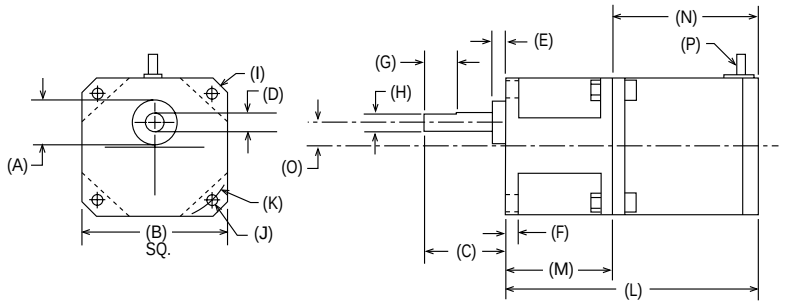
SP SERIES: LIGHT DUTY OFFSET GEARMOTORS

SIZES 017 AND 023-RATIOS 5, 10, 18:1



PART NUMBER	A PILOT DIAMETER (in.)	B SQUARE FLANGE (in.)	C SHAFT LENGTH (in.)	D SHAFT DIAMETER (in.)	E PILOT LENGTH (in.)	F FLANGE THICKNESS (in.)	O FLAT LENGTH (in.)	H DIMENSION OVER FLAT (in.)
017SPX	.708 / .710	1.65	0.79	.2495 / .2500	0.12	0.19	0.470 (2X)	0.22 (2X)
023SPX	.708 / .710	2.25	1.26	.3120 / .3125	0.20	0.19	0.500 (1X)	0.29 (1X)

PART NUMBER	I HOUSING DIAMETER (in.)	J BOLT HOLE THREAD / DIAMETER	K BOLT HOLE CIRCLE (in.)	L GEARMOTOR LENGTH (in.)	M GEARHEAD LENGTH (in.)	N MOTOR LENGTH (in.)	O OFFSET DIMENSION (in.)	P NUMBER OF LEAD WIRES
017SPX	2.05	M3 x .5	1.725	2.86	0.98	1.88	0.31	8
023SPX	3.05	0.205 (in.)	2.625	4.7	1.67	3.03	0.39	6

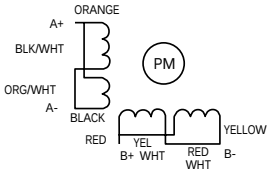
PART NUMBER	RATED PHASE CURRENT (AMPS/PHASE)	NOMINAL MOTOR STEP ANGLE	BACKLASH (ARC-MINUTES)	RADIAL SHAFT PLAY (in.)	AXIAL SHAFT PLAY (in.)	GEARHEAD WEIGHT (OZ.)	PHASE RESISTANCE (OHMS +/-10%)	WINDING INDUCTANCE (mH +/-20%)
017SPX	1.25	1.8” STEP	45	0.002	0.010	13	3.3@25˚C	3.0
023SPX	4.70	1.8” STEP	45	0.002	0.010	45	.37@25˚C	0.6

PART NUMBER	INPUT RPM (MAX.)	EFFICIENCY (MIN.) (AMPS/PHASE)	GEARHEAD MAX. CONT. TORQUE (OZ. in.)	SPECIFICATIONS
017SPX	1000	80%	160	Gearhead Ambient Operating Temperature Range -60˚F to +250˚F. Motor is rated to 265˚F. Molded Composite Housing (Max. Temp. 420˚F). Gears are High-Strength Heat-Treated Steel. Composite Bushings throughout Gearhead. Input/Output shafts turn in the same direction.
023SPX	1000	80%	320	

SIZE 017 MOTOR P/N HT17-075P

Bipolar Chopper Drive Switching Sequence for CW Rotation Facing Mounting End

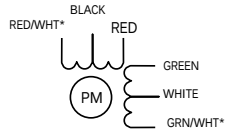
Step	A+	A-	B+	B-
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



SIZE 023 MOTOR P/N 4023-828P

Bipolar Chopper Drive Switching Sequence for CW Rotation Facing Mounting End

Step	Red	Black	Green	White
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



Motor Connection: Center Tap to end

* These wires are not used: do not connect them or ground them. They must be electricly isolated.

ALL SPECIFICATIONS SUBJECT TO CHANGE.