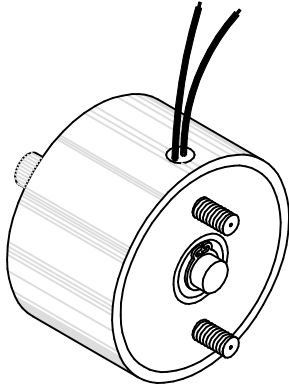


MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Forward Shaft Extension



Series R-09-150-CCWM
1 1/2" DIA X 0.87"

TOTAL WEIGHT: 5.0 OUNCES

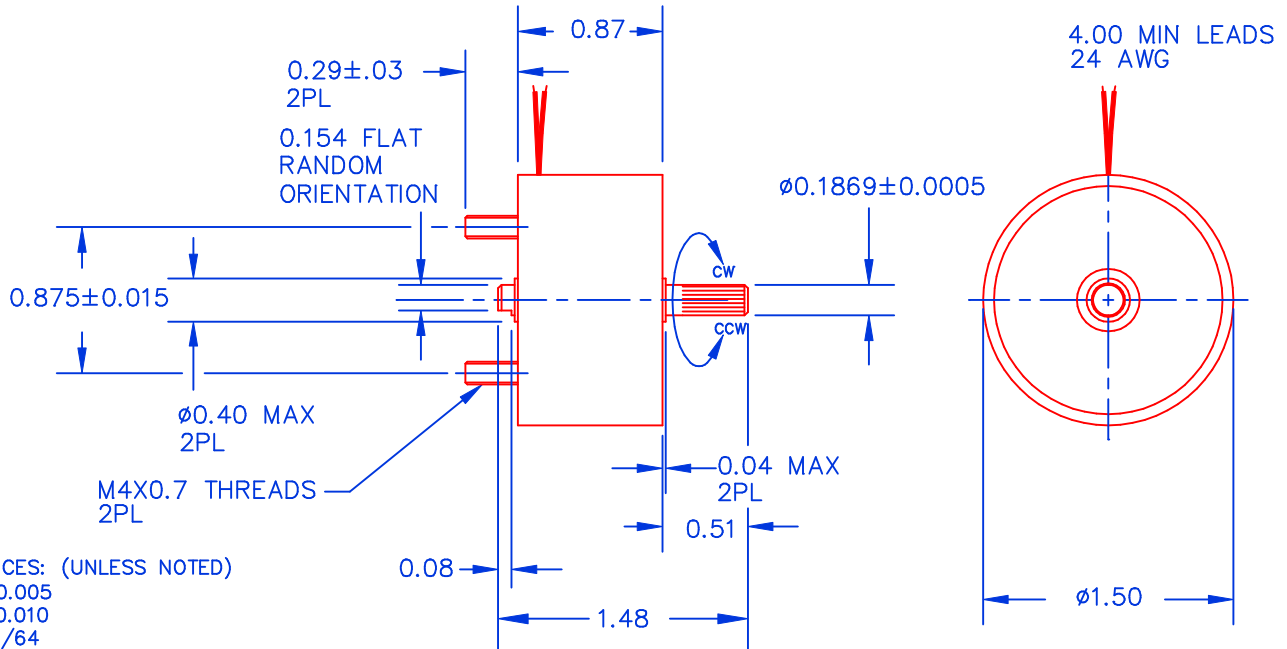
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	300	60	12
watts	9	18	36	90
approximate ampere turns	370	520	730	1160

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.15	1.1	1.6	2.3	3.6
21	0.19	1.3	1.9	2.6	4.2
22	0.41	1.9	2.7	3.8	5.9
23	0.54	2.3	3.2	4.5	7.2
24	1.0	3.1	4.4	6.2	9.8
25	1.7	4.0	5.6	7.9	12.6
26	2.4	4.7	6.7	9.4	14.9
27	4.4	6.3	8.9	12.6	19.9
28	6.8	8.0	11.4	16.1	25.4
29	11.5	10.0	14.1	19.9	31.5
30	20.2	12.9	18.2	25.7	40.7
31	27.0	15.9	22.5	31.8	50.2
32	44.0	19.5	27.6	39.0	61.8
33	71.0	25.0	35.4	50.0	79.1
34	117	32.4	45.9	64.9	103
35	188	41.7	59.0	83.4	132
36	295	51.4	72.8	103	163
37	437	60.8	86.1	122	192

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

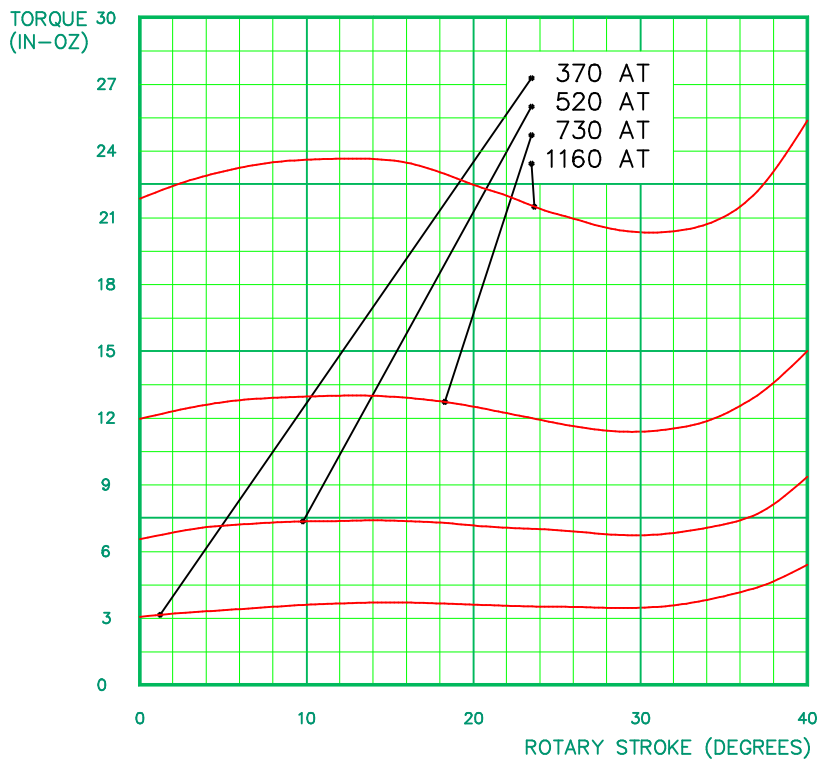
MAGNETIC SENSOR SYSTEMS

R-09-150-CCWM MECHANICAL DIMENSIONS
 COUNTER-CLOCKWISE – FORWARD SHAFT EXTENSION



TOLERANCES: (UNLESS NOTED)
 .XXX: ±0.005
 .XX : ±0.010
 X/X: ±1/64
 COIL RESISTANCE: ±10%

TYPICAL TORQUE VERSUS ROTARY STROKE



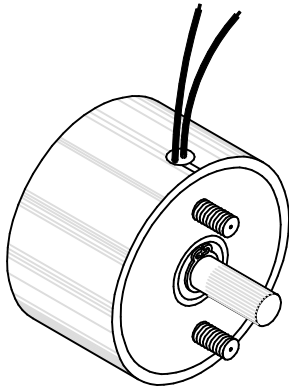
These torque curves do not account for return springs.

The typical return spring torque is 2.2 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Reverse Shaft Extension



Series R-09-150-CCWN
1 1/2" DIA X 0.87"

TOTAL WEIGHT: 5.0 OUNCES

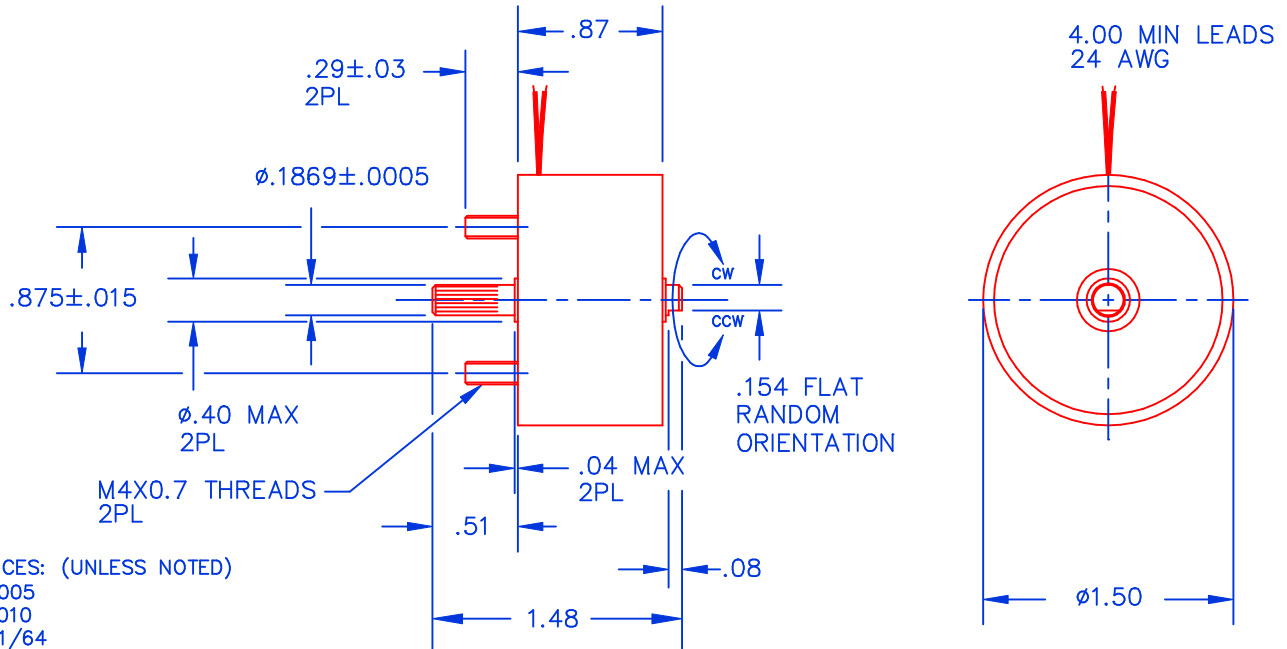
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	300	60	12
watts	9	18	36	90
approximate ampere turns	370	520	730	1160

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.15	1.1	1.6	2.3	3.6
21	0.19	1.3	1.9	2.6	4.2
22	0.41	1.9	2.7	3.8	5.9
23	0.54	2.3	3.2	4.5	7.2
24	1.0	3.1	4.4	6.2	9.8
25	1.7	4.0	5.6	7.9	12.6
26	2.4	4.7	6.7	9.4	14.9
27	4.4	6.3	8.9	12.6	19.9
28	6.8	8.0	11.4	16.1	25.4
29	11.5	10.0	14.1	19.9	31.5
30	20.2	12.9	18.2	25.7	40.7
31	27.0	15.9	22.5	31.8	50.2
32	44.0	19.5	27.6	39.0	61.8
33	71.0	25.0	35.4	50.0	79.1
34	117	32.4	45.9	64.9	103
35	188	41.7	59.0	83.4	132
36	295	51.4	72.8	103	163
37	437	60.8	86.1	122	192

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

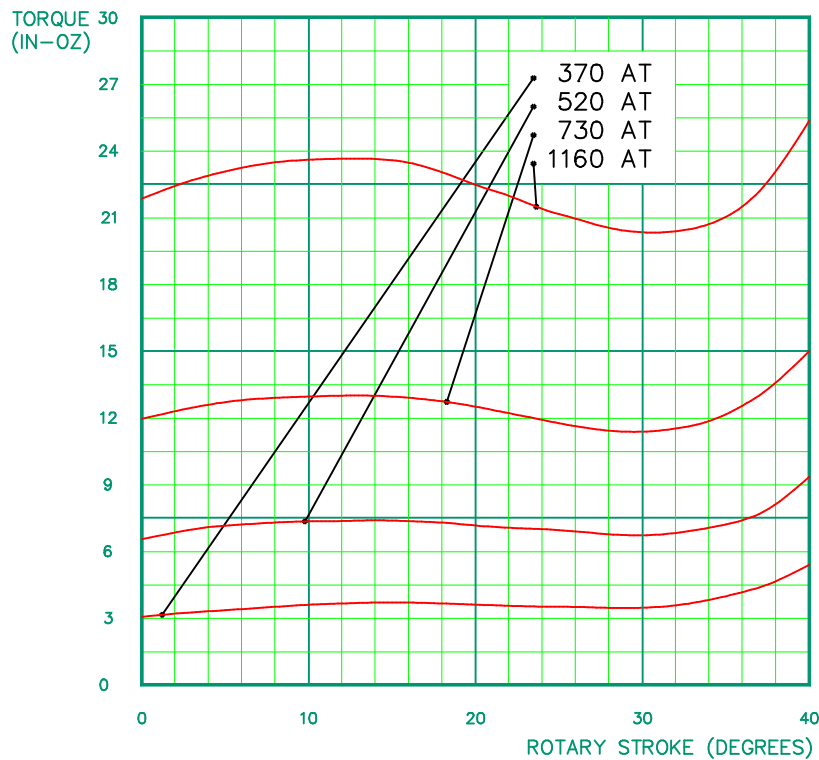
MAGNETIC SENSOR SYSTEMS

R-09-150-CCWN MECHANICAL DIMENSIONS
 COUNTER-CLOCKWISE – REVERSE SHAFT EXTENSION



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

TYPICAL TORQUE VERSUS ROTARY STROKE



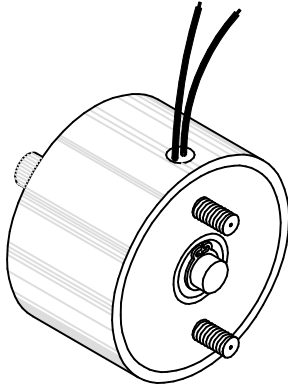
These torque curves do not account for return springs.

The typical return spring torque is 2.2 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Forward Shaft Extension



Series R-09-150-CWM
1 1/2" DIA X 0.87"

TOTAL WEIGHT: 5.0 OUNCES

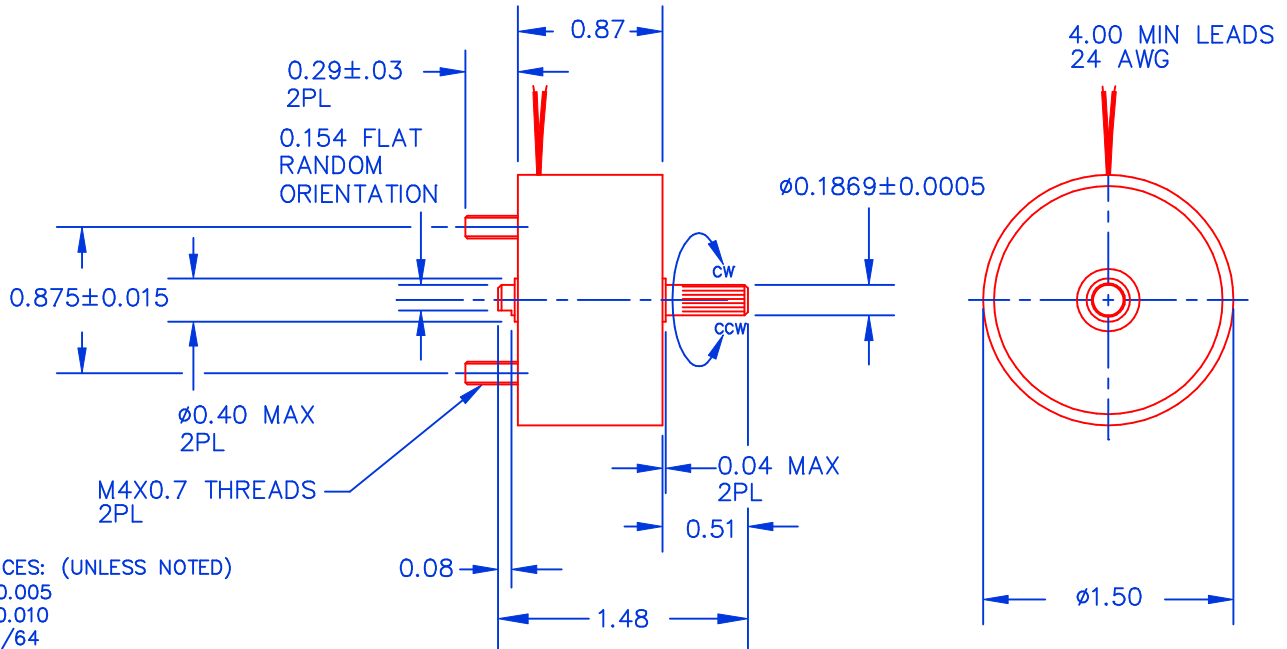
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	300	60	12
watts	9	18	36	90
approximate ampere turns	370	520	730	1160

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.15	1.1	1.6	2.3	3.6
21	0.19	1.3	1.9	2.6	4.2
22	0.41	1.9	2.7	3.8	5.9
23	0.54	2.3	3.2	4.5	7.2
24	1.0	3.1	4.4	6.2	9.8
25	1.7	4.0	5.6	7.9	12.6
26	2.4	4.7	6.7	9.4	14.9
27	4.4	6.3	8.9	12.6	19.9
28	6.8	8.0	11.4	16.1	25.4
29	11.5	10.0	14.1	19.9	31.5
30	20.2	12.9	18.2	25.7	40.7
31	27.0	15.9	22.5	31.8	50.2
32	44.0	19.5	27.6	39.0	61.8
33	71.0	25.0	35.4	50.0	79.1
34	117	32.4	45.9	64.9	103
35	188	41.7	59.0	83.4	132
36	295	51.4	72.8	103	163
37	437	60.8	86.1	122	192

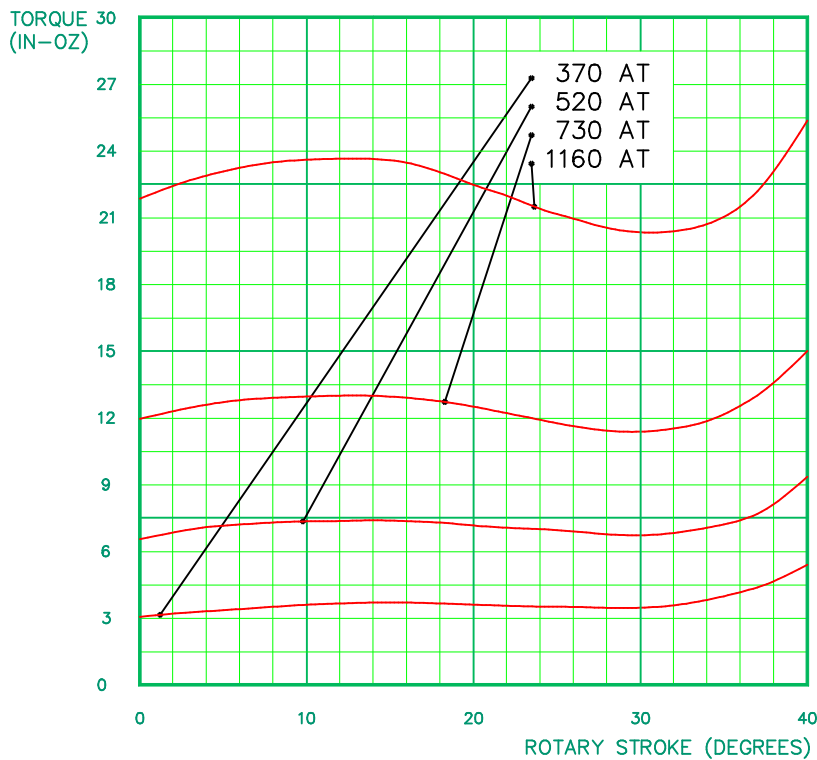
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-09-150-CWM MECHANICAL DIMENSIONS
 CLOCKWISE – FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



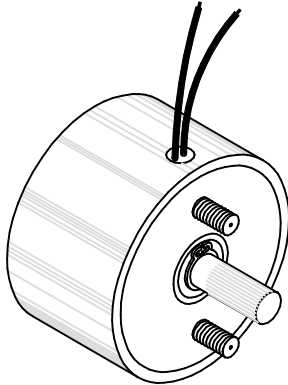
These torque curves do not account for return springs.

The typical return spring torque is 2.2 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Reverse Shaft Extension



Series R-09-150-CWN
1 1/2" DIA X 0.87"

TOTAL WEIGHT: 5.0 OUNCES

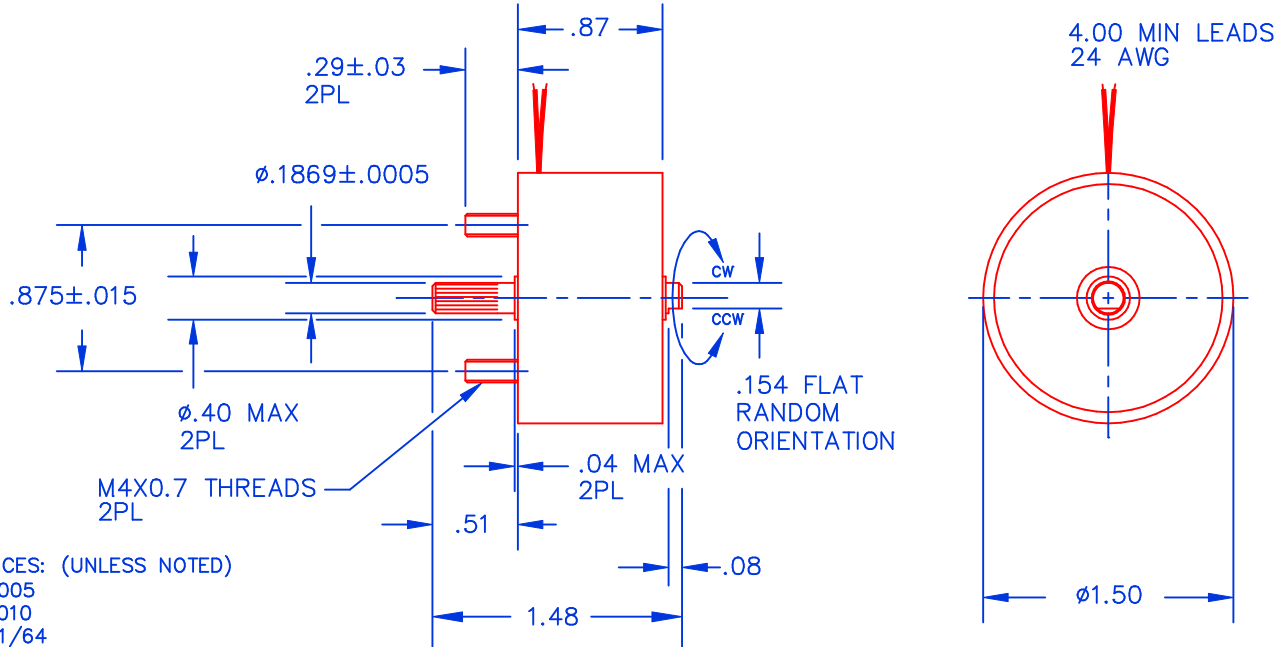
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	300	60	12
watts	9	18	36	90
approximate ampere turns	370	520	730	1160

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.15	1.1	1.6	2.3	3.6
21	0.19	1.3	1.9	2.6	4.2
22	0.41	1.9	2.7	3.8	5.9
23	0.54	2.3	3.2	4.5	7.2
24	1.0	3.1	4.4	6.2	9.8
25	1.7	4.0	5.6	7.9	12.6
26	2.4	4.7	6.7	9.4	14.9
27	4.4	6.3	8.9	12.6	19.9
28	6.8	8.0	11.4	16.1	25.4
29	11.5	10.0	14.1	19.9	31.5
30	20.2	12.9	18.2	25.7	40.7
31	27.0	15.9	22.5	31.8	50.2
32	44.0	19.5	27.6	39.0	61.8
33	71.0	25.0	35.4	50.0	79.1
34	117	32.4	45.9	64.9	103
35	188	41.7	59.0	83.4	132
36	295	51.4	72.8	103	163
37	437	60.8	86.1	122	192

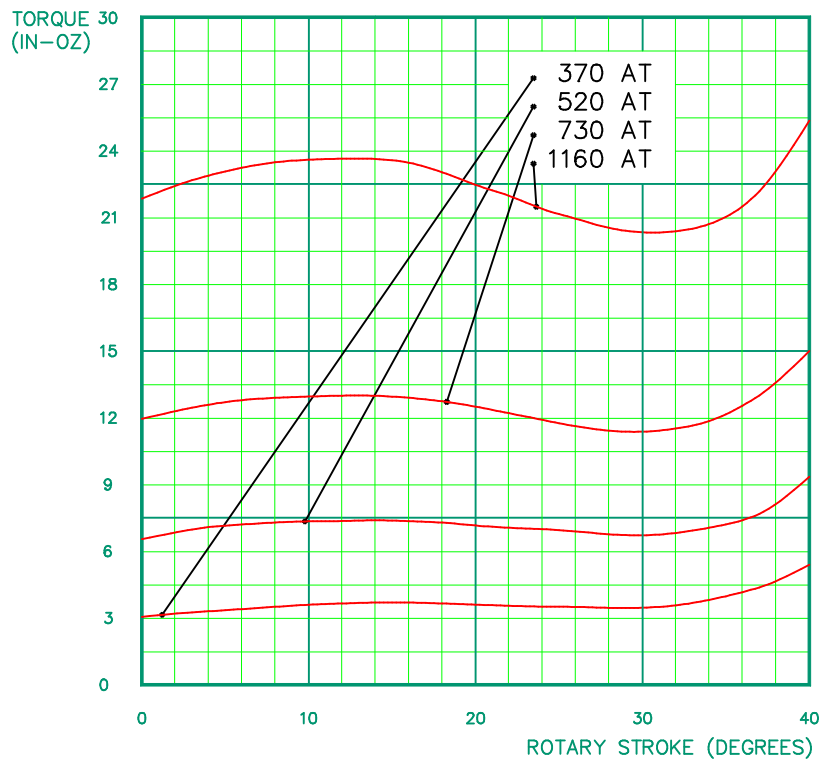
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-09-150-CWN MECHANICAL DIMENSIONS
 CLOCKWISE – REVERSE SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



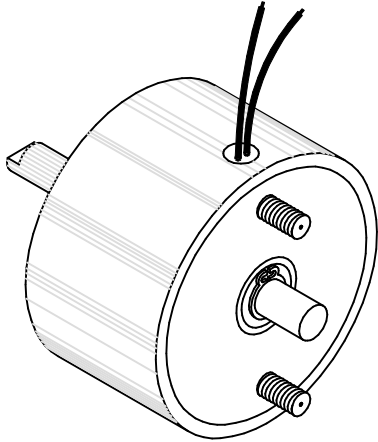
These torque curves do not account for return springs.

The typical return spring torque is 2.2 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Forward Shaft Extension



Series R-10-190-CCWM
1 7/8" DIA X 1.0"

TOTAL WEIGHT: 9.3 OUNCES

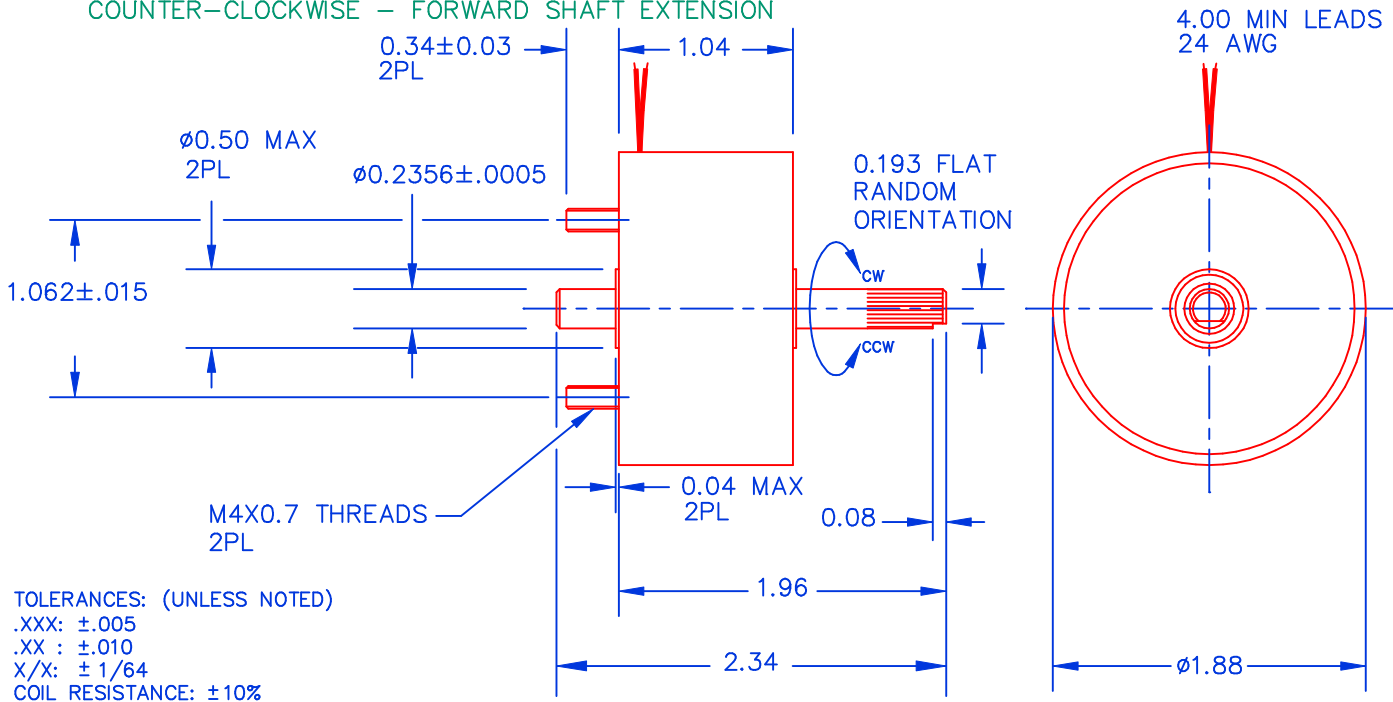
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	450	90	20
watts	10	20	40	100
approximate ampere turns	390	550	780	1240

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.25	1.7	2.3	3.3	5.3
21	0.47	2.1	3.0	4.2	6.6
22	0.67	2.6	3.7	5.3	8.4
23	1.2	3.6	5.2	7.3	11.5
24	1.9	4.2	6.0	8.5	13.5
25	2.7	5.4	7.7	10.8	17.2
26	5.2	7.0	9.9	14.0	22.1
27	7.5	8.8	12.5	17.7	28.0
28	13.1	11.1	15.7	22.2	35.1
29	18.4	13.8	19.5	27.5	43.6
30	32.4	17.6	24.9	35.2	55.8
31	50.0	22.0	31.1	44.0	69.6
32	80.0	27.2	38.5	54.5	86.2
33	130	35.1	49.7	70.2	111
34	172	42.3	59.9	84.7	134
35	285	53.3	75.5	107	169
36	422	66.0	93.5	132	209
37	741	83.3	118	167	264

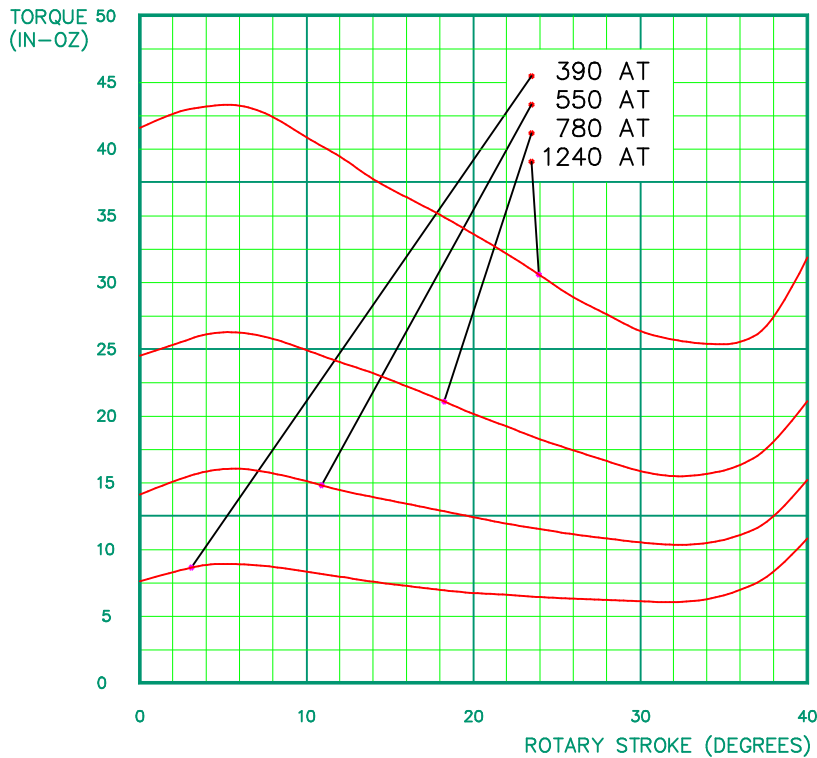
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-190-CCWM
COUNTER-CLOCKWISE - FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



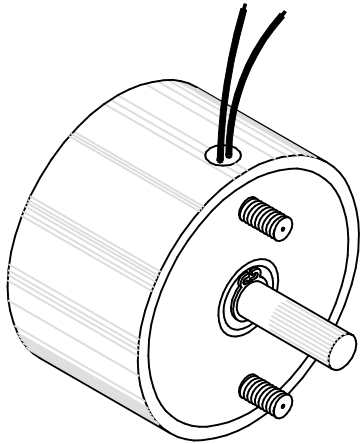
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Reverse Shaft Extension



Series R-10-190-CCWN
1 7/8" DIA X 1.0"

TOTAL WEIGHT: 9.3 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	450	90	20
watts	10	20	40	100
approximate ampere turns	390	550	780	1240

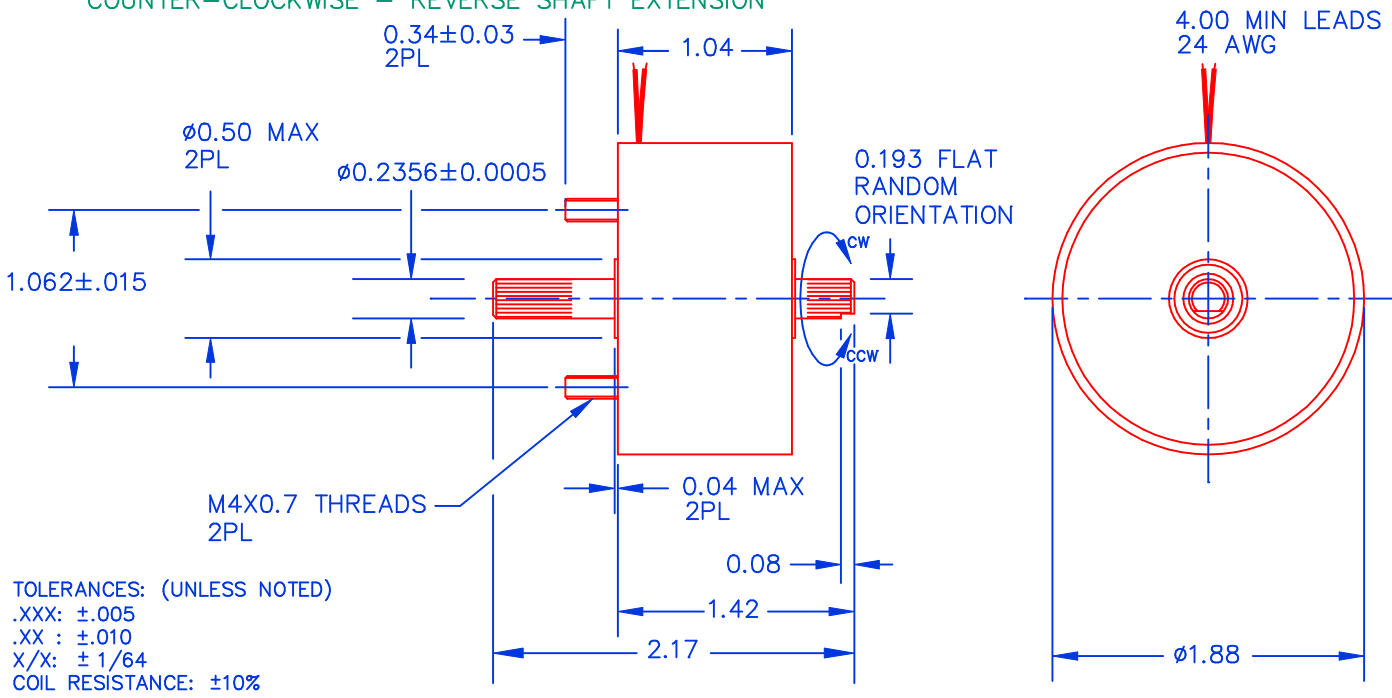
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.25	1.7	2.3	3.3	5.3
21	0.47	2.1	3.0	4.2	6.6
22	0.67	2.6	3.7	5.3	8.4
23	1.2	3.6	5.2	7.3	11.5
24	1.9	4.2	6.0	8.5	13.5
25	2.7	5.4	7.7	10.8	17.2
26	5.2	7.0	9.9	14.0	22.1
27	7.5	8.8	12.5	17.7	28.0
28	13.1	11.1	15.7	22.2	35.1
29	18.4	13.8	19.5	27.5	43.6
30	32.4	17.6	24.9	35.2	55.8
31	50.0	22.0	31.1	44.0	69.6
32	80.0	27.2	38.5	54.5	86.2
33	130	35.1	49.7	70.2	111
34	172	42.3	59.9	84.7	134
35	285	53.3	75.5	107	169
36	422	66.0	93.5	132	209
37	741	83.3	118	167	264

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

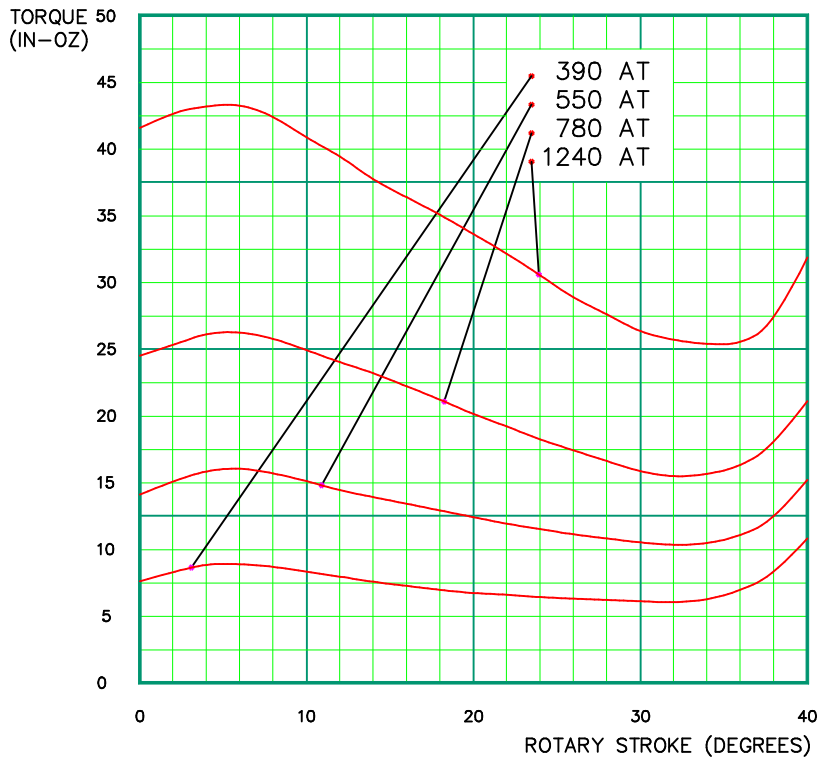
MAGNETIC SENSOR SYSTEMS

R-10-190-CCWN
COUNTER-CLOCKWISE - REVERSE SHAFT EXTENSION

MECHANICAL DIMENSIONS



TYPICAL TORQUE VERSUS ROTARY STROKE



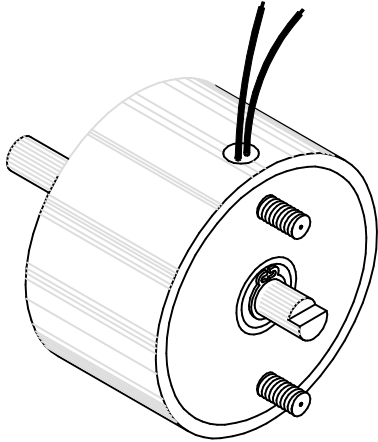
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Forward Shaft Extension



Series R-10-190-CWM
1 7/8" DIA X 1.0"

TOTAL WEIGHT: 9.3 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	450	90	20
watts	10	20	40	100
approximate ampere turns	390	550	780	1240

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.25	1.7	2.3	3.3	5.3
21	0.47	2.1	3.0	4.2	6.6
22	0.67	2.6	3.7	5.3	8.4
23	1.2	3.6	5.2	7.3	11.5
24	1.9	4.2	6.0	8.5	13.5
25	2.7	5.4	7.7	10.8	17.2
26	5.2	7.0	9.9	14.0	22.1
27	7.5	8.8	12.5	17.7	28.0
28	13.1	11.1	15.7	22.2	35.1
29	18.4	13.8	19.5	27.5	43.6
30	32.4	17.6	24.9	35.2	55.8
31	50.0	22.0	31.1	44.0	69.6
32	80.0	27.2	38.5	54.5	86.2
33	130	35.1	49.7	70.2	111
34	172	42.3	59.9	84.7	134
35	285	53.3	75.5	107	169
36	422	66.0	93.5	132	209
37	741	83.3	118	167	264

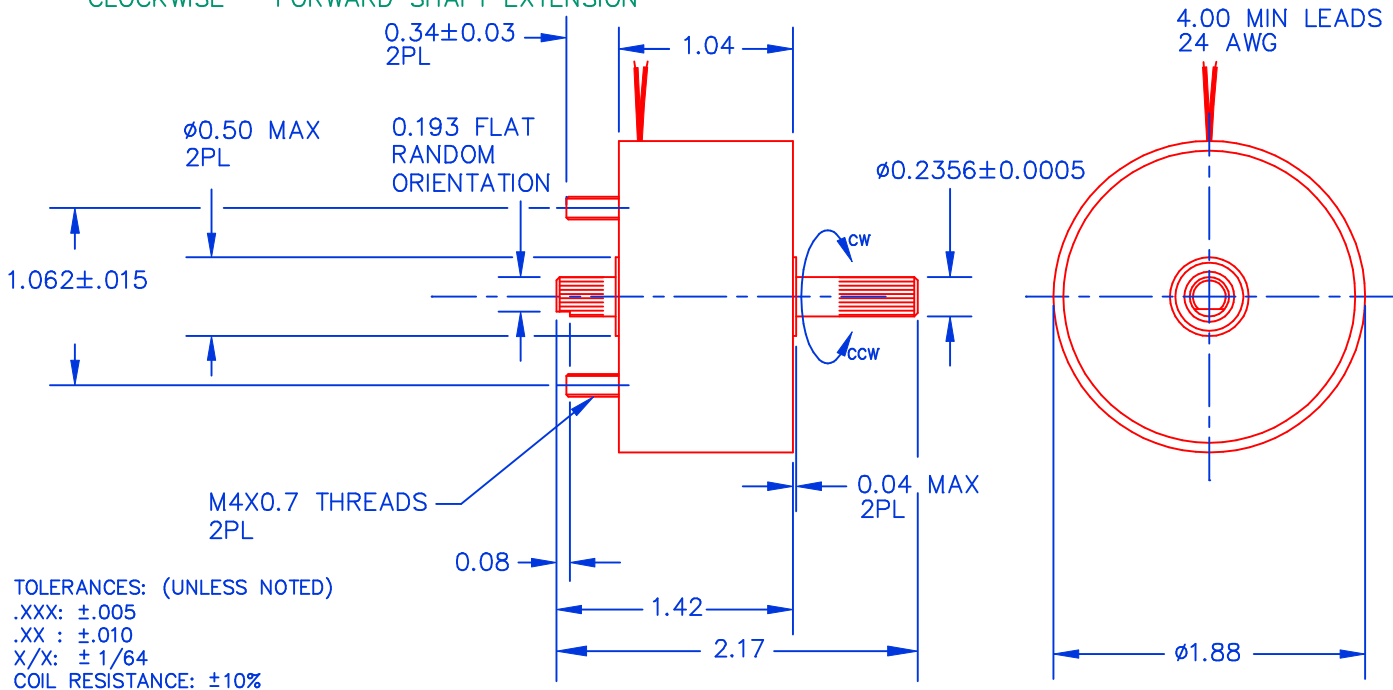
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

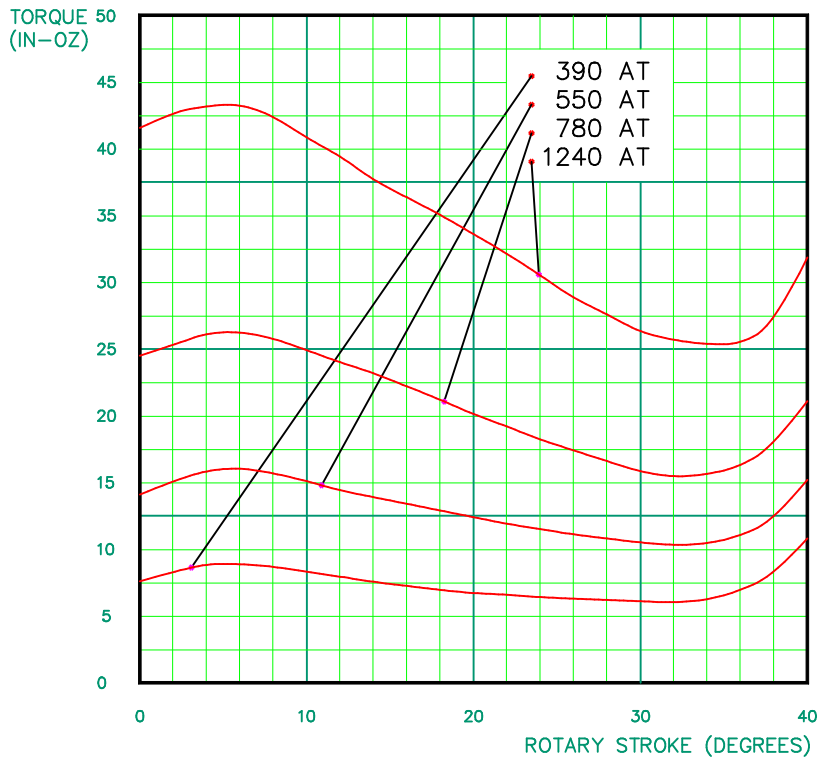
R-10-190-CWM

MECHANICAL DIMENSIONS

CLOCKWISE - FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



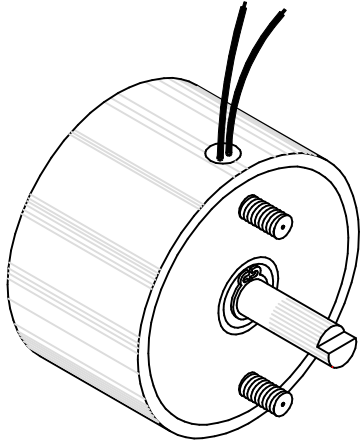
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Reverse Shaft Extension



Series R-10-190-CWN
1 7/8" DIA X 1.0"

TOTAL WEIGHT: 9.3 OUNCES

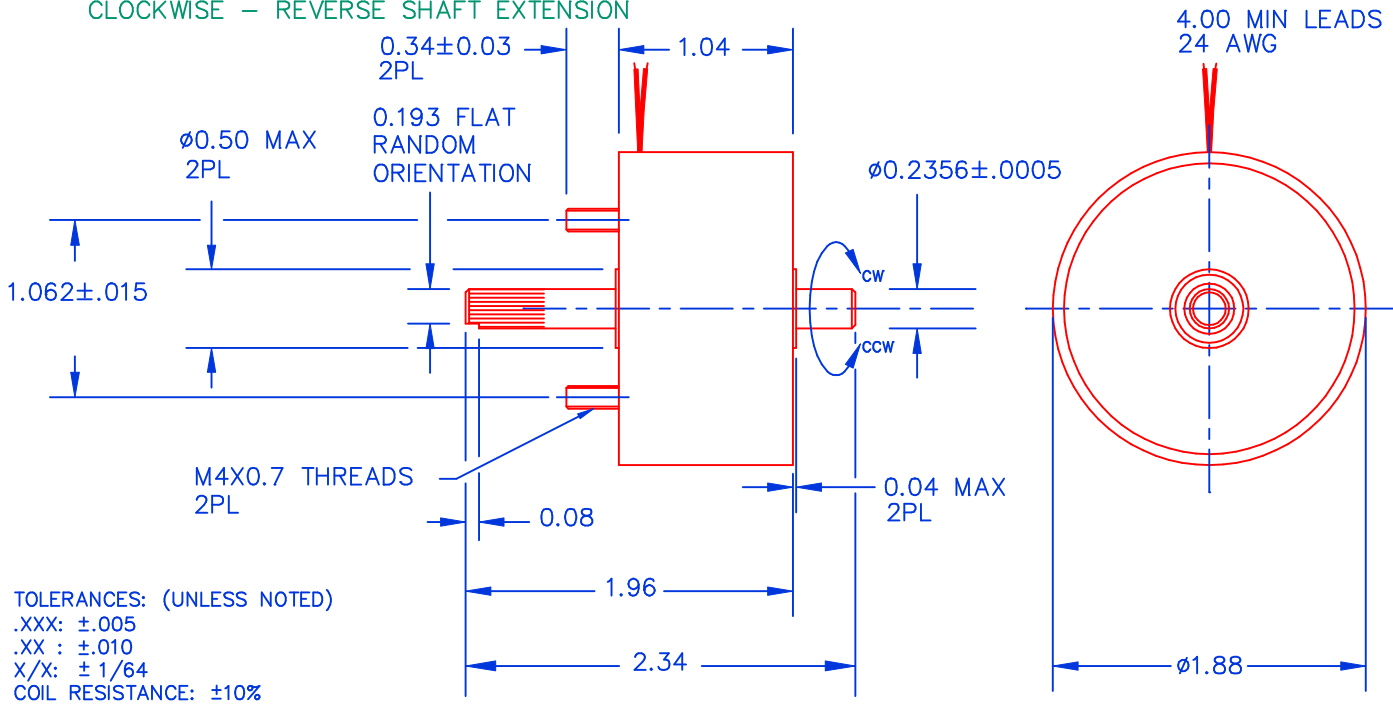
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	450	90	20
watts	10	20	40	100
approximate ampere turns	390	550	780	1240

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.25	1.7	2.3	3.3	5.3
21	0.47	2.1	3.0	4.2	6.6
22	0.67	2.6	3.7	5.3	8.4
23	1.2	3.6	5.2	7.3	11.5
24	1.9	4.2	6.0	8.5	13.5
25	2.7	5.4	7.7	10.8	17.2
26	5.2	7.0	9.9	14.0	22.1
27	7.5	8.8	12.5	17.7	28.0
28	13.1	11.1	15.7	22.2	35.1
29	18.4	13.8	19.5	27.5	43.6
30	32.4	17.6	24.9	35.2	55.8
31	50.0	22.0	31.1	44.0	69.6
32	80.0	27.2	38.5	54.5	86.2
33	130	35.1	49.7	70.2	111
34	172	42.3	59.9	84.7	134
35	285	53.3	75.5	107	169
36	422	66.0	93.5	132	209
37	741	83.3	118	167	264

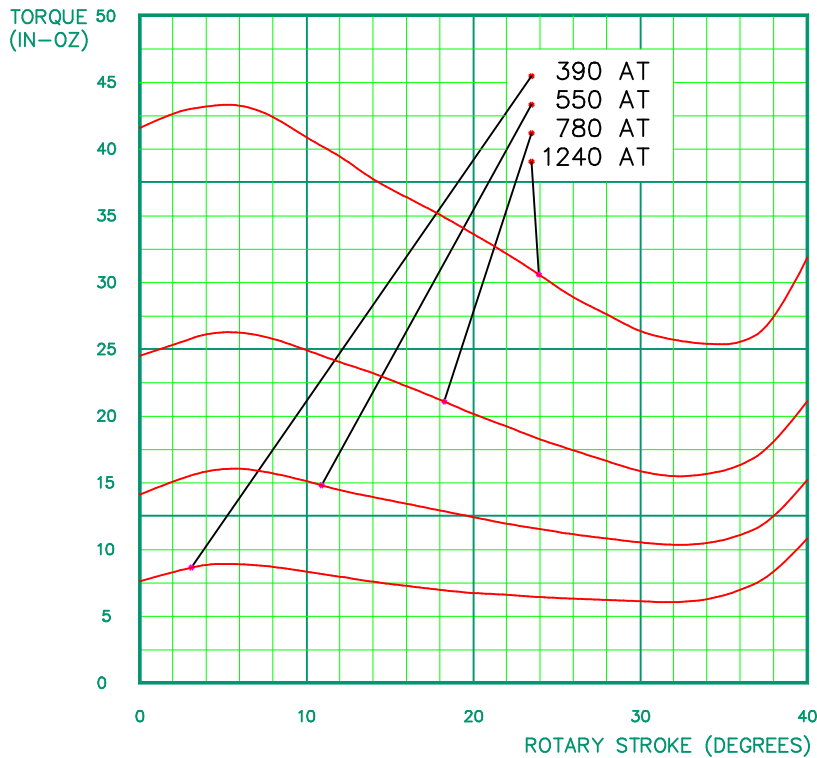
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-190-CWN MECHANICAL DIMENSIONS CLOCKWISE - REVERSE SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



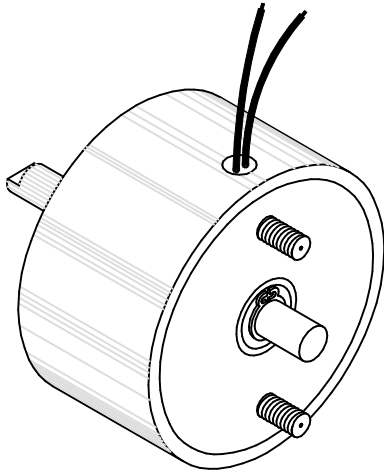
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Forward Shaft Extension



Series R-10-200-CCWM
2.0" DIA X 1.0"

TOTAL WEIGHT: 10.5 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	375	90	30
watts	11	22	44	110
approximate ampere turns	490	700	980	1560

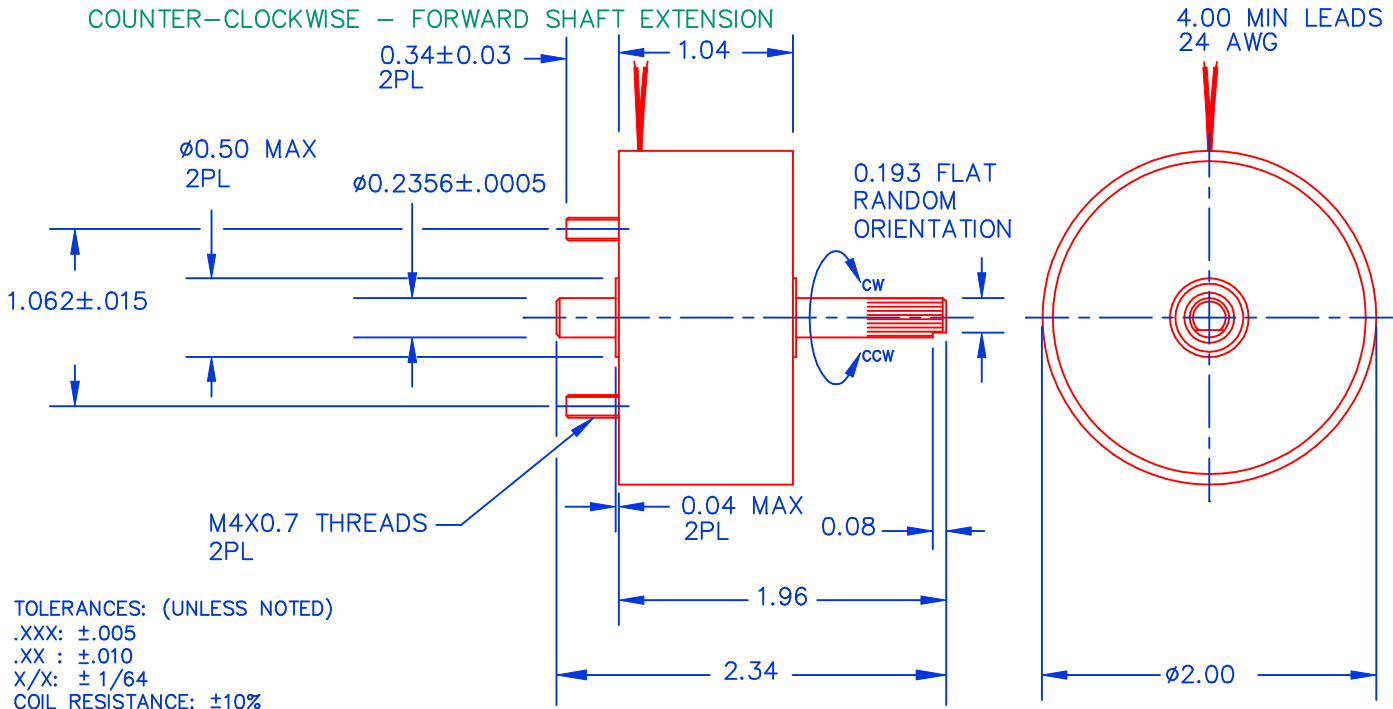
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.40	2.1	2.9	4.2	6.6
21	0.70	2.7	3.8	5.4	8.6
22	1.0	3.4	4.9	6.9	10.9
23	1.8	4.3	6.1	8.6	13.6
24	2.6	5.5	7.8	11.0	17.4
25	4.7	7.0	9.9	14.0	22.2
26	8.0	9.2	13.0	18.3	29.0
27	11.5	11.3	16.0	22.7	35.9
28	18.6	14.2	20.1	28.4	44.9
29	30.4	17.9	25.4	35.9	56.8
30	51.2	22.9	32.4	45.9	72.6
31	74.8	28.4	40.1	56.7	89.8
32	126	35.9	50.8	71.8	114
33	171	44.5	62.9	89.0	141
34	265	55.8	78.9	112	177
35	425	71.0	100	142	225
36	680	89.9	127	180	284
37	1110	109	155	219	346

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

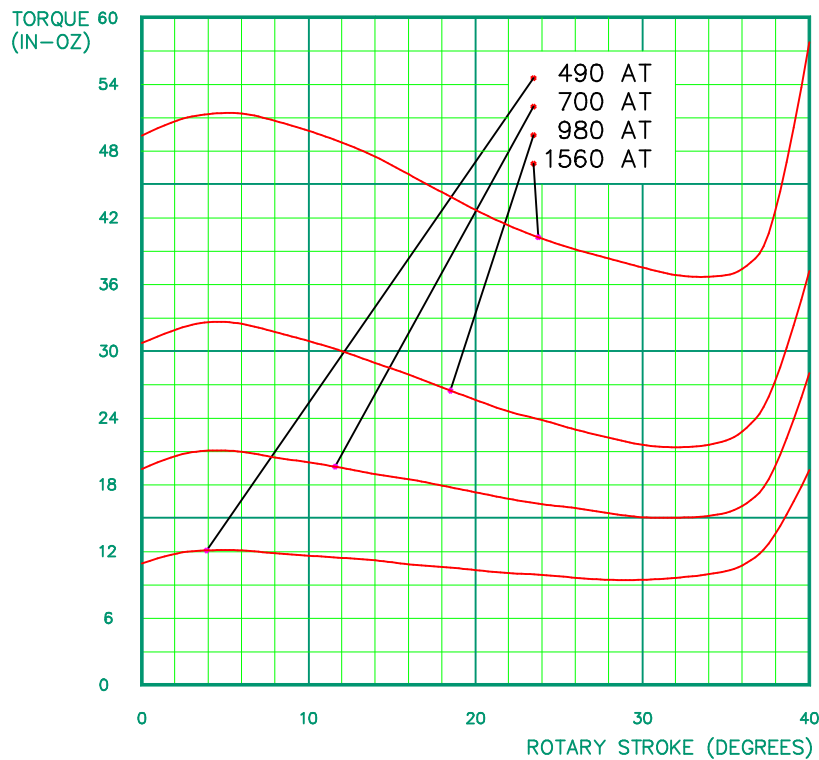
MAGNETIC SENSOR SYSTEMS

R-10-200-CCWM
COUNTER-CLOCKWISE - FORWARD SHAFT EXTENSION

MECHANICAL DIMENSIONS



TYPICAL TORQUE VERSUS ROTARY STROKE



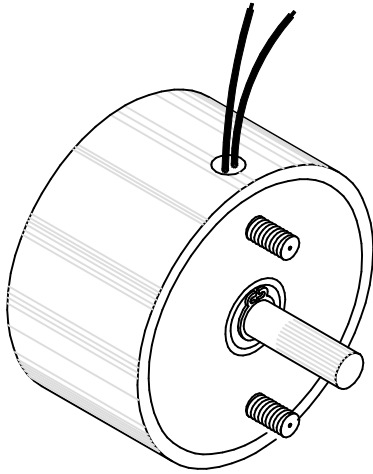
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Reverse Shaft Extension



Series R-10-200-CCWN
2.0" DIA X 1.0"

TOTAL WEIGHT: 10.5 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	375	90	30
watts	11	22	44	110
approximate ampere turns	490	700	980	1560

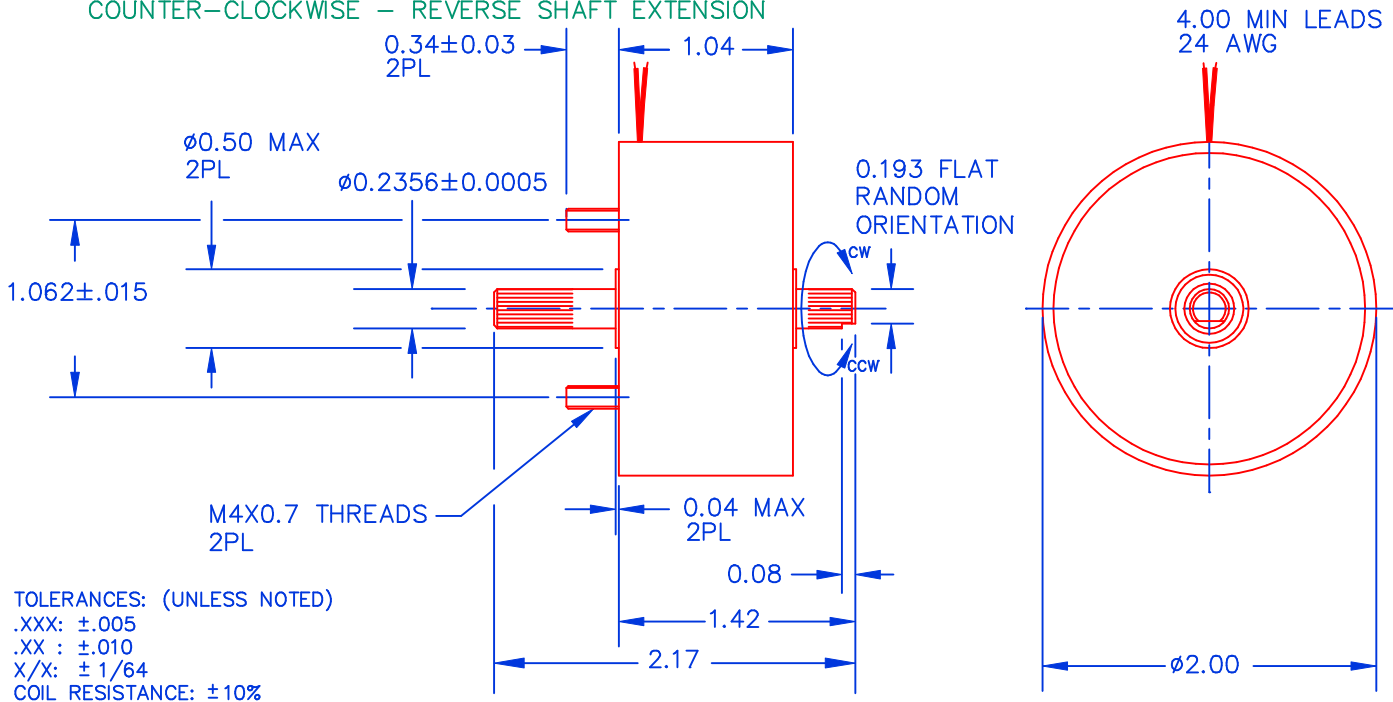
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.40	2.1	2.9	4.2	6.6
21	0.70	2.7	3.8	5.4	8.6
22	1.0	3.4	4.9	6.9	10.9
23	1.8	4.3	6.1	8.6	13.6
24	2.6	5.5	7.8	11.0	17.4
25	4.7	7.0	9.9	14.0	22.2
26	8.0	9.2	13.0	18.3	29.0
27	11.5	11.3	16.0	22.7	35.9
28	18.6	14.2	20.1	28.4	44.9
29	30.4	17.9	25.4	35.9	56.8
30	51.2	22.9	32.4	45.9	72.6
31	74.8	28.4	40.1	56.7	89.8
32	126	35.9	50.8	71.8	114
33	171	44.5	62.9	89.0	141
34	265	55.8	78.9	112	177
35	425	71.0	100	142	225
36	680	89.9	127	180	284
37	1110	109	155	219	346

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

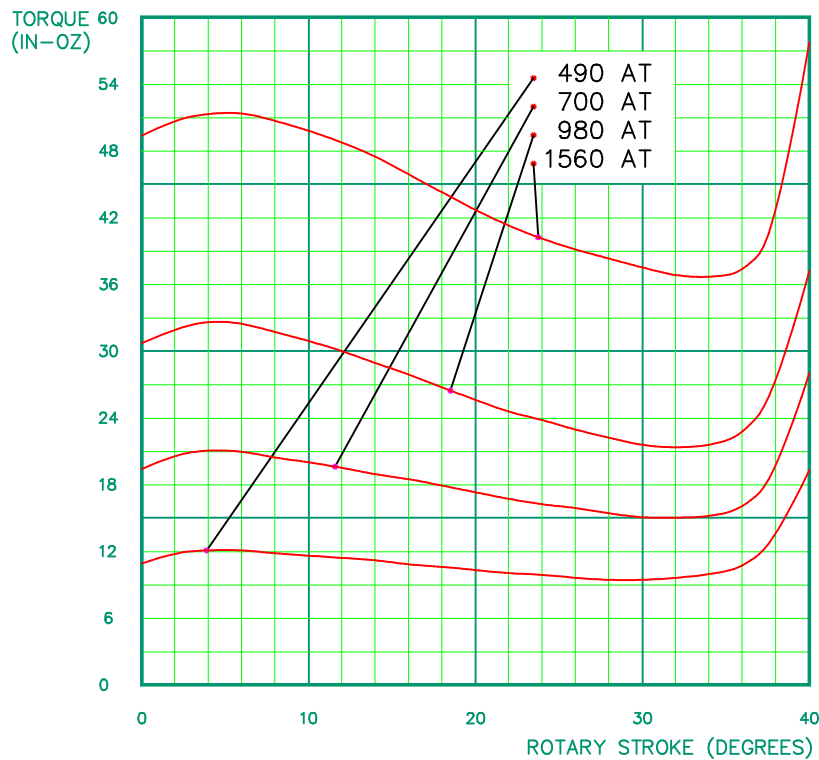
MAGNETIC SENSOR SYSTEMS

R-10-200-CCWN
COUNTER-CLOCKWISE - REVERSE SHAFT EXTENSION

MECHANICAL DIMENSIONS



TYPICAL TORQUE VERSUS ROTARY STROKE



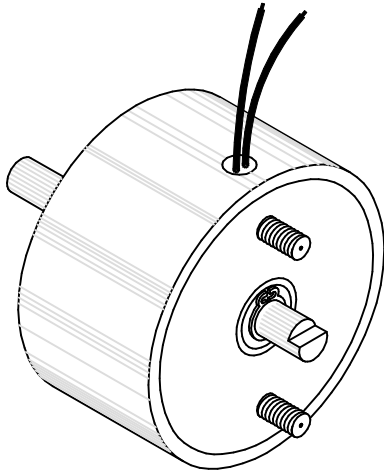
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Forward Shaft Extension



Series R-10-200-CWM
2.0" DIA X 1.0"

TOTAL WEIGHT: 10.5 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	375	90	30
watts	11	22	44	110
approximate ampere turns	490	700	980	1560

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.40	2.1	2.9	4.2	6.6
21	0.70	2.7	3.8	5.4	8.6
22	1.0	3.4	4.9	6.9	10.9
23	1.8	4.3	6.1	8.6	13.6
24	2.6	5.5	7.8	11.0	17.4
25	4.7	7.0	9.9	14.0	22.2
26	8.0	9.2	13.0	18.3	29.0
27	11.5	11.3	16.0	22.7	35.9
28	18.6	14.2	20.1	28.4	44.9
29	30.4	17.9	25.4	35.9	56.8
30	51.2	22.9	32.4	45.9	72.6
31	74.8	28.4	40.1	56.7	89.8
32	126	35.9	50.8	71.8	114
33	171	44.5	62.9	89.0	141
34	265	55.8	78.9	112	177
35	425	71.0	100	142	225
36	680	89.9	127	180	284
37	1110	109	155	219	346

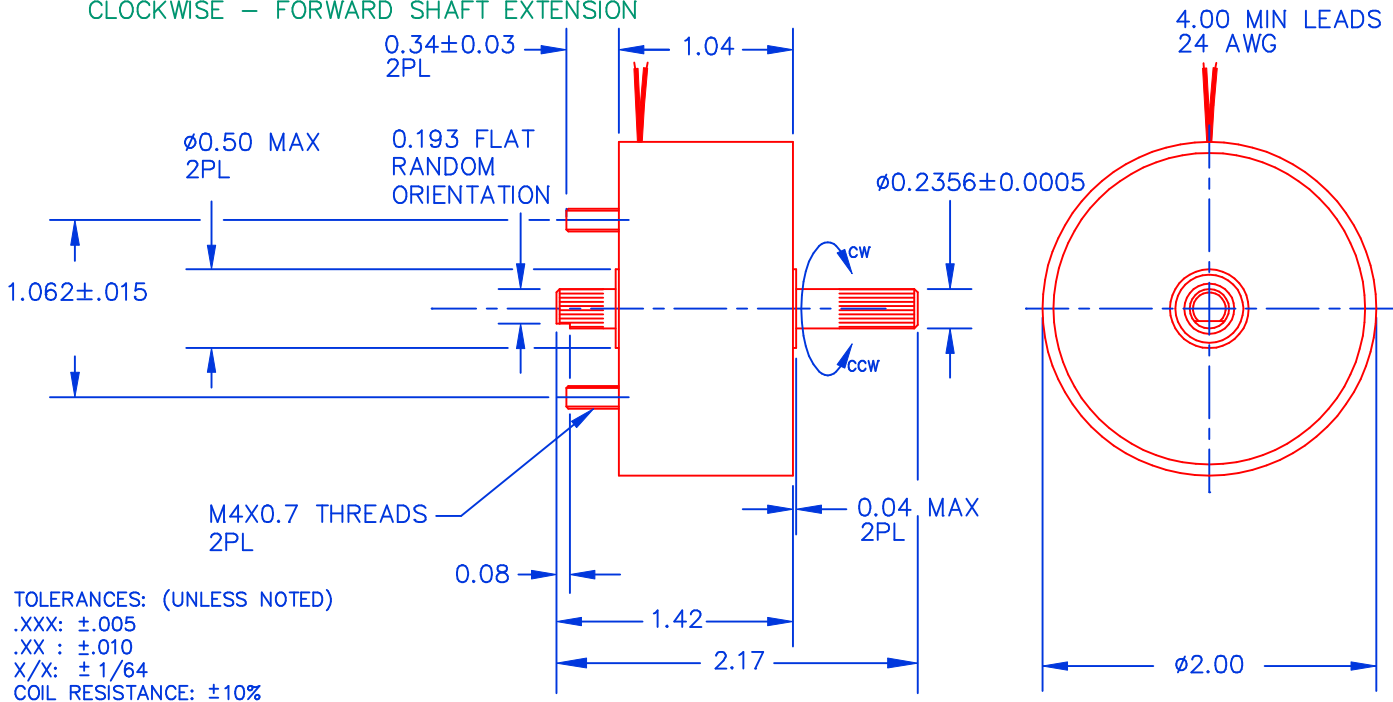
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

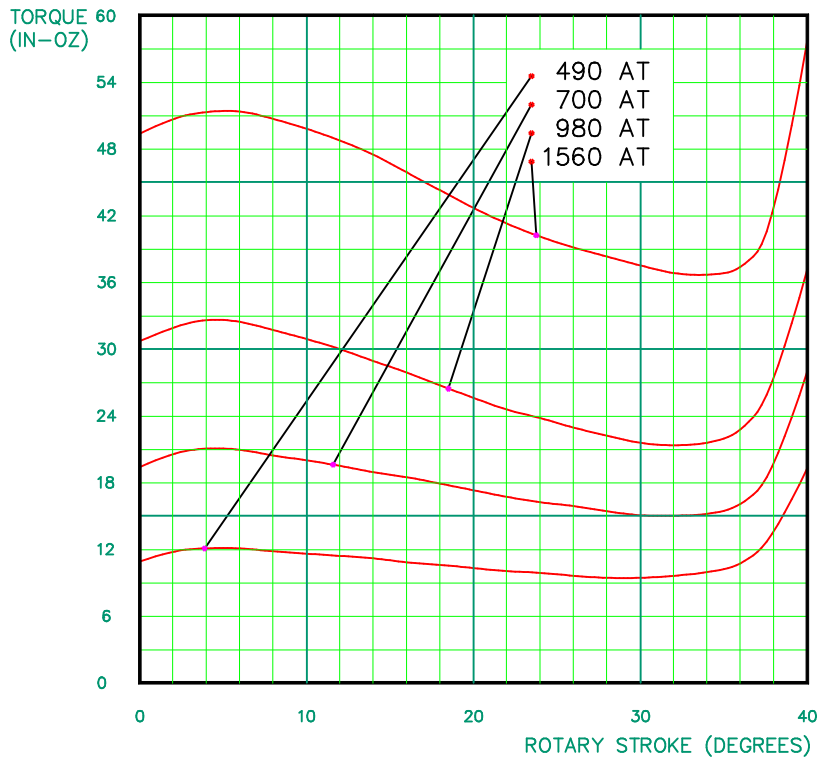
R-10-200-CWM

MECHANICAL DIMENSIONS

CLOCKWISE - FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



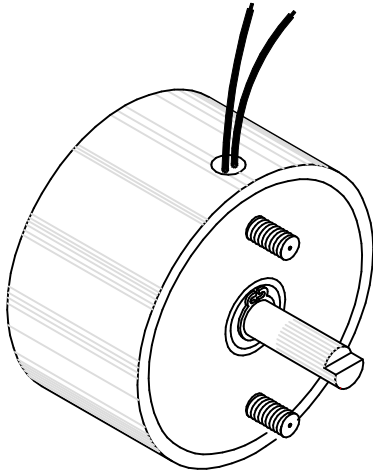
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Reverse Shaft Extension



Series R-10-200-CWN
2.0" DIA X 1.0"

TOTAL WEIGHT: 10.5 OUNCES

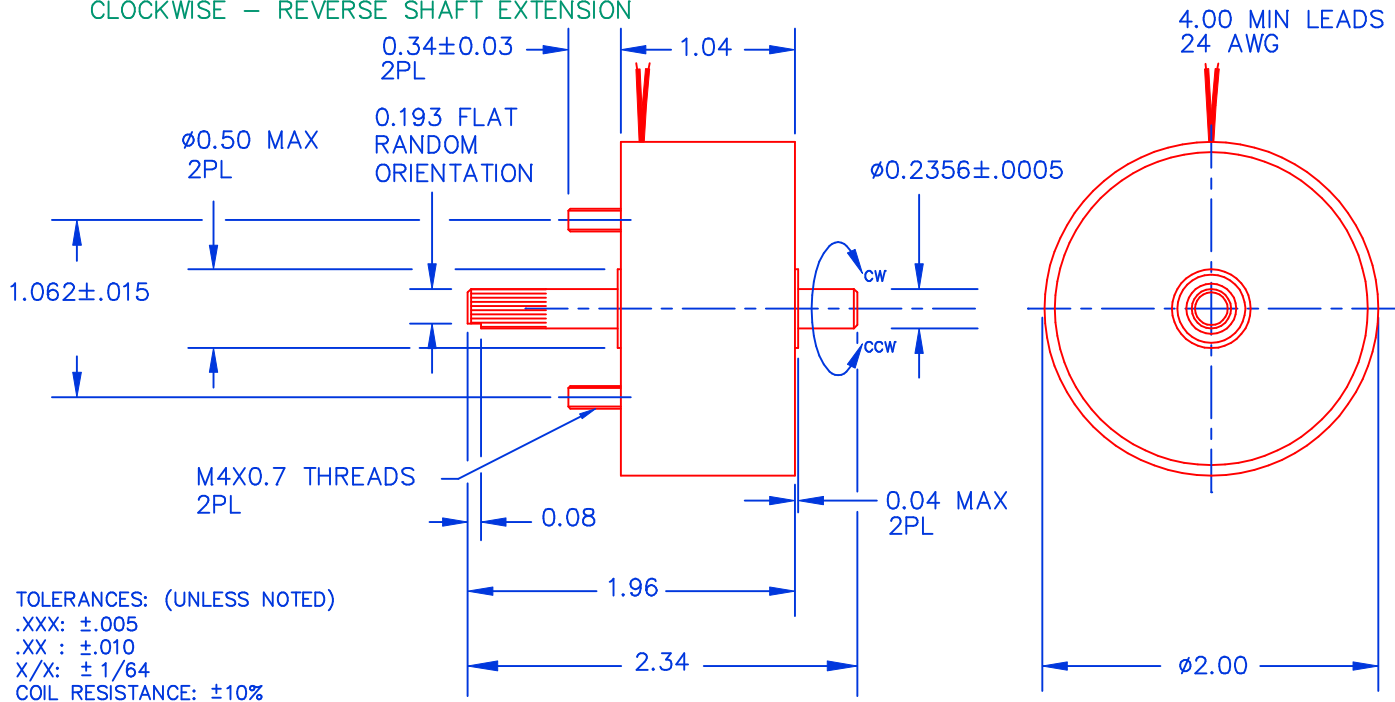
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	375	90	30
watts	11	22	44	110
approximate ampere turns	490	700	980	1560

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.40	2.1	2.9	4.2	6.6
21	0.70	2.7	3.8	5.4	8.6
22	1.0	3.4	4.9	6.9	10.9
23	1.8	4.3	6.1	8.6	13.6
24	2.6	5.5	7.8	11.0	17.4
25	4.7	7.0	9.9	14.0	22.2
26	8.0	9.2	13.0	18.3	29.0
27	11.5	11.3	16.0	22.7	35.9
28	18.6	14.2	20.1	28.4	44.9
29	30.4	17.9	25.4	35.9	56.8
30	51.2	22.9	32.4	45.9	72.6
31	74.8	28.4	40.1	56.7	89.8
32	126	35.9	50.8	71.8	114
33	171	44.5	62.9	89.0	141
34	265	55.8	78.9	112	177
35	425	71.0	100	142	225
36	680	89.9	127	180	284
37	1110	109	155	219	346

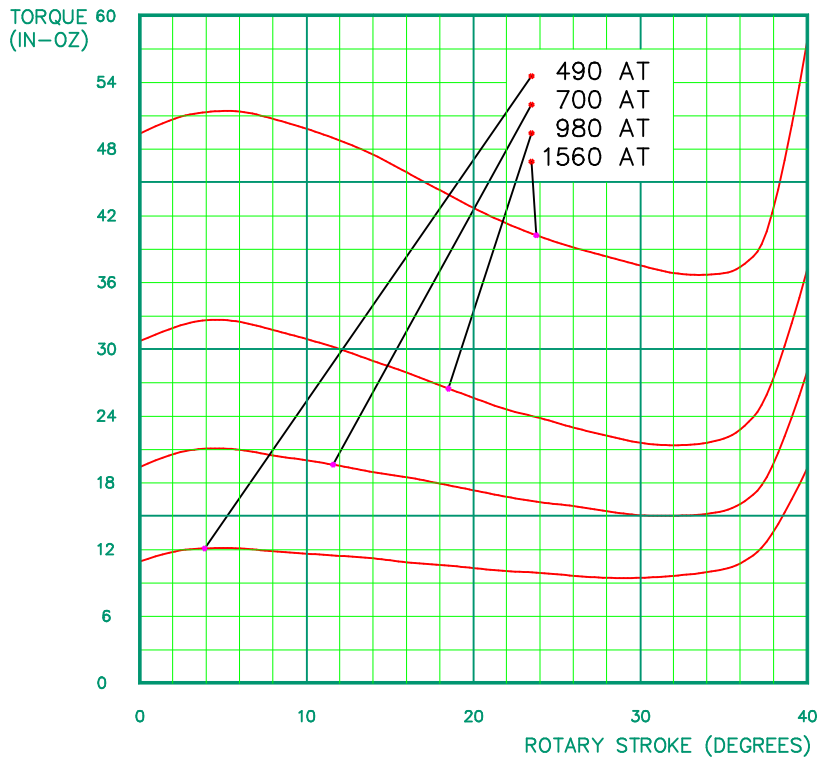
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-200-CWN
CLOCKWISE - REVERSE SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



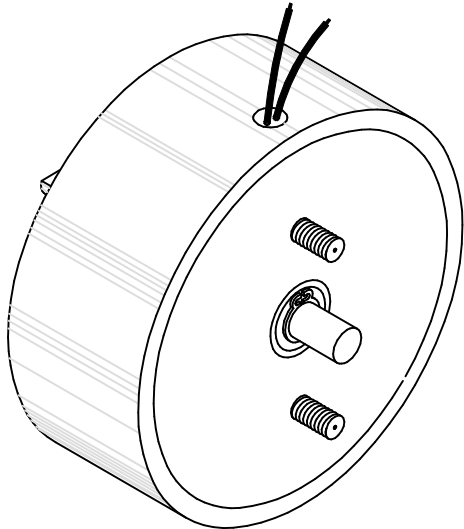
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Forward Shaft Extension



Series R-10-275-CCWM
2 3/4" DIA X 1.0"

TOTAL WEIGHT: 19.8 OUNCES

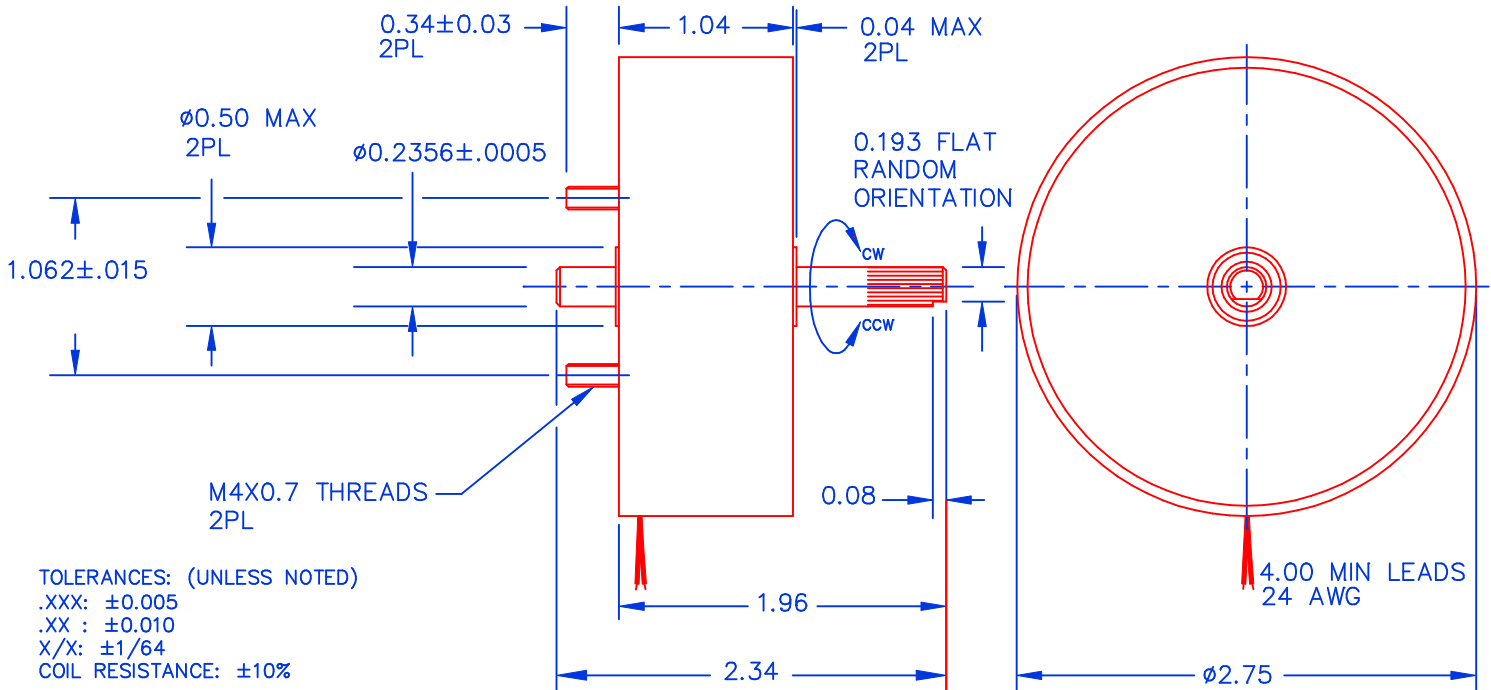
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	640	210	60
watts	12	24	48	120
approximate ampere turns	720	1020	1440	2270

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	1.3	3.9	5.5	7.7	12.2
21	2.1	4.9	6.9	9.8	15.4
22	3.3	6.2	8.7	12.3	19.5
23	5.1	7.7	10.9	15.5	24.4
24	8.3	9.8	13.9	19.6	31.0
25	13.2	12.3	17.5	24.7	39.0
26	20.9	15.6	22.1	31.2	49.4
27	32.3	19.6	27.7	39.2	62.0
28	51.2	24.9	35.2	49.8	78.7
29	79.0	31.0	43.8	61.9	97.9
30	129	39.7	56.1	79.3	125
31	214	52.3	73.9	104	165
32	308	61.8	87.4	124	195
33	499	78.6	111	157	248
34	784	99.5	141	199	315
35	1267	126	179	252	399
36	2041	158	224	316	500
37	3271	195	276	390	617

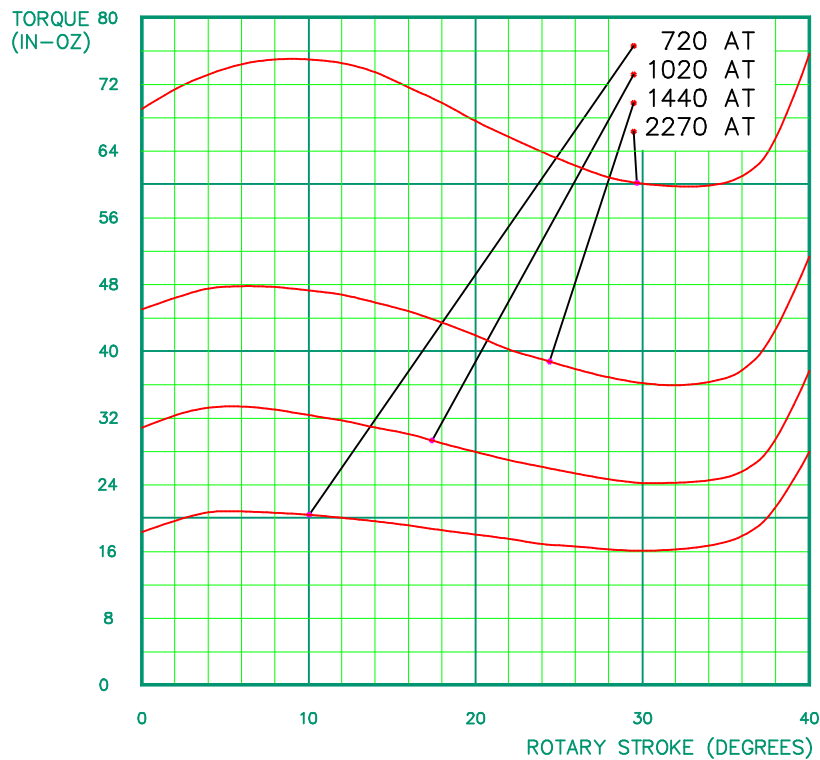
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-275-CCWM MECHANICAL DIMENSIONS COUNTER-CLOCKWISE - FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



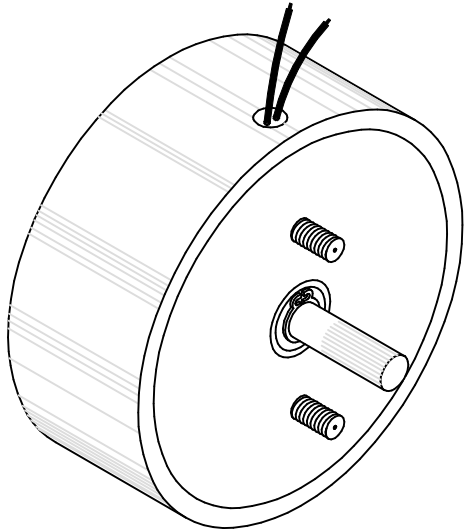
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Counter-Clockwise – Reverse Shaft Extension



Series R-10-275-CCWN
2 3/4" DIA X 1.0"

TOTAL WEIGHT: 19.8 OUNCES

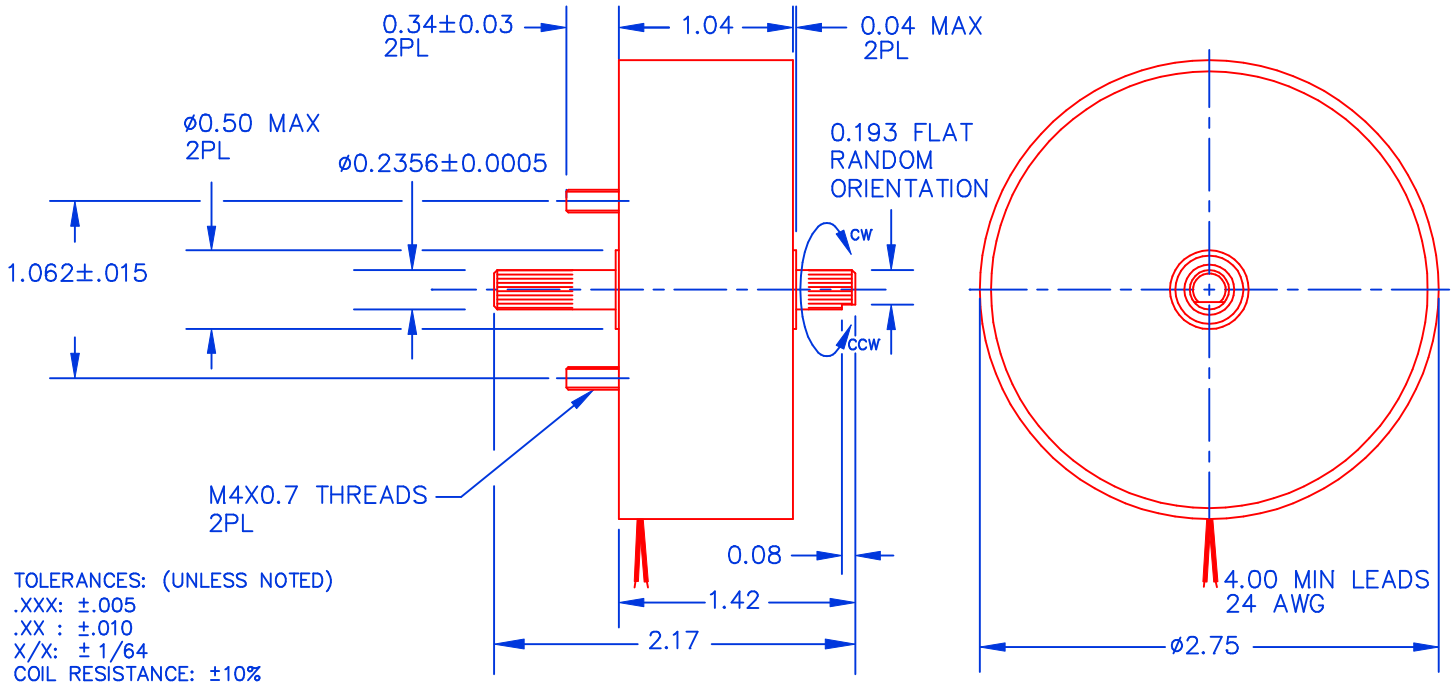
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	640	210	60
watts	12	24	48	120
approximate ampere turns	720	1020	1440	2270

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	1.3	3.9	5.5	7.7	12.2
21	2.1	4.9	6.9	9.8	15.4
22	3.3	6.2	8.7	12.3	19.5
23	5.1	7.7	10.9	15.5	24.4
24	8.3	9.8	13.9	19.6	31.0
25	13.2	12.3	17.5	24.7	39.0
26	20.9	15.6	22.1	31.2	49.4
27	32.3	19.6	27.7	39.2	62.0
28	51.2	24.9	35.2	49.8	78.7
29	79.0	31.0	43.8	61.9	97.9
30	129	39.7	56.1	79.3	125
31	214	52.3	73.9	104	165
32	308	61.8	87.4	124	195
33	499	78.6	111	157	248
34	784	99.5	141	199	315
35	1267	126	179	252	399
36	2041	158	224	316	500
37	3271	195	276	390	617

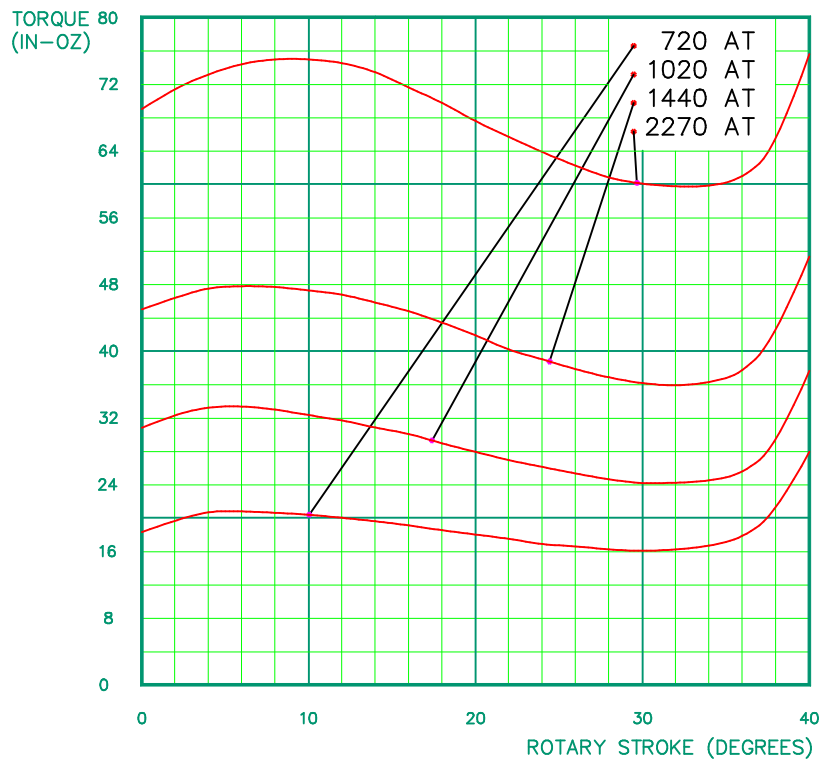
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-275-CCWN
 COUNTER-CLOCKWISE - REVERSE SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



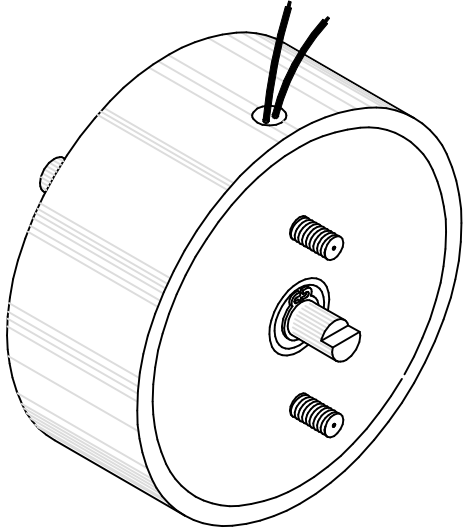
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Forward Shaft Extension



Series R-10-275-CWM
2 3/4" DIA X 1.0"

TOTAL WEIGHT: 19.8 OUNCES

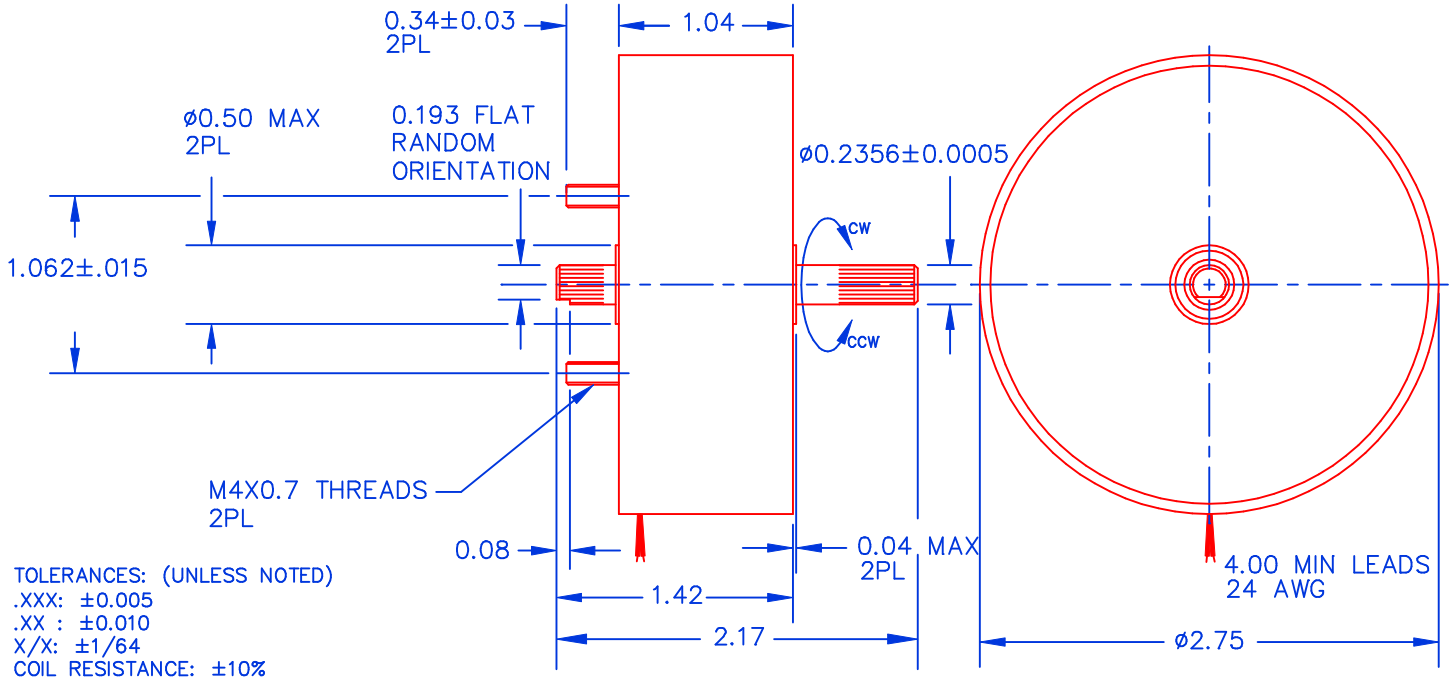
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	640	210	60
watts	12	24	48	120
approximate ampere turns	720	1020	1440	2270

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	1.3	3.9	5.5	7.7	12.2
21	2.1	4.9	6.9	9.8	15.4
22	3.3	6.2	8.7	12.3	19.5
23	5.1	7.7	10.9	15.5	24.4
24	8.3	9.8	13.9	19.6	31.0
25	13.2	12.3	17.5	24.7	39.0
26	20.9	15.6	22.1	31.2	49.4
27	32.3	19.6	27.7	39.2	62.0
28	51.2	24.9	35.2	49.8	78.7
29	79.0	31.0	43.8	61.9	97.9
30	129	39.7	56.1	79.3	125
31	214	52.3	73.9	104	165
32	308	61.8	87.4	124	195
33	499	78.6	111	157	248
34	784	99.5	141	199	315
35	1267	126	179	252	399
36	2041	158	224	316	500
37	3271	195	276	390	617

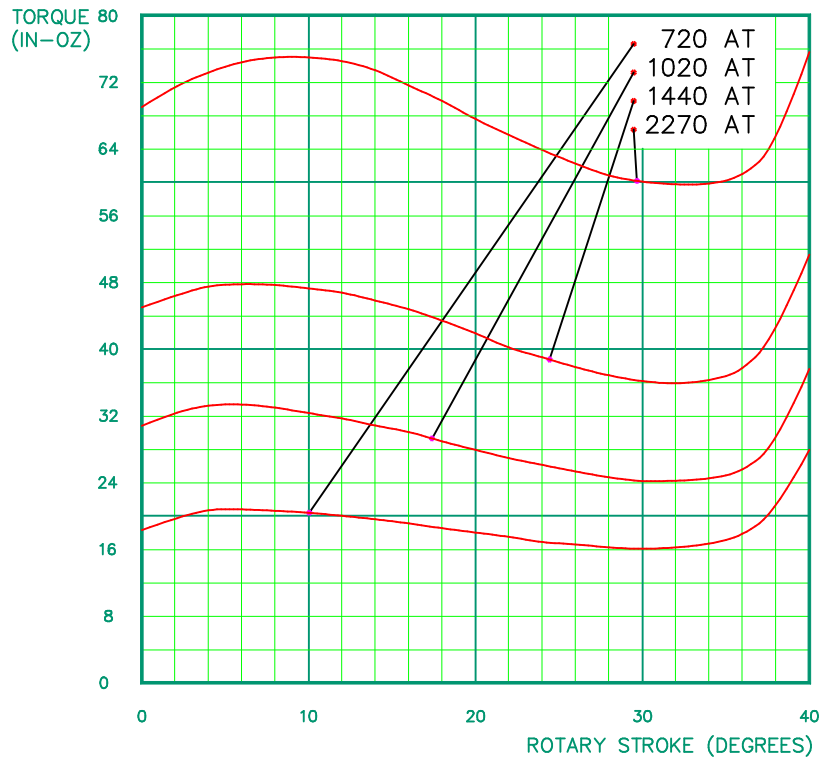
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-275-CWM
 MECHANICAL DIMENSIONS
 CLOCKWISE - FORWARD SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



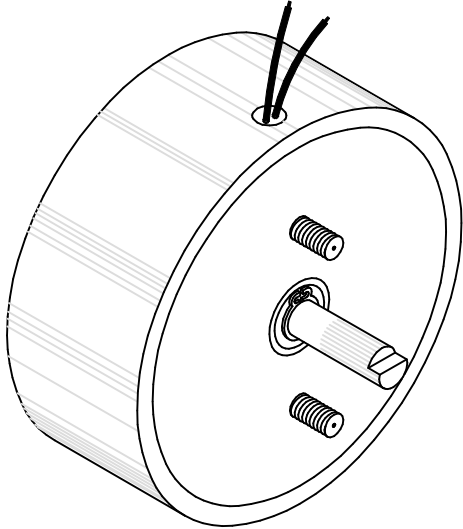
These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.

MAGNETIC SENSOR SYSTEMS

Rotary Solenoid

Clockwise – Reverse Shaft Extension



Series R-10-275-CWN
2 3/4" DIA X 1.0"

TOTAL WEIGHT: 19.8 OUNCES

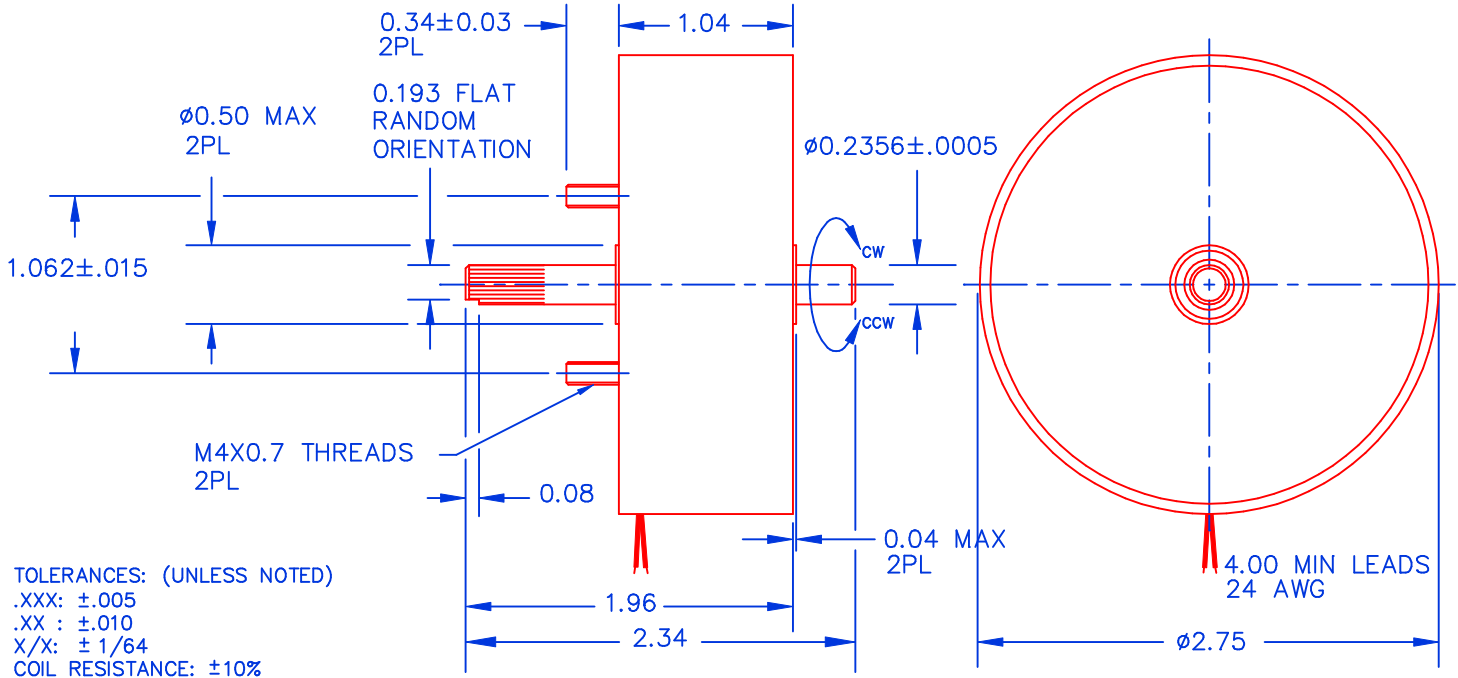
duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	640	210	60
watts	12	24	48	120
approximate ampere turns	720	1020	1440	2270

AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	1.3	3.9	5.5	7.7	12.2
21	2.1	4.9	6.9	9.8	15.4
22	3.3	6.2	8.7	12.3	19.5
23	5.1	7.7	10.9	15.5	24.4
24	8.3	9.8	13.9	19.6	31.0
25	13.2	12.3	17.5	24.7	39.0
26	20.9	15.6	22.1	31.2	49.4
27	32.3	19.6	27.7	39.2	62.0
28	51.2	24.9	35.2	49.8	78.7
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32	308	61.8	87.4	124	195
33	499	78.6	111	157	248
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35	1267	126	179	252	399
36	2041	158	224	316	500
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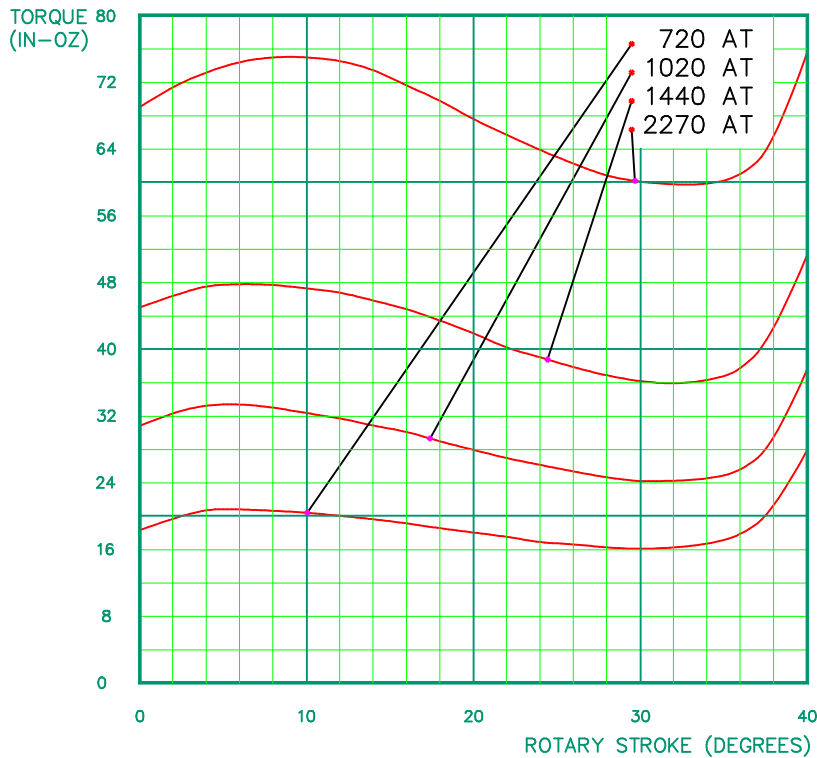
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

R-10-275-CWN MECHANICAL DIMENSIONS CLOCKWISE - REVERSE SHAFT EXTENSION



TYPICAL TORQUE VERSUS ROTARY STROKE



These torque curves do not account for return springs.

The typical return spring torque is 3.0 IN-OZ.