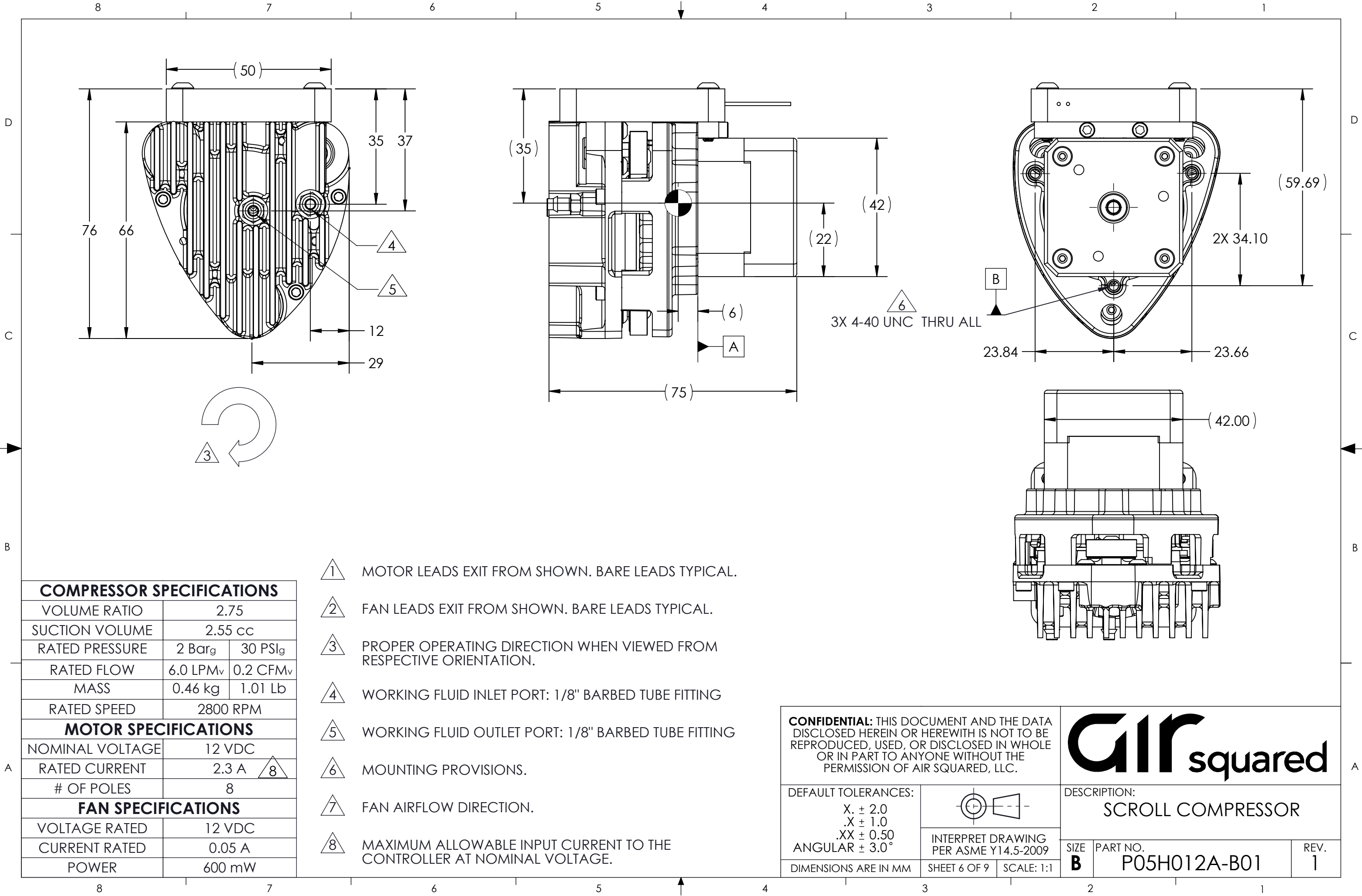




COMPRESSOR SPECIFICATIONS

VOLUME RATIO	2.75	
SUCTION VOLUME	2.55 cc	
RATED PRESSURE	2 Bar _g	30 PSI _g
RATED FLOW	6.0 LPM _v	0.2 CFM _v
MASS	0.46 kg	1.01 Lb
RATED SPEED	2800 RPM	

MOTOR SPECIFICATIONS

NOMINAL VOLTAGE	12 VDC	
RATED CURRENT	2.3 A	8
# OF POLES	8	

FAN SPECIFICATIONS

VOLTAGE RATED	12 VDC	
CURRENT RATED	0.05 A	
POWER	600 mW	

- 1 MOTOR LEADS EXIT FROM SHOWN. BARE LEADS TYPICAL.
- 2 FAN LEADS EXIT FROM SHOWN. BARE LEADS TYPICAL.
- 3 PROPER OPERATING DIRECTION WHEN VIEWED FROM RESPECTIVE ORIENTATION.
- 4 WORKING FLUID INLET PORT: 1/8" BARBED TUBE FITTING
- 5 WORKING FLUID OUTLET PORT: 1/8" BARBED TUBE FITTING
- 6 MOUNTING PROVISIONS.
- 7 FAN AIRFLOW DIRECTION.
- 8 MAXIMUM ALLOWABLE INPUT CURRENT TO THE CONTROLLER AT NOMINAL VOLTAGE.

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DEFAULT TOLERANCES:
X. ± 2.0
.X ± 1.0
.XX ± 0.50
ANGULAR ± 3.0°



INTERPRET DRAWING PER ASME Y14.5-2009

DIMENSIONS ARE IN MM

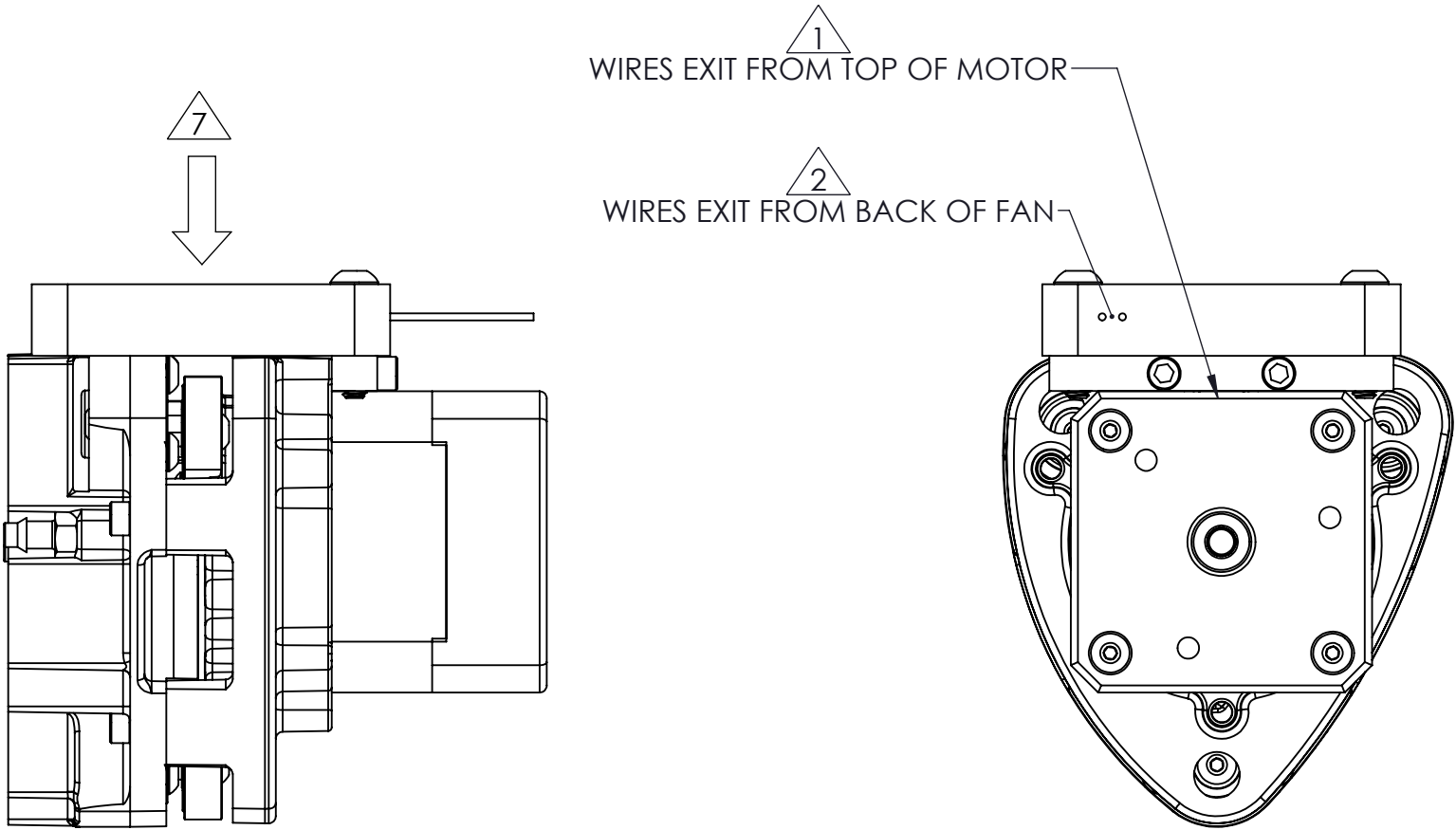
SHEET 6 OF 9

SCALE: 1:1

Air squared

DESCRIPTION:
SCROLL COMPRESSOR

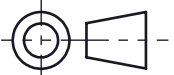
SIZE	PART NO.	REV.
B	P05H012A-B01	1



MOTOR POWER	
WIRE COLOR	SIGNAL
BLUE	A
YELLOW	B
GREEN	C
HALL SENSORS	
WIRE COLOR	SIGNAL
YELLOW	1
GREEN	2
BLUE	3
RED	VCC
BLACK	GND
FAN POWER	
RED	+
BLACK	-

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DEFAULT TOLERANCES:
X. ± 2.0
.X ± 1.0
.XX ± 0.50
ANGULAR $\pm 3.0^\circ$



INTERPRET DRAWING
PER ASME Y14.5-2009

DIMENSIONS ARE IN MM

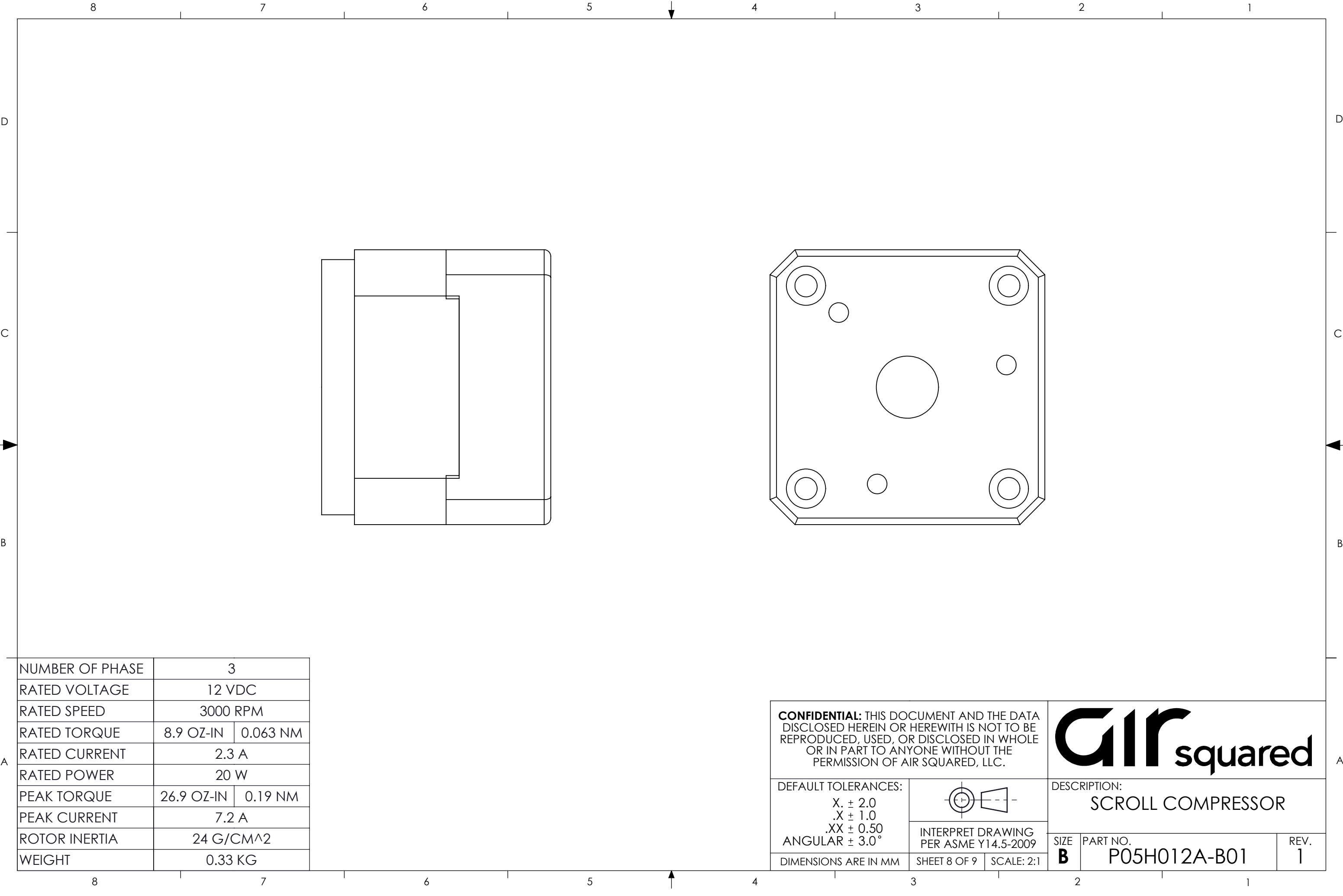
SHEET 7 OF 9

SCALE: 1:2

Airsquared

DESCRIPTION:
SCROLL COMPRESSOR

SIZE B	PART NO. P05H012A-B01	REV. 1
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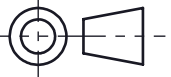
NUMBER OF PHASE	3	
RATED VOLTAGE	12 VDC	
RATED SPEED	3000 RPM	
RATED TORQUE	8.9 OZ-IN	0.063 NM
RATED CURRENT	2.3 A	
RATED POWER	20 W	
PEAK TORQUE	26.9 OZ-IN	0.19 NM
PEAK CURRENT	7.2 A	
ROTOR INERTIA	24 G/CM^2	
WEIGHT	0.33 KG	

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DEFAULT TOLERANCES:

X. ± 2.0
.X ± 1.0
.XX ± 0.50
ANGULAR ± 3.0°

DIMENSIONS ARE IN MM



INTERPRET DRAWING
PER ASME Y14.5-2009

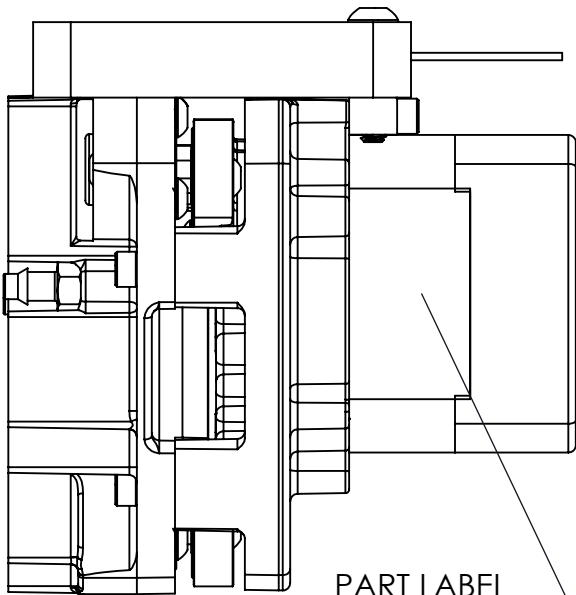
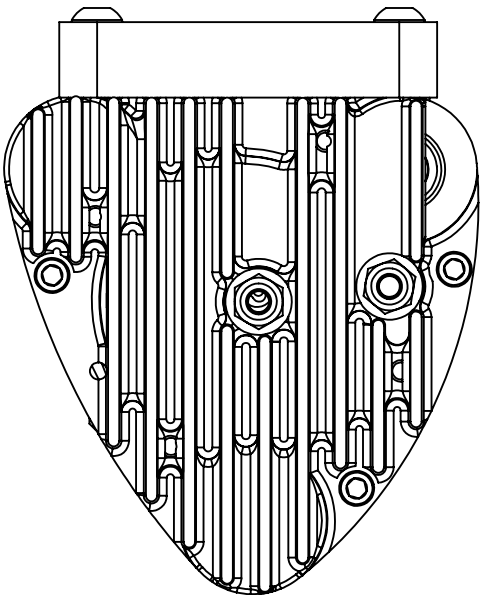
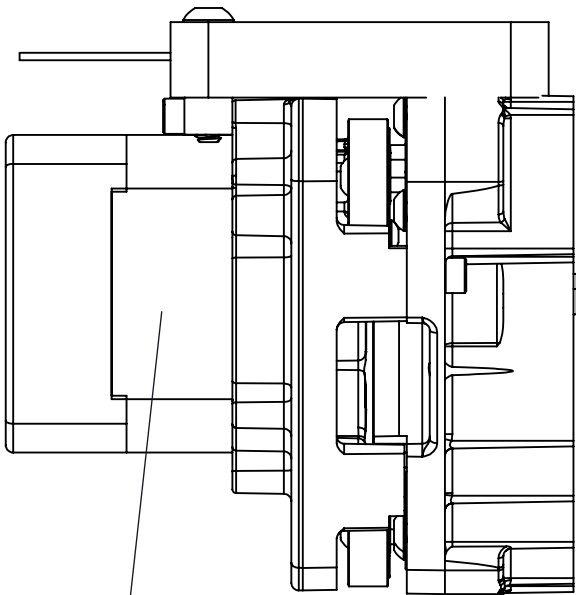
SHEET 8 OF 9

SCALE: 2:1

DESCRIPTION:
SCROLL COMPRESSOR

SIZE B	PART NO. P05H012A-B01	REV. 1
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CONFORMANCE TEST CRITERIA					
TARGET MOTOR SPEED [RPM]	TARGET OUTLET PRESSURE [PSI _g]	TARGET FLOW [LPM]	TARGET VOLTAGE [VDC]	POWER [W]	SOUND [dBA]
1500	5	2.2	12	21	41
1500	15	1.6	12	25	41
1500	25	0.4	12	30	41
2500	5	4.0	12	27	41
2500	15	3.4	12	32	41



PATENT LABEL



PART LABEL

Air Squared Mfg.
P05H012A-B01
REV: 1
Date: MM/DD/YYYY
S/N: AXXXXXX



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DEFAULT TOLERANCES:

X. $\pm$ 2.0
.X $\pm$ 1.0
.XX $\pm$ 0.50
ANGULAR $\pm$ 3.0°

DIMENSIONS ARE IN MM



INTERPRET DRAWING
PER ASME Y14.5-2009

SHEET 9 OF 9 SCALE: 1:2



DESCRIPTION:
SCROLL COMPRESSOR

SIZE B	PART NO. P05H012A-B01	REV. 1
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