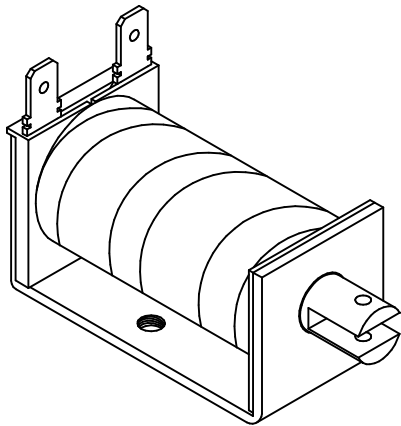


MAGNETIC SENSOR SYSTEMS

Pull Type C-Frame Solenoid



Series S-17-85
0.84" X 0.92" X 1.75"

TOTAL WEIGHT: 3.7 OUNCES

PLUNGER WEIGHT: 0.5 OUNCES

duty cycle	1	1/2	1/4	1/8
maximum "ON" time, (Sec.)	∞	100	15	10
watts	5	10	20	40
approximate ampere turns	1060	1500	2120	3000

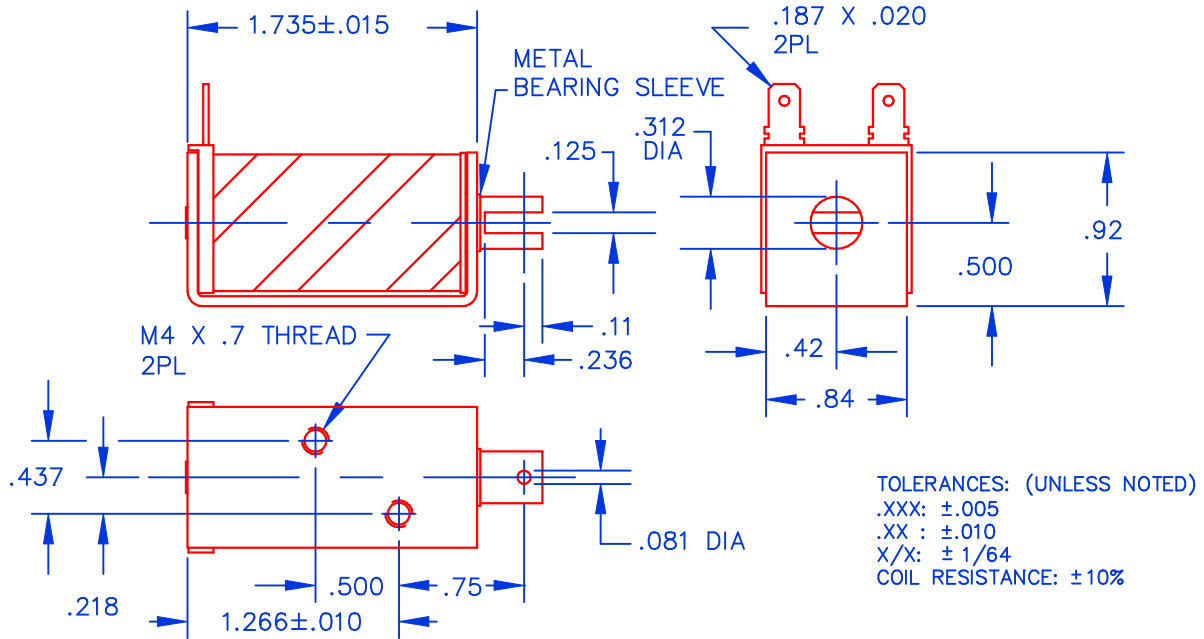
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.0	4.2	6.0	8.5
24	2.7	3.7	5.2	7.3	10.4
25	4.4	4.7	6.6	9.4	13.3
26	7.4	6.1	8.6	12.2	17.2
27	11.0	7.4	10.5	14.8	21.0
28	18.7	9.7	13.7	19.3	27.3
29	30.3	12.3	17.4	24.6	34.8
30	46.1	15.2	21.5	30.4	42.9
31	76.9	19.6	27.7	39.2	55.5
32	117	24.2	34.2	48.4	68.4
33	185	30.4	43.0	60.8	86.0
34	286	37.8	53.5	75.6	107
35	477	48.8	69.1	97.7	138
36	705	59.4	84.0	119	168
37	1105	74.3	105	149	210
38	1643	90.6	128	181	256
39	2915	121	171	241	341
40	4610	152	215	304	429

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

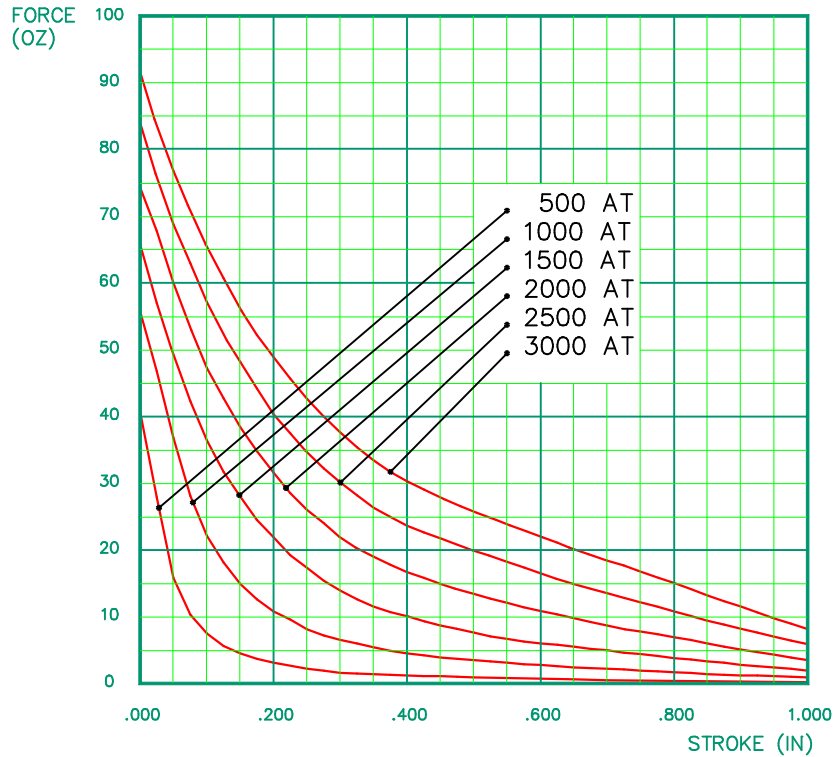
S-17-85

MECHANICAL DIMENSIONS



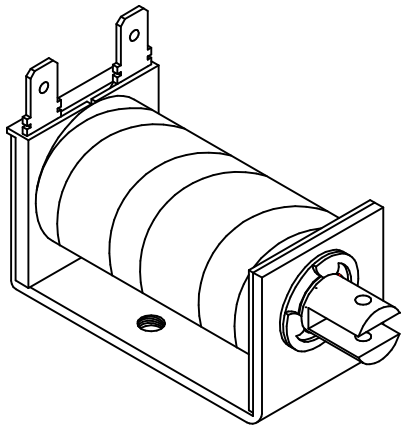
SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Pull Type C-Frame Solenoid



Series S-17-85-Q
0.84" X 0.92" X 1.75"

TOTAL WEIGHT: 3.7 OUNCES

PLUNGER WEIGHT: 0.5 OUNCES

duty cycle	1	1/2	1/4	1/8
maximum "ON" time, (Sec.)	∞	100	15	10
watts	5	10	20	40
approximate ampere turns	1060	1500	2120	3000

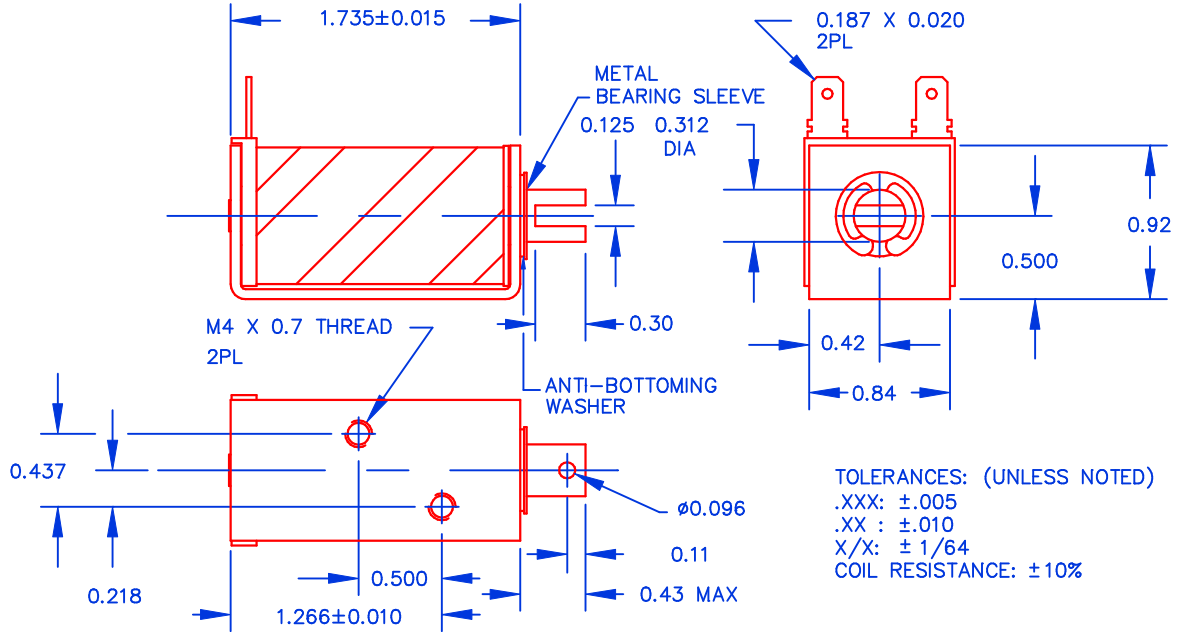
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.0	4.2	6.0	8.5
24	2.7	3.7	5.2	7.3	10.4
25	4.4	4.7	6.6	9.4	13.3
26	7.4	6.1	8.6	12.2	17.2
27	11.0	7.4	10.5	14.8	21.0
28	18.7	9.7	13.7	19.3	27.3
29	30.3	12.3	17.4	24.6	34.8
30	46.1	15.2	21.5	30.4	42.9
31	76.9	19.6	27.7	39.2	55.5
32	117	24.2	34.2	48.4	68.4
33	185	30.4	43.0	60.8	86.0
34	286	37.8	53.5	75.6	107
35	477	48.8	69.1	97.7	138
36	705	59.4	84.0	119	168
37	1105	74.3	105	149	210
38	1643	90.6	128	181	256
39	2915	121	171	241	341
40	4610	152	215	304	429

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

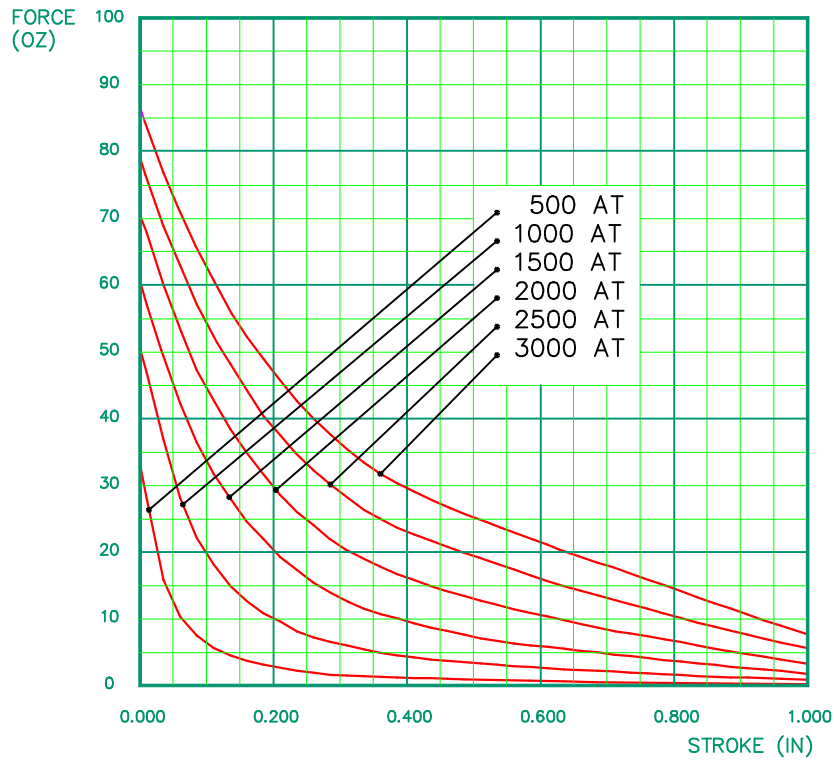
S-17-85Q

MECHANICAL DIMENSIONS



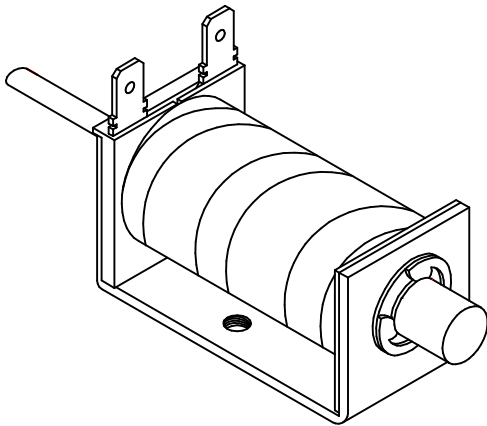
SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Push Type C-Frame Solenoid



Series S-17-85QH
0.84" X 0.92" X 1.75"

TOTAL WEIGHT: 3.9 OUNCES

PLUNGER WEIGHT: 0.7 OUNCES

duty cycle	1	1/2	1/4	1/8
maximum "ON" time, (Sec.)	∞	100	15	10
watts	5	10	20	40
approximate ampere turns	1060	1500	2120	3000

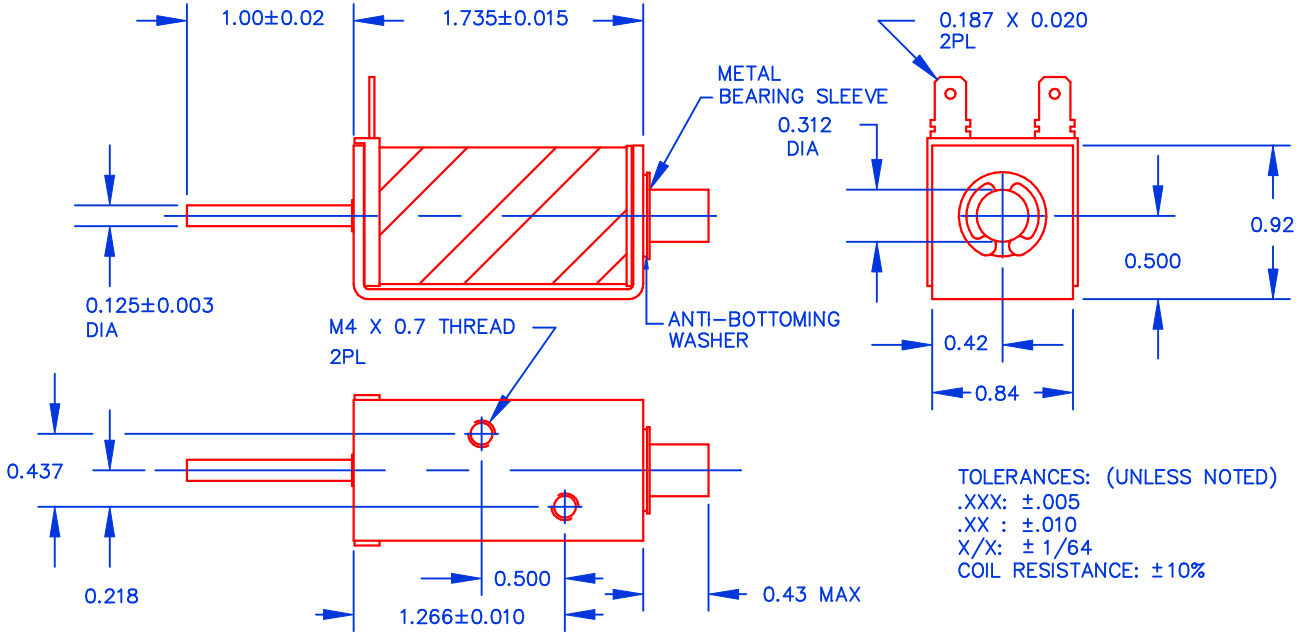
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.0	4.2	6.0	8.5
24	2.7	3.7	5.2	7.3	10.4
25	4.4	4.7	6.6	9.4	13.3
26	7.4	6.1	8.6	12.2	17.2
27	11.0	7.4	10.5	14.8	21.0
28	18.7	9.7	13.7	19.3	27.3
29	30.3	12.3	17.4	24.6	34.8
30	46.1	15.2	21.5	30.4	42.9
31	76.9	19.6	27.7	39.2	55.5
32	117	24.2	34.2	48.4	68.4
33	185	30.4	43.0	60.8	86.0
34	286	37.8	53.5	75.6	107
35	477	48.8	69.1	97.7	138
36	705	59.4	84.0	119	168
37	1105	74.3	105	149	210
38	1643	90.6	128	181	256
39	2915	121	171	241	341
40	4610	152	215	304	429

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

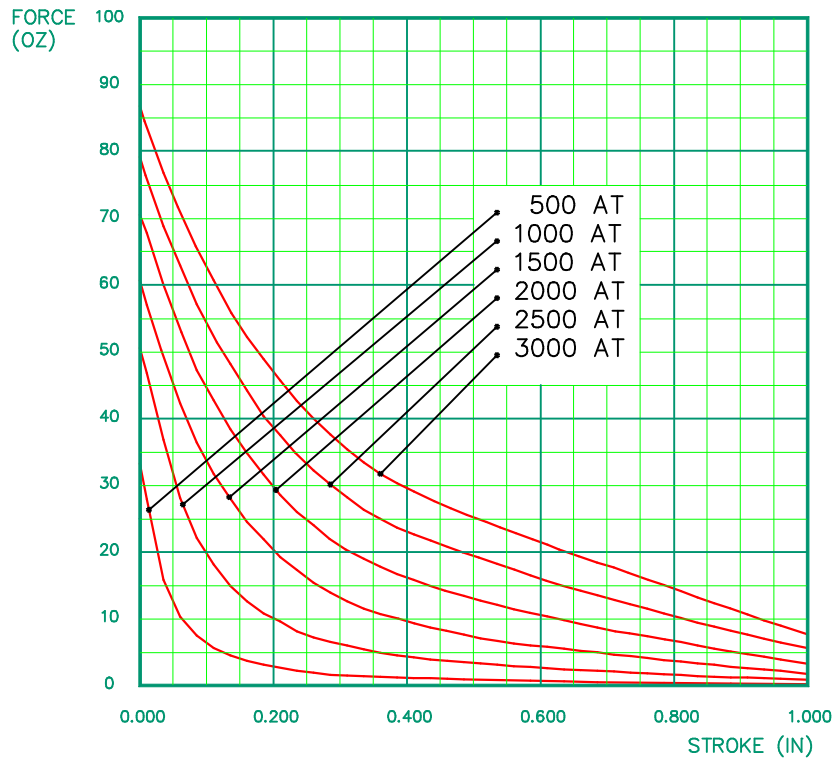
S-17-85QH

MECHANICAL DIMENSIONS



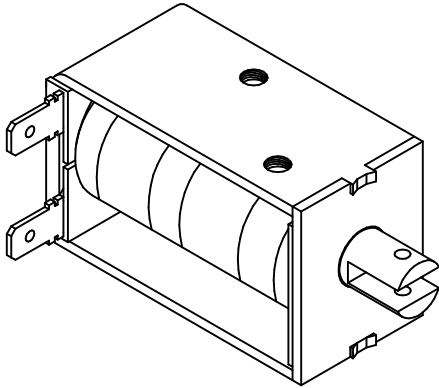
SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Pull Type D-Frame Solenoid



Series S-18-100
0.84" X 1.00" X 1.75"

TOTAL WEIGHT: 3.8 OUNCES

PLUNGER WEIGHT: 0.5 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	200	50	20
watts	7.5	15	30	75
approximate ampere turns	1100	1550	2200	3450

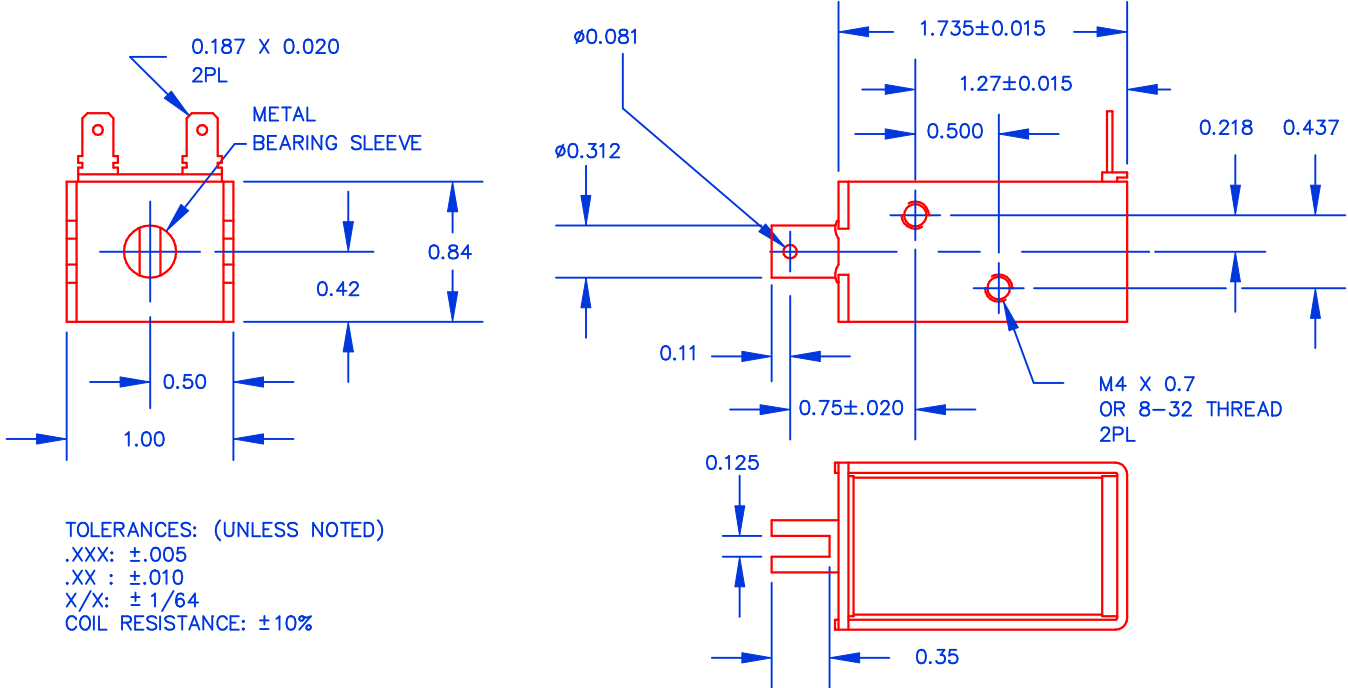
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.7	5.3	7.4	11.7
24	2.7	4.4	6.2	8.8	13.9
25	4.4	6.0	8.4	11.9	18.8
26	7.4	7.5	10.6	14.9	23.6
27	11.0	8.8	12.5	17.6	27.9
28	18.7	11.7	16.6	23.4	37.0
29	30.3	15.0	21.2	30.0	47.5
30	46.1	18.2	25.7	36.4	57.6
31	76.9	23.9	33.8	47.9	75.7
32	117	30.1	42.6	60.3	95.3
33	185	36.5	51.5	72.9	115
34	286	46.9	66.3	93.9	148
35	477	61.0	86.2	122	193
36	705	73.9	104	148	234
37	1105	90.6	128	181	286
38	1643	111	157	223	352
39	2915	148	209	296	467
40	4610	186	263	372	588

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

S-18-100

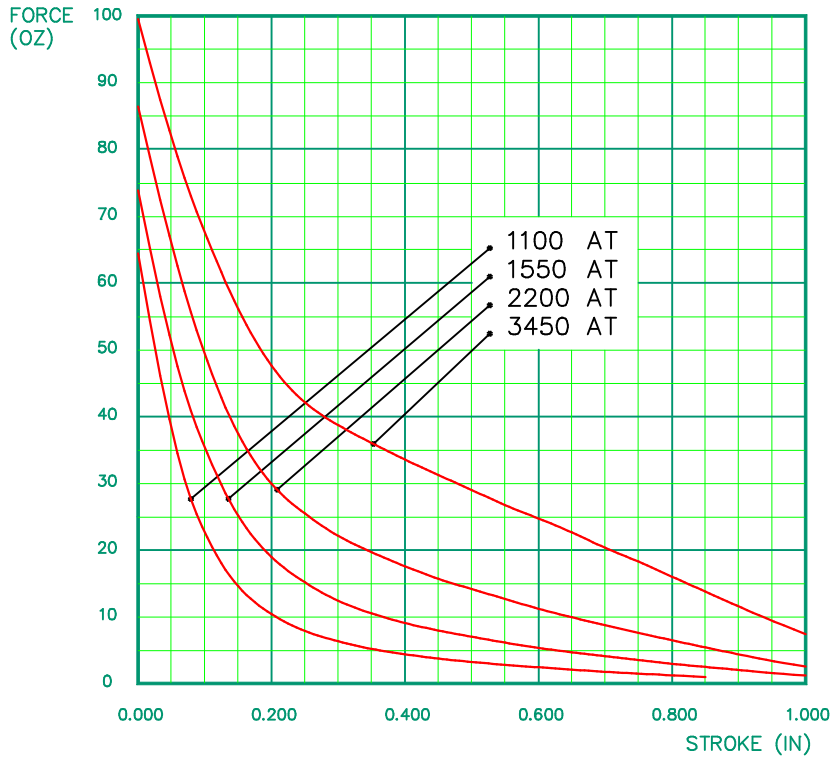
MECHANICAL DIMENSIONS



TOLERANCES: (UNLESS NOTED)
 .XXX: ±.005
 .XX : ±.010
 X/X: ± 1/64
 COIL RESISTANCE: ±10%

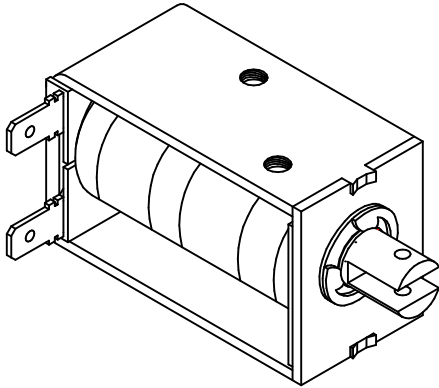
SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Pull Type D-Frame Solenoid



Series S-18-100-Q
0.84" X 1.00" X 1.75"

TOTAL WEIGHT: 3.8 OUNCES

PLUNGER WEIGHT: 0.5 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	200	50	20
watts	7.5	15	30	75
approximate ampere turns	1100	1550	2200	3450

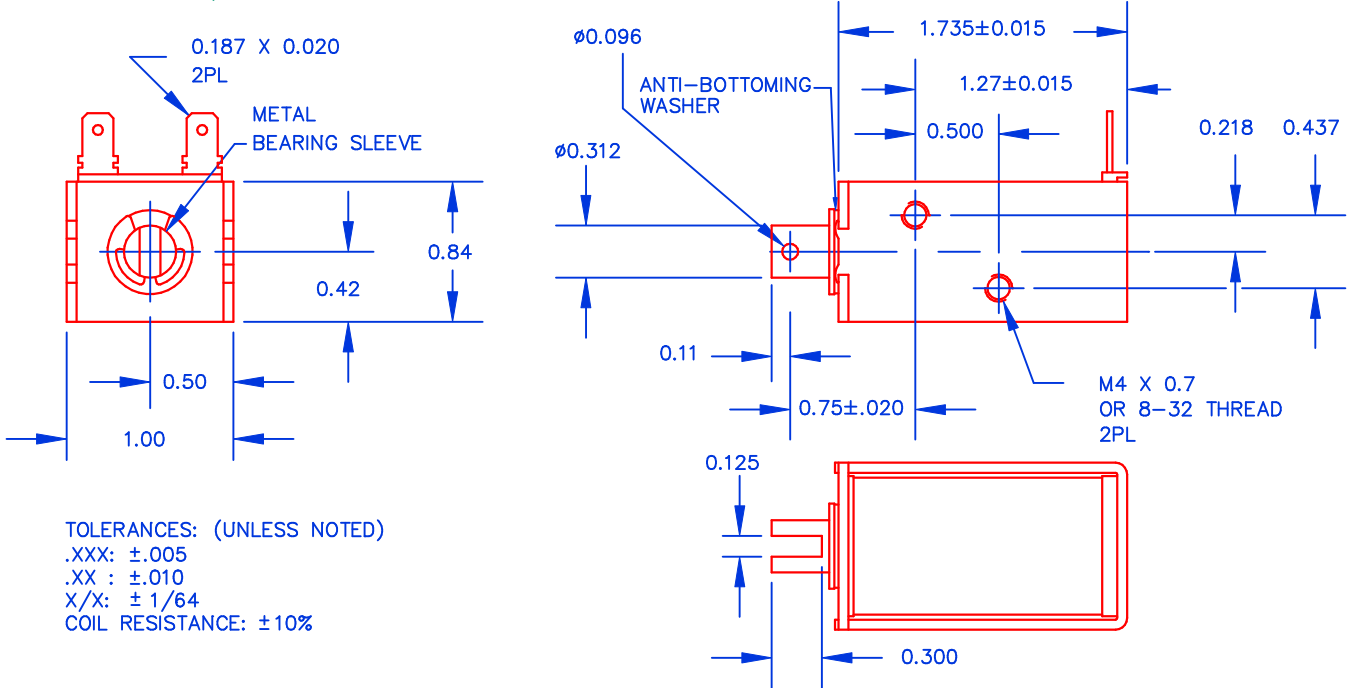
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.7	5.3	7.4	11.7
24	2.7	4.4	6.2	8.8	13.9
25	4.4	6.0	8.4	11.9	18.8
26	7.4	7.5	10.6	14.9	23.6
27	11.0	8.8	12.5	17.6	27.9
28	18.7	11.7	16.6	23.4	37.0
29	30.3	15.0	21.2	30.0	47.5
30	46.1	18.2	25.7	36.4	57.6
31	76.9	23.9	33.8	47.9	75.7
32	117	30.1	42.6	60.3	95.3
33	185	36.5	51.5	72.9	115
34	286	46.9	66.3	93.9	148
35	477	61.0	86.2	122	193
36	705	73.9	104	148	234
37	1105	90.6	128	181	286
38	1643	111	157	223	352
39	2915	148	209	296	467
40	4610	186	263	372	588

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

S-18-100Q

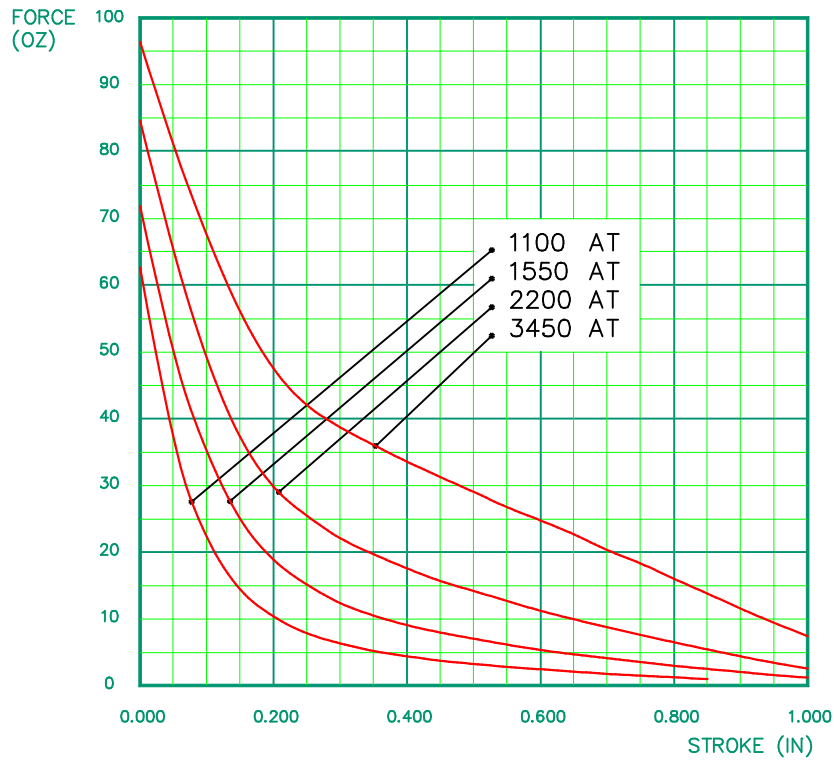
MECHANICAL DIMENSIONS



TOLERANCES: (UNLESS NOTED)
 .XXX: ±.005
 .XX : ±.010
 X/X: ± 1/64
 COIL RESISTANCE: ±10%

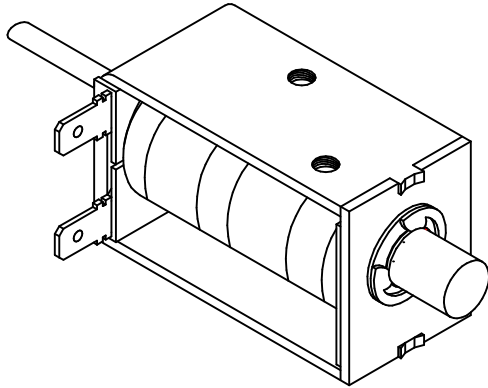
SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Push Type D-Frame Solenoid



Series S-18-100-QH
0.84" X 1.00" X 1.75"

TOTAL WEIGHT: 4.0 OUNCES

PLUNGER WEIGHT: 0.7 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	200	50	20
watts	7.5	15	30	75
approximate ampere turns	1100	1550	2200	3450

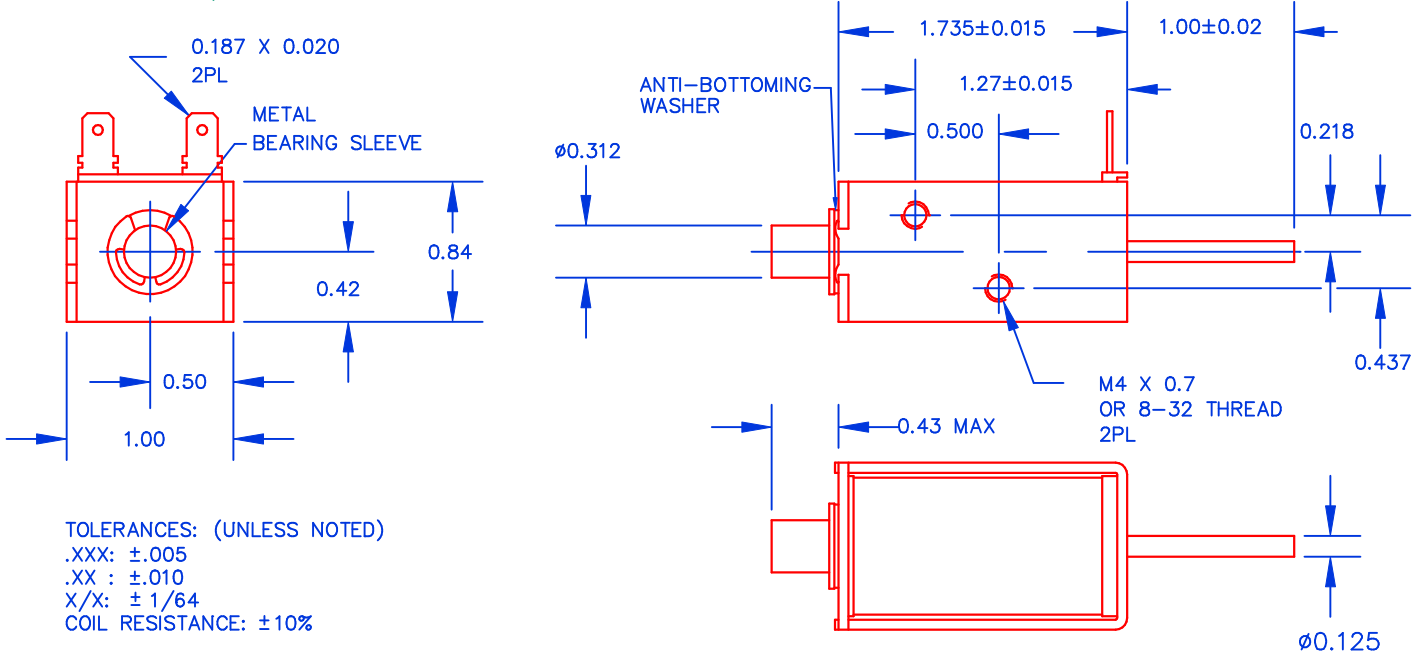
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
23	1.8	3.7	5.3	7.4	11.7
24	2.7	4.4	6.2	8.8	13.9
25	4.4	6.0	8.4	11.9	18.8
26	7.4	7.5	10.6	14.9	23.6
27	11.0	8.8	12.5	17.6	27.9
28	18.7	11.7	16.6	23.4	37.0
29	30.3	15.0	21.2	30.0	47.5
30	46.1	18.2	25.7	36.4	57.6
31	76.9	23.9	33.8	47.9	75.7
32	117	30.1	42.6	60.3	95.3
33	185	36.5	51.5	72.9	115
34	286	46.9	66.3	93.9	148
35	477	61.0	86.2	122	193
36	705	73.9	104	148	234
37	1105	90.6	128	181	286
38	1643	111	157	223	352
39	2915	148	209	296	467
40	4610	186	263	372	588

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

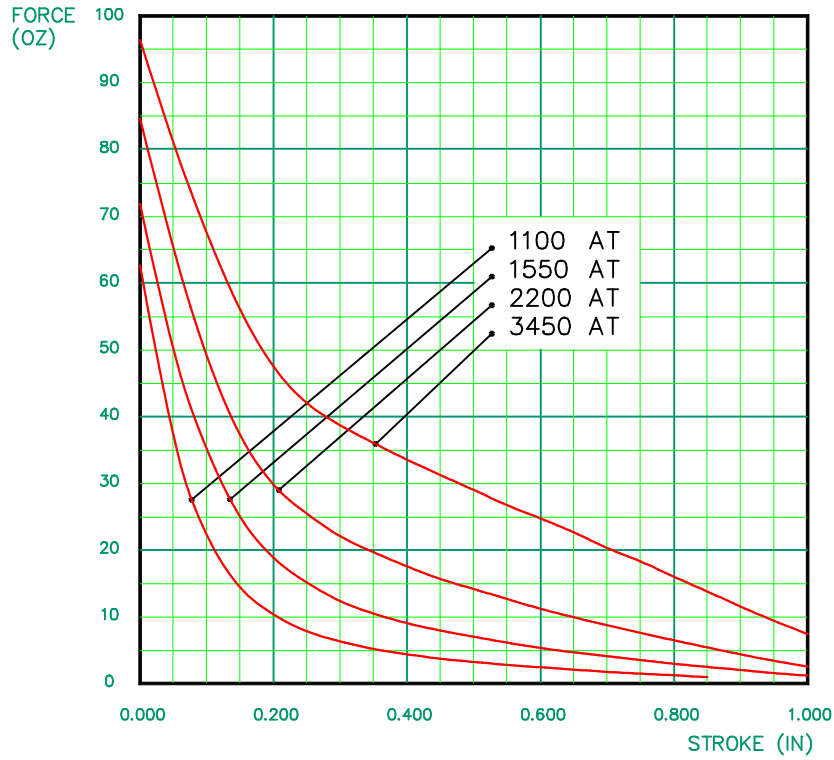
S-18-100QH

MECHANICAL DIMENSIONS



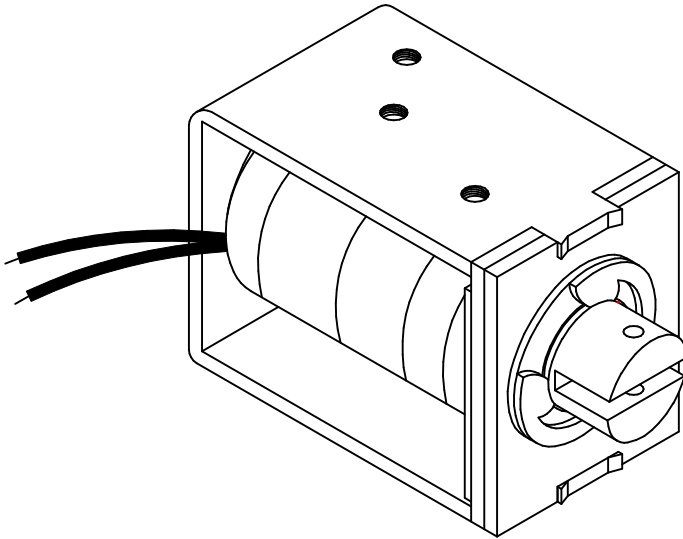
SOLENOID SHOWN ENERGIZED

TYPICAL PUSH FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Pull Type D-Frame Solenoid



Series S-20-150
1.18" X 1.50" X 2.03"

TOTAL WEIGHT: 11.1 OUNCES

PLUNGER WEIGHT: 2.1 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	200	100	30
watts	10	20	40	100
approximate ampere turns	1150	1650	2300	3700

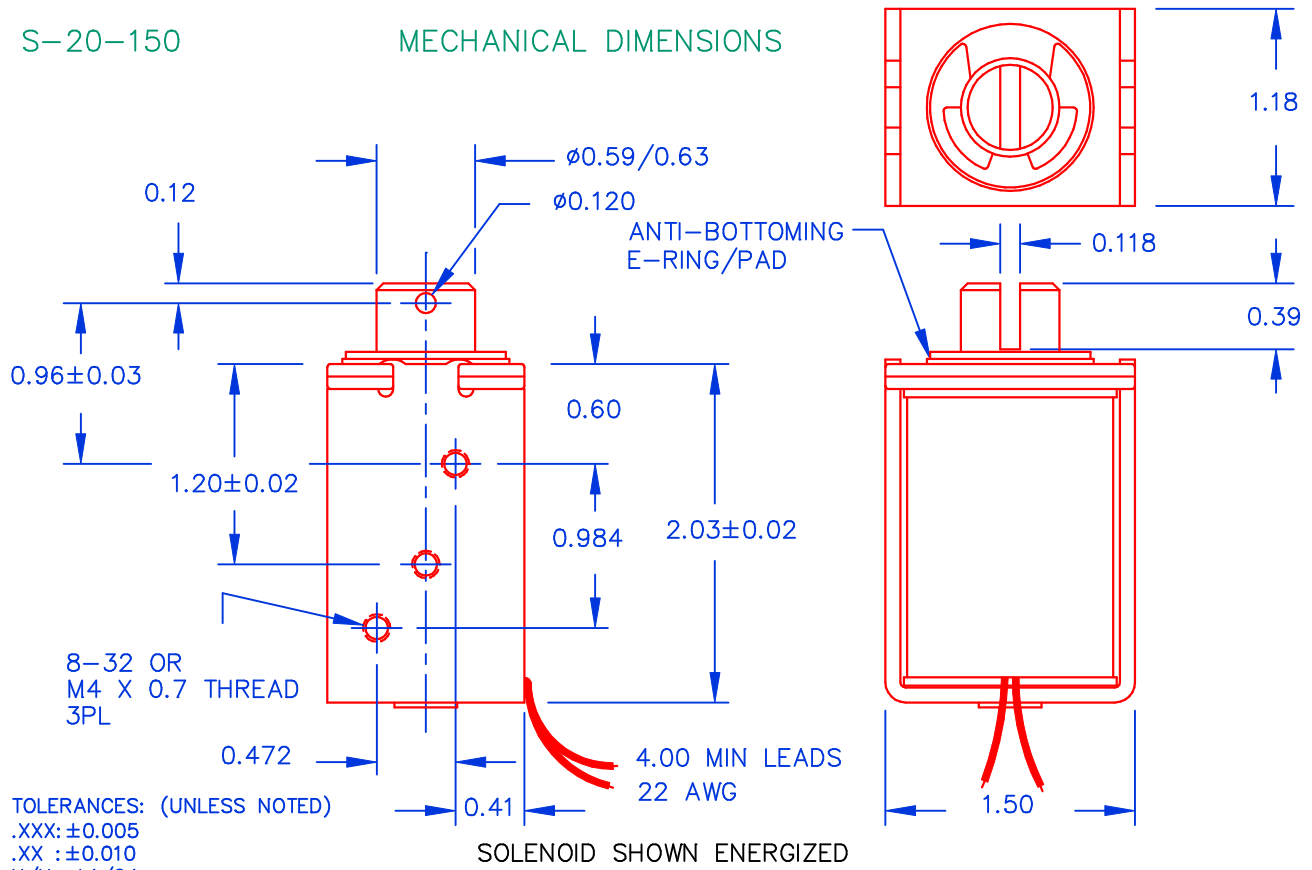
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
19	0.53	2.3	3.4	4.7	7.5
20	0.90	3.1	4.4	6.2	9.9
21	1.4	3.8	5.5	7.7	12.3
22	2.3	4.8	6.9	9.6	15.4
23	4.0	6.0	8.6	11.9	19.2
24	6.1	7.6	10.9	15.3	24.5
25	9.1	9.3	13.3	18.5	29.8
26	14.7	12.0	17.2	24.0	38.6
27	23.3	14.2	20.4	28.4	45.8
28	40.4	19.6	28.1	39.1	62.9
29	56.7	23.5	33.7	46.9	75.5
30	93.4	29.9	42.9	59.8	96.3
31	154	38.6	55.4	77.2	124
32	221	46.8	67.2	93.6	151
33	460	67.6	97.0	135	217
34	553	75.9	109	152	244
35	893	96.3	138	193	310
36	1373	121	173	241	388

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

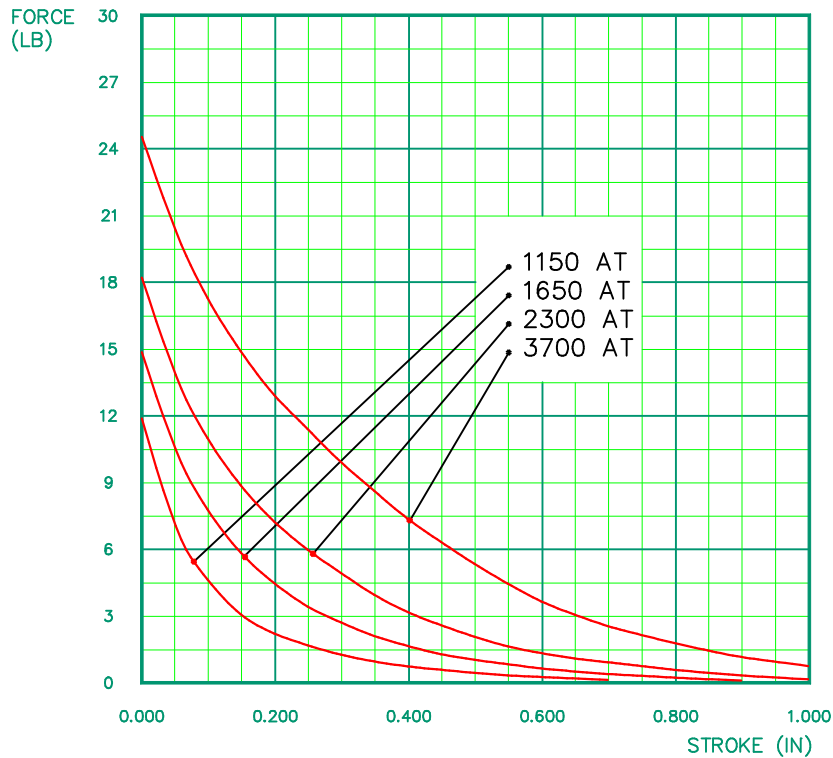
MAGNETIC SENSOR SYSTEMS

S-20-150

MECHANICAL DIMENSIONS

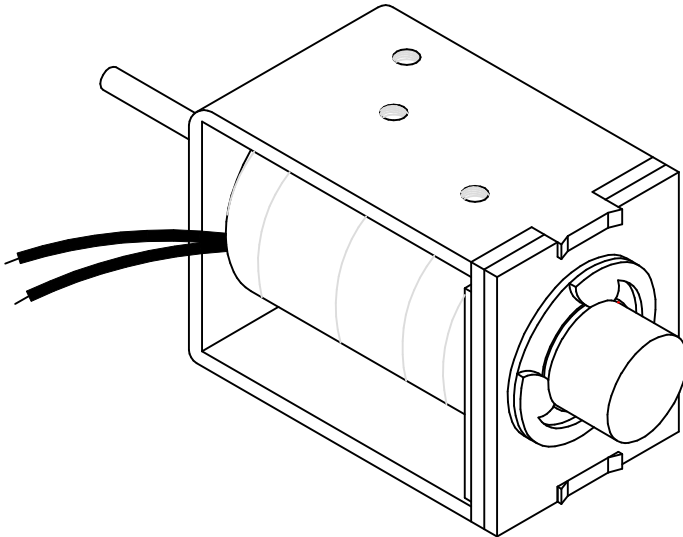


TYPICAL PULL FORCE VERSUS STROKE



MAGNETIC SENSOR SYSTEMS

Push Type D-Frame Solenoid



Series S-20-150-H
1.18" X 1.50" X 2.03"

TOTAL WEIGHT: 11.9 OUNCES

PLUNGER WEIGHT: 2.9 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	200	100	30
watts	10	20	40	100
approximate ampere turns	1150	1650	2300	3700

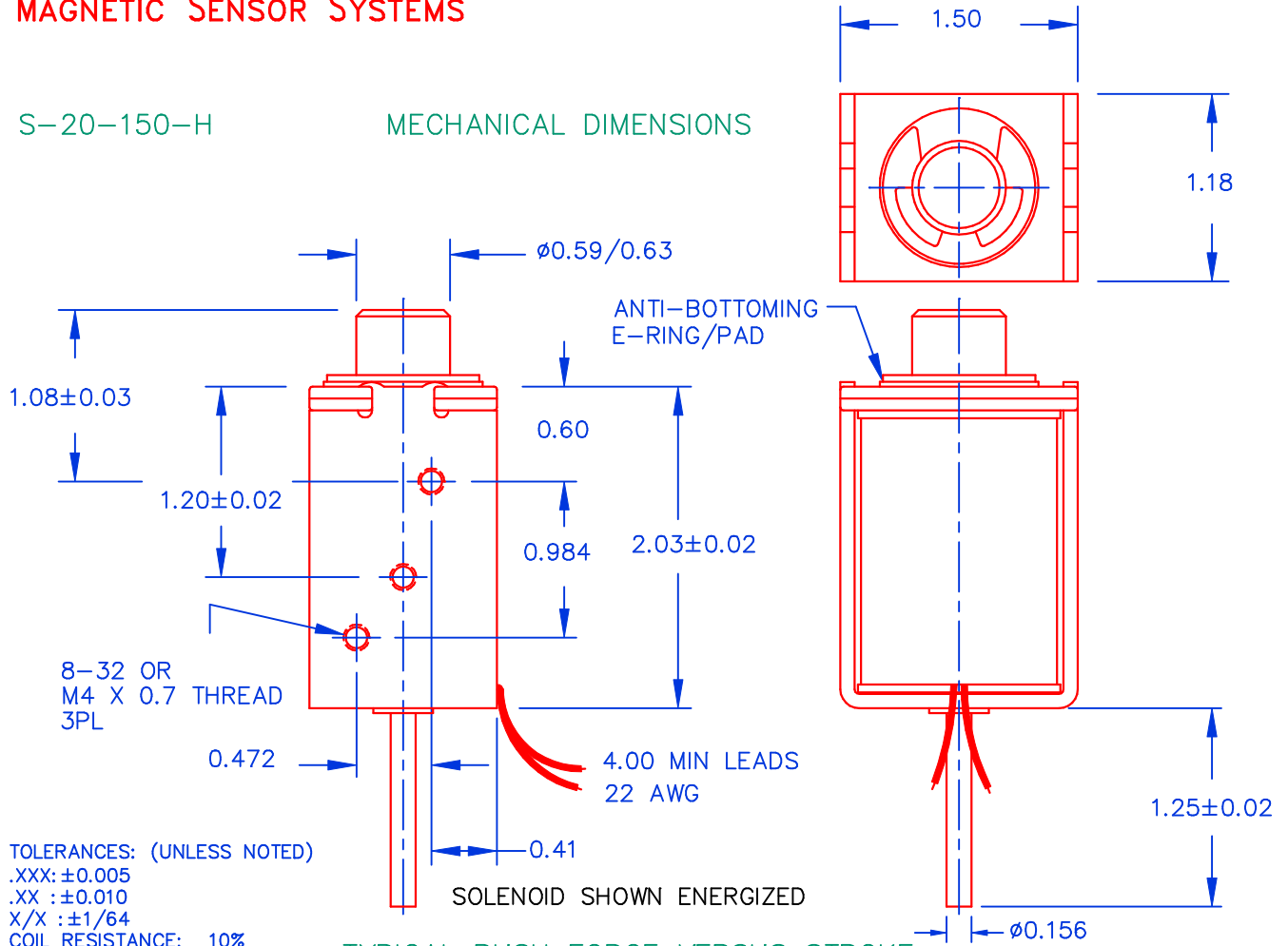
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
19	0.53	2.3	3.4	4.7	7.5
20	0.90	3.1	4.4	6.2	9.9
21	1.4	3.8	5.5	7.7	12.3
22	2.3	4.8	6.9	9.6	15.4
23	4.0	6.0	8.6	11.9	19.2
24	6.1	7.6	10.9	15.3	24.5
25	9.1	9.3	13.3	18.5	29.8
26	14.7	12.0	17.2	24.0	38.6
27	23.3	14.2	20.4	28.4	45.8
28	40.4	19.6	28.1	39.1	62.9
29	56.7	23.5	33.7	46.9	75.5
30	93.4	29.9	42.9	59.8	96.3
31	154	38.6	55.4	77.2	124
32	221	46.8	67.2	93.6	151
33	460	67.6	97.0	135	217
34	553	75.9	109	152	244
35	893	96.3	138	193	310
36	1373	121	173	241	388

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 4.0" x 4.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

S-20-150-H

MECHANICAL DIMENSIONS



TYPICAL PUSH FORCE VERSUS STROKE

