STANDARD PRODUCTS

Sensorless Vector Drives 230V

Web stocked

SG SERIES / NEMA 1

MODEL NUMBER	VARIABLE TORQUE HP AMPS		STANDARD DUTY HP AMPS		HEAVY DUTY HP AMPS		DIMENSIONS (IN)			WGT (LBS)	LIST PRICE
		_		_							
↑ RSI-007-SG-2-B	7.5	24	7.5	22	5	17	11.2	5.9	6.2	8	CF
[↑] RSI-010-SG-2-B	10	32	10	29	7.5	23	11.2	7.9	7.2	11	CF
↑ RSI-015-SG-2-B	15	46	15	42	10	33	11.2	7.9	7.2	17	CF
── RSI-020-SG-2-B	20	60	20	55	15	44	17.9	9.8	7.9	22	CF
↑ RSI-025-SG-2-B	25	74	25	67	20	54	17.9	9.8	7.9	28	CF
↑ RSI-030-SG-2-B	30	88	30	80	25	68	23.6	12	9.2	34	CF
↑ RSI-040-SG-2-B	40	115	40	105	30	84	23.6	12	9.2	44	CF

VARIABLE TORQUE = 110% current for 1 minute

STANDARD DUTY = 120% current for 1 minute

HEAVY DUTY = 150% current for 1 minute

For standard drive accessories refer to pages 2-22 - 2-30.

Web stocked

Sensorless Vector Drives 460V



SG SERIES NEMA 1 / PROTECTED CHASSIS

MODEL NUMBER	VARIABLE TORQUE		STANDARD DUTY		HEAVY DUTY		DIMENSIONS (IN)			WGT	LIST PRICE
	HP	AMPS	HP	AMPS	HP	AMPS	Н	W	D	(LBS)	
↑ RSI-007-SG-4-B	7.5	12	7.5	11	5	8	11.2	5.9	6.2	8	CF
↑ RSI-010-SG-4-B	10	16	10	14	7.5	11	11.2	7.9	7.2	11	CF
↑ RSI-015-SG-4-B	15	24	15	22	10	17	11.2	7.9	7.2	17	CF
↑ RSI-020-SG-4-B	20	30	20	27	15	22	17.9	9.8	7.9	22	CF
↑ RSI-025-SG-4-B	25	39	25	35	20	28	17.9	9.8	7.9	28	CF
↑ RSI-030-SG-4-B	30	45	30	41	25	34	23.6	12	9.2	34	CF
↑ RSI-040-SG-4-B	40	61	40	55	30	44	23.6	12	9.2	44	CF
── RSI-050-SG-4-B	50	75	50	68	40	55	25.3	12.1	10.5	60	CF
↑ RSI-060-SG-4-B	60	91	60	83	50	66	25.3	12.1	10.5	60	CF
── RSI-075-SG-4-B	75	110	75	100	60	80	25.3	12.1	11.2	64	CF
↑ RSI-100-SG-4-B	100	152	100	139	75	111	30.2	14.5	12.1	95	CF
↑ RSI-125-SG-4-B	125	183	125	167	100	134	30.2	14.5	12.1	95	CF
↑ RSI-150-SG-4 •	150	223	150	204	125	164	30.3	20.1	16.6	225	CF
^ RSI-200-SG-4 •	200	264	200	242	150	194	30.3	20.1	16.6	225	CF
↑ RSI-250-SG-4 •	250	325	250	302	200	240	32.3	20.1	16.6	255	CF
¹ RSI-350-SG-4 ●	350	432	300	396	250	317	40.5	27.2	17.3	450	CF
↑ RSI-400-SG-4 •	400	547	400	501	300	401	40.5	27.2	17.3	450	CF
↑ RSI-500-SG-4 •	500	613	450	562	350	450	43.7	30.8	17.4	540	CF
↑ RSI-600-SG-4 •	600	731	500	670	400	536	51.3	36.3	19.5	840	CF
↑ RSI-700-SG-4 •	700	877	600	804	500	643	51.3	36.3	19.5	840	CF

VARIABLE TORQUE = 110% current for 1 minute

STANDARD DUTY = 120% Current for 1 Minute

HEAVY DUTY = 150% Current for 1 Minute

For Standard Drive Accessories refer to pages 2-22 - 2-30.

Units ending in a "B" designate NEMA 1. Units not ending in a "B" are protected chassis units.

Protected chassis only (no cover on control or power terminals).

Web stocked



Sensorless Vector Drives



SG SERIES

VARIABLE TORQUE / STANDARD DUTY / HEAVY DUTY

Variable Torque:

7.5 to 700HP @ 460V 7.5 to 40HP @ 230V

Standard Duty:

7.5 to 600HP @ 460V 7.5 to 40HP @ 230V

Heavy Duty:

5 to 500HP @ 460V 5 to 30HP @ 230V



RSI SG Series Product Highlights:

The SG series is a compact, economical drive designed for the most demanding applications. The flexible power stack allows the user to apply it to heavy duty loads (150% for 60 secs), standard duty loads (120% for 60 secs), or variable torque loads (110% for 60 secs).

With over 250 programmable parameters, Benshaw's SG series drives are configurable to meet the needs of almost any industrial application, yet remain simple and easy to use.

Key Advantages:

- Standard and heavy duty ratings
- Integral PID Control
- Sensorless vector control or V/Hz control
- Integral multiple motor control for pumping applications
- Uploadable / downloadable keypad
- ◆ Flexible, programmable I/O
- ◆ Economical, compact design
- ♦ Simple, easy to use LCD interface
- Standard ModBus port
- Windows-based software

Guaranteed ... for two full years.

Only Benshaw has a two year guarantee.

Every Benshaw variable frequency drive is guaranteed for two full years. Other manufacturers limit their warranties to just one year. But at Benshaw, we believe that, because we build them better, we can guarantee them longer. We call that "the Benshaw Promise."



Standard Features:

- Standard I/O:
 8 digital inputs, 2 analog inputs,
 2 analog outputs, 5 relay outputs
- Digital metering:
 Output current, output frequency,
 DC link voltage, motor RPM
- Protection:
 Over current, ground fault, over voltage, current limit, motor overload, phase loss, over heat, loss of signal, and more
- Communications: ModBus standard, optional DeviceNet, Profibus and other fieldbus available
- ♦ Voltage tolerance: +/- 10%
- Control method:Open loop V/HZ
- V/HZ patterns:
 Linear, quadratic, sensorless vector
- Analog output functions:
 2 analog outputs 0-10VDC
 configurable to motor speed, output
 current, output voltage, DC link
 voltage, PID follower
- ◆ Analog inputs: 4-20mA, 0-10VDC -10 - +10VDC
- Relay outputs:
 1 Form C relay output, 4 Form A relay outputs configurable to running, faulted, ready, at speed, high or low frequency levels, loss of signal, ready, and more
- Digital inputs:
 8 digital inputs configurable to forward run, reverse run, jog, preset speeds, motorized pot function, emergency stop, alternate ramp selections, HOA, and more
- User interface:
 2 line, 16 character per line
 LCD display
- Braking functions: Coast, decel, DC injection braking, flux braking and optional dynamic braking