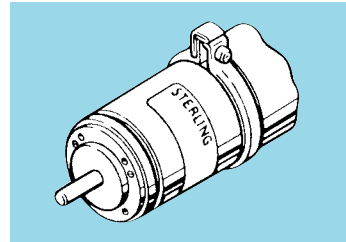
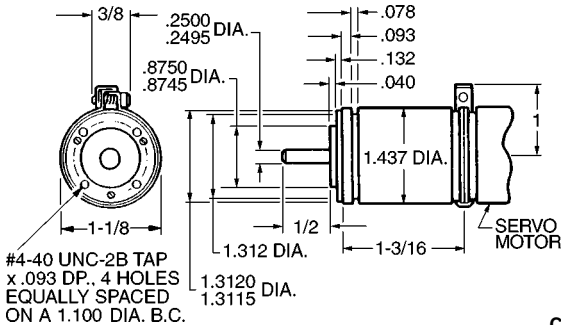


■ 1-7/16 INCH OUTSIDE DIAMETER

■ PAT. NO. 2,892,357



**S** Precision  
Component

CATALOG NUMBER DESIGNATION:

**S 9 1 1 5 A - T 6 2 3 -**

Insert Dash No. from table below.

Example: S9115A-T623-16 has a 45.75: 1 ratio.

**SPECIFICATIONS:**

**Input Pinion (Motor)** – 13 Teeth-120 Pitch

**Maximum Backlash** – 0°30'

**Maximum Starting Torque** – .01 oz. in.

**Rated Output Torque** – 40 oz. in.

**NOTES:** (1) "S" indicates output rotates in the same direction as input; "R" denotes opposite rotation.  
(2) Ball bearings used throughout.

Dash No.	Ratio To 1	Rotation
-01	7.91	S
-02	9.17	S
-03	10.15	S
-04	13.29	S
-05	14.08	S
-06	15.39	S
-07	18.00	S
-08	20.62	S
-09	25.71	R
-10	29.45	R
-11	29.81	R
-12	33.00	R
-13	34.14	R
-14	37.80	R
-15	43.20	R
-16	45.75	R
-17	49.48	R
-18	50.00	R
-19	52.40	R
-20	57.27	R
-21	58.50	R
-22	67.00	R
-23	76.74	R
-24	83.57	S
-25	95.71	S
-26	96.89	S
-27	107.25	S
-28	109.62	S
-29	110.97	S
-30	122.83	S

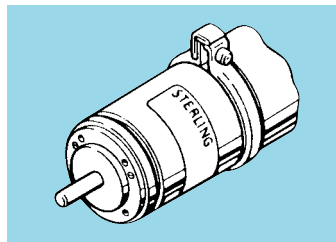
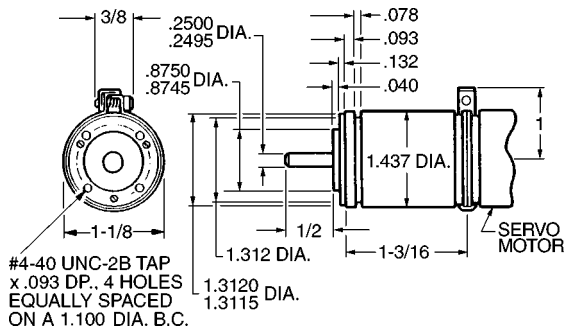
Dash No.	Ratio To 1	Rotation
-31	127.09	S
-32	140.40	S
-33	140.68	S
-34	148.69	S
-35	160.80	S
-36	162.50	S
-37	170.29	S
-38	184.16	S
-39	186.11	S
-40	190.13	S
-41	195.04	S
-42	213.15	S
-43	217.75	S
-44	249.39	S
-45	285.63	S
-46	311.07	R
-47	356.27	R
-48	360.65	R
-49	399.21	R
-50	408.04	R
-51	413.05	R
-52	457.21	R
-53	473.07	R
-54	522.60	R
-55	523.65	R
-56	553.45	R
-57	598.53	R
-58	604.86	R
-59	633.86	R

Dash No.	Ratio To 1	Rotation
-60	685.50	R
-61	692.75	R
-62	707.69	R
-63	725.96	R
-64	793.40	R
-65	810.51	R
-66	928.28	R
-67	1063.16	R
-68	1010.98	S
-69	1172.11	S
-70	1297.43	S
-71	1698.45	S
-72	1798.71	S
-73	1965.80	S
-74	2299.98	S
-75	3285.69	R
-76	3763.10	R
-77	3809.35	R
-78	4216.64	R
-79	4362.84	R
-80	4829.31	R
-81	5519.96	R
-82	5845.79	R
-83	6322.01	R
-84	6388.85	R
-85	6695.18	R
-86	7317.14	R
-87	7474.95	R
-88	8561.05	R

Zero backlash, lower backlash, exact ratios, etc., are available on special order.  
For additional information, see preceding technical data and special gearhead pages.

■ 1-7/16 INCH OUTSIDE DIAMETER

■ PAT. NO. 2,892,357



**S** Precision Component

### SPECIFICATIONS:

**Input Pinion (Motor) – 15 Teeth-96 Pitch**

**Maximum Backlash – 0°30'**

**Maximum Starting Torque – .01 oz. in.**

**Rated Output Torque – 40 oz. in.**

### CATALOG NUMBER DESIGNATION:

**S 9 1 1 5 A - T 6 2 3 A -**

Insert Dash No. from table below.  
Example: S9115A-T623A-16 has a 43.19: 1 ratio.

**NOTES:** (1) "S" indicates output rotates in the same direction as input; "R" denotes opposite rotation.  
(2) Ball bearings used throughout.

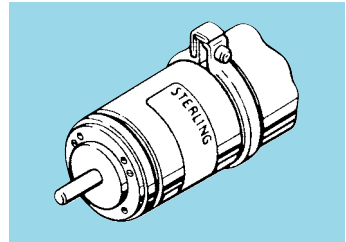
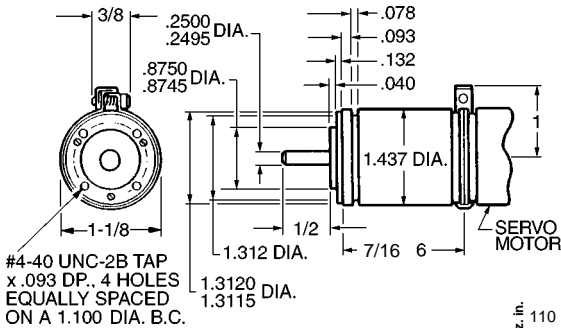
Dash No.	Ratio To 1	Rotation
- 01	5.05	S
- 02	6.48	S
- 03	8.48	S
- 04	9.82	S
- 05	12.11	R
- 06	14.02	R
- 07	15.55	R
- 08	17.99	R
- 09	20.35	R
- 10	23.56	R
- 11	27.26	R
- 12	29.07	S
- 13	33.65	S
- 14	37.31	S
- 15	38.95	S
- 16	43.19	S
- 17	48.85	S
- 18	49.98	S
- 19	56.53	S
- 20	65.43	S

Dash No.	Ratio To 1	Rotation
- 21	75.73	S
- 22	69.78	R
- 23	80.76	R
- 24	89.55	R
- 25	93.47	R
- 26	103.64	R
- 27	108.19	R
- 28	117.23	R
- 29	119.96	R
- 30	135.68	R
- 31	138.84	R
- 32	157.04	R
- 33	181.76	R
- 34	210.37	R
- 35	193.83	S
- 36	224.34	S
- 37	248.75	S
- 38	259.65	S
- 39	287.90	S
- 40	300.52	S

Dash No.	Ratio To 1	Rotation
- 41	325.63	S
- 42	333.22	S
- 43	376.89	S
- 44	385.67	S
- 45	436.21	S
- 46	504.88	S
- 47	584.35	S
- 48	538.41	R
- 49	623.16	R
- 50	690.96	R
- 51	721.25	R
- 52	799.73	R
- 53	834.78	R
- 54	904.53	R
- 55	925.61	R
- 56	1046.91	R
- 57	1071.31	R
- 58	1211.71	R
- 59	1402.44	R
- 60	1623.19	R

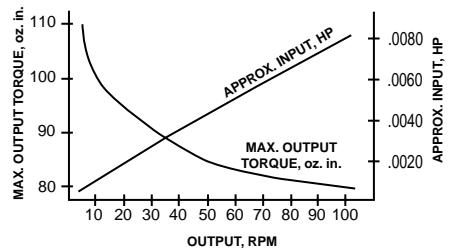
Zero backlash, lower backlash, exact ratios, etc., are available on special order.  
For additional information, see preceding technical data and special gearhead pages.

### ■ HIGH-PRECISION



#### SPECIFICATIONS:

- Input Pinion (Motor) – 13 Teeth-120 Pitch
- Maximum Backlash – 0°30'
- Maximum Starting Torque – .01 oz. in.



- NOTES:** (1) "S" indicates output rotates in the same direction as input; "R" denotes opposite rotation.  
(2) Ball bearings used throughout.

Catalog Number	Ratio	Rotation
S9115A-P0020S3	19.57	S
S9115A-P0022R3	22.02	R
S9115A-P0025R3	25.39	R
S9115A-P0031R3	30.84	R
S9115A-P0036R3	35.88	R
S9115A-P0040R3	39.84	R
S9115A-P0047R3	46.97	R
S9115A-P0056R3	56.04	R
S9115A-P0068R3	67.98	R
S9115A-P0073R3	72.84	R
S9115A-P0082S3	81.95	S
S9115A-P0095S3	94.50	S
S9115A-P0115S3	114.78	S
S9115A-P0134S3	133.54	S
S9115A-P0148S3	148.28	S
S9115A-P0175S3	174.82	S
S9115A-P0209S3	208.59	S
S9115A-P0253S3	253.03	S
S9115A-P0271S3	271.13	S
S9115A-P0305R3	305.02	R
S9115A-P0372R3	372.09	R
S9115A-P0427R3	427.24	R
S9115A-P0497R3	497.07	R

Catalog Number	Ratio	Rotation
S9115A-P0567R3	566.72	R
S9115A-P0676R3	676.20	R
S9115A-P0776R3	776.42	R
S9115A-P0942R3	941.82	R
S9115A-P1009R3	1009.21	R
S9115A-P1135S3	1135.36	S
S9115A-P1385S3	1384.99	S
S9115A-P1590S3	1590.27	S
S9115A-P1850S3	1850.21	S
S9115A-P2109S3	2109.44	S
S9115A-P2422S3	2422.10	S
S9115A-P2849S3	2849.28	S
S9115A-P3272S3	3271.59	S
S9115A-P3757S3	3756.50	S
S9115A-P4490R3	4489.77	R
S9115A-P5155R3	5155.23	R
S9115A-P5919R3	5919.33	R
S9115A-P7137R3	7137.54	R
S9115A-P8159R3	8159.30	R
S9115A-P9369R3	9368.65	R
S9115A-PA136R3	11364.47	R
S9115A-PA398R3	13982.51	R

Zero backlash, lower backlash, exact ratios, etc., are available on special order.

For additional information, see preceding technical data and special speed reducer pages.