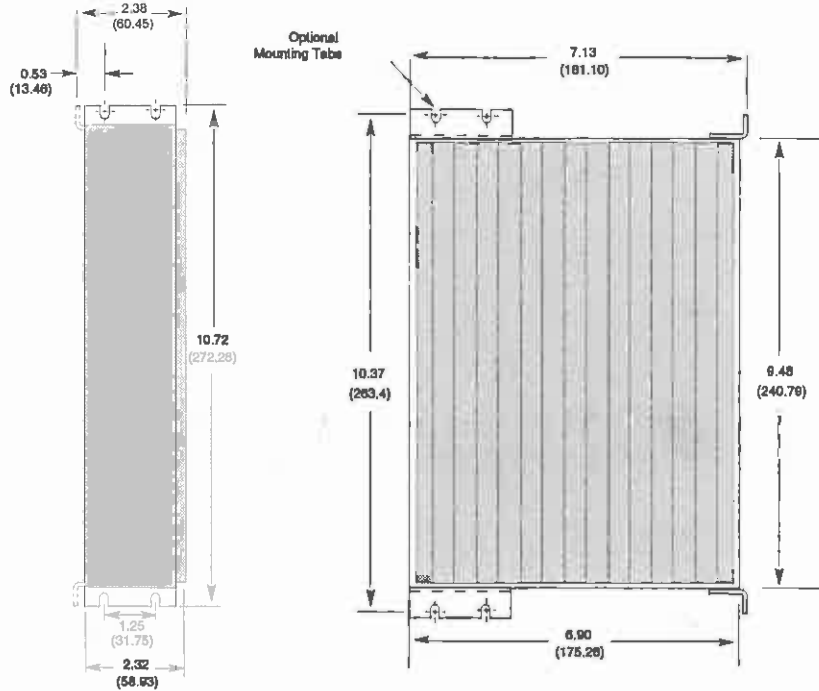
Motor Size	Current	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6
S57-51S	1.17	off	on	off	on	off	on
S57-51P	2.30	on	off	on	off	off	on
S57-83S	1.50	off	on	on	off	on	on
S57-83P	3.06	on	on	off	on	on	on
S57-102S	1.72	off	on	on	on	on	on
S57-102P	3.50	on	on	on	on	on	on
S83-62S	2.19	on	off	off	on	on	on
S83-93S	2.84	on	on	off	off	on	on
S83-135S	3.50	on	on	on	on	on	on

## S3/SX3/SXF3 Current Selection Settings

Current	SW1- #1	SW1- #2	SW1- #3	SW1- #4	SW1- #5	SW1- #6
0.023	off	off	off	off	off	off
0.76	off	off	off	off	off	on
0.13	off	off	off	off	on	off
0.19	off	off	off	off	on	on
0.25	off	off	off	on	off	off
0.30	off	off	off	on	off	on
0.36	off	off	off	on	on	off
0.41	off	off	off	on	on	on
0.47	off	off	on	off	off	off
0.52	off	off	on	off	off	on
0.58	off	off	on	off	on	off
0.63	off	off	on	off	on	on
0.69	off	off	on	on	off	off
0.74	off	off	on	on	off	on
0.80	off	off	on	on	on	off
0.85	off	off	on	on	on	on
0.89	off	on	off	off	off	off
0.95	off	on	off	off	off	on
1.00	off	on	off	off	on	off
1.06	off	on	off	off	on	on
1.10	off	on	off	on	off	off
1.17	off	on	off	on	off	on
1.22	off	on	off	on	on	off
1.28	off	on	off	on	on	on
1.33	off	on	on	off	off	off
1.39	off	on	on	off	off	on
1.44	off	on	on	off	on	off
1.50	off	on	on	off	on	on
1.55	off	on	on	on	off	off
1.61	off	on	on	on	off	on
1.66	off	on	on	on	on	off
1.72	off	on	on	on	on	on

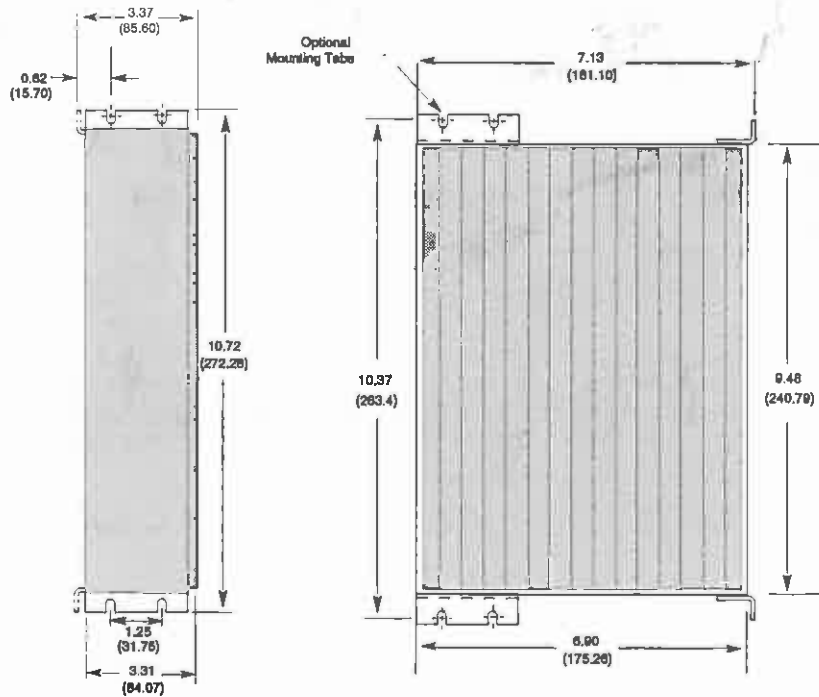
Current	SW1- #1	SW1- #2	SW1- #3	SW1- #4	SW1- #5	SW1- #6
1.80	on	off	off	off	off	off
1.86	on	off	off	off	off	on
1.91	on	off	off	off	on	off
1.97	on	off	off	off	on	on
2.02	on	off	off	on	off	off
2.08	on	off	off	on	off	on
2.14	on	off	off	on	on	off
2.19	on	off	off	on	on	on
2.25	on	off	on	off	off	off
2.30	on	off	on	off	off	on
2.36	on	off	on	off	on	off
2.42	on	off	on	off	on	on
2.47	on	off	on	on	off	off
2.53	on	off	on	on	off	on
2.58	on	off	on	on	on	off
2.63	on	off	on	on	on	on
2.67	on	on	off	off	off	off
2.73	on	on	off	off	off	on
2.78	on	on	off	off	on	off
2.84	on	on	off	off	on	on
2.89	on	on	off	on	off	off
2.95	on	on	off	on	off	on
3.00	on	on	off	on	on	off
3.06	on	on	off	on	on	on
3.12	on	on	on	off	off	off
3.17	on	on	on	off	off	on
3.23	on	on	on	off	on	off
3.28	on	on	on	off	on	on
3.34	on	on	on	on	off	off
3.39	on	on	on	on	off	on
3.45	on	on	on	on	on	off
3.50	on	on	on	on	on	on

## S3 Drive Dimensions



S3 Drive Dimensions in (mm)

## SX3/SXF3 Drive/Indexer Dimensions



SX3/SXF3 Drive/Indexer Dimensions in (mm)