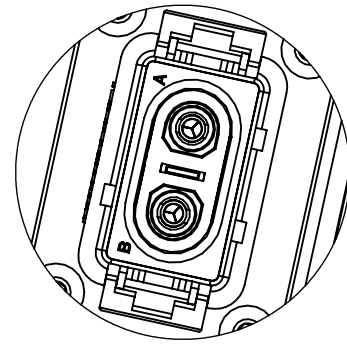


**MOUNTING INTERFACE**

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<p>DEFAULT TOLERANCES:  X. ± 2.0  .X ± 1.0  .XX ± 0.50  ANGULAR ± 3.0°</p>		<p>INTERPRET DRAWING PER ASME Y14.5-2009</p>	
<p>DESCRIPTION:  <b>SCROLL COMPRESSOR</b></p>		<p>SIZE  <b>B</b></p>	<p>PART NO.  <b>P17H043D-CXX</b></p>
<p>DIMENSIONS ARE IN MM</p>		<p>SHEET 2 OF 5</p>	<p>SCALE: 1:5</p>
		<p>REV.  <b>1</b></p>	

INTERFACE #	DESCRIPTION	(ON UNIT) CONNECTOR P/N	(MATING) CONNECTOR P/N
1	POWER CONNECTION	ATHP042P25	ATHP062S25EL-S1
2	COMMUNICATION CONNECTION	ATM15-08PA-BM02	ATM06-08SA-KT01



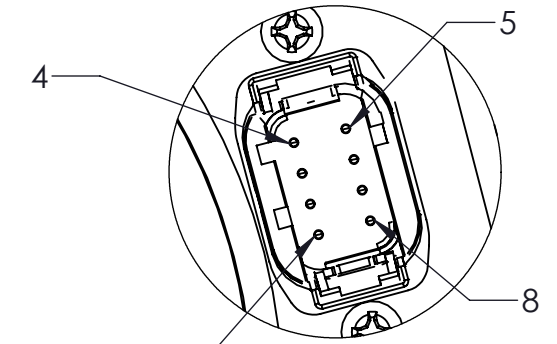
DETAIL C  
SCALE 1 : 1

POWER CONNECTION ①

PIN	SIGNAL
A	+VDC
B	-VDC



② GROUNDING LOCATION



DETAIL D  
SCALE 1 : 1

COMMUNICATION CONNECTOR ②

PIN	SIGNAL
1	VCC
2	GND
3	CAN-H
4	CAN-L
5	STO-0
6	STO-1
7	HVIL-0
8	HVIL-1



LABEL INFORMATION

STANDARD CONFIGURATIONS

P17H043D-CXX  
REV: X SN:AXXXXXX  
MM/DD/YYYY  
MADE IN THE UNITED STATES



[HTTP://AIRSQUARED.COM/PATENT](http://airsquared.com/patent)

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.XX ± 0.50  
ANGULAR ± 3.0°



INTERPRET DRAWING  
PER ASME Y14.5-2009

DIMENSIONS ARE IN MM

SHEET 3 OF 5

SCALE: 1:5



DESCRIPTION:  
SCROLL COMPRESSOR

SIZE	PART NO.	REV.
<b>B</b>	P17H043D-CXX	1

END OF LINE TEST CRITERIA (REFERENCE) <span style="border: 1px solid black; padding: 2px;">2</span>								
TEST POINT	SPEED	PRESSURE WORKING FLUID OUT	VOLTAGE	FLOW COOLANT	TEMPERATURE COOLANT IN	FLOW WORKING FLUID OUT	TEMPERATURE WORKING FLUID OUT	SPECIFIC POWER
#	RPM	PSIG	V	LPM	C	LPM	C	W/LPM
-	± 25	± 3	± 10	± 0.5	± 3	DATA CAPTURED DURING TESTING REFERENCE ONLY		
1	2500	100	600	6	20			
2	2500	130						
3	3000	100						
4	3000	130						
5	3400	100						
6	3400	110						
7	3400	130						
8	3600	100						
9	3600	130						

END OF LINE TEST CRITERIA (CRITICAL PASS/FAIL) <span style="border: 1px solid black; padding: 2px;">1</span>								
TEST POINT	SPEED	PRESSURE WORKING FLUID OUT	VOLTAGE	FLOW COOLANT	TEMPERATURE COOLANT IN	FLOW WORKING FLUID OUT	TEMPERATURE WORKING FLUID OUT	SPECIFIC POWER
#	RPM	PSIG	V	LPM	C	LPM	C	W/LPM
-	± 25	± 3	± 10	± 0.5	± 3	≥	≤	<
TEST 2	2500	130	600	6	20	277	45	12.8
TEST 4	3000	130	600	6	20	344	48	11.9
TEST 6	3400	110	600	6	20	399	50	10.5

COOLANT SYSTEM LEAK PRESSURE CHECK <span style="border: 1px solid black; padding: 2px;">1</span>	
DESCRIPTION	SPEC.
PRESSURIZE W/ AIR	50 ± 5 PSI
HOLD PRESSURE LEVEL	≥ 15 MIN
PRESSURE DETERIORATION	< 0.3 PSI

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

INTERPRET DRAWING PER ASME Y14.5-2009

DIMENSIONS ARE IN MM



**Air squared**

DESCRIPTION:  
SCROLL COMPRESSOR

SIZE	PART NO.	REV.
<b>B</b>	P17H043D-CXX	1

SHEET 4 OF 5 SCALE: 1:5

INTERFACES:

1. UNIT MOUNTING ORIENTATION IS FLEXIBLE. DOWNWARD MOTOR ORIENTATION IS NOT PREFERRED. 3
- 2 LIFTING HOOK NOT REQUIRED FOR OPERATION. REMOVE AFTER SYSTEM INSTALLATION. 3
- 3 STANDARD POSITION TOLERANCE:  $\begin{matrix} \oplus & 3 & A & B \end{matrix}$
- 4 RECOMMENDED TORQUE SPECIFICATION: 48 NM +/- 8 NM 2  
RECOMMENDED MINIMUM THREAD ENGAGEMENT: 15 MM
- 5 RECOMMENDED TORQUE SPECIFICATION: 40 NM +/- 8 NM 2
- 6 RECOMMENDED TORQUE SPECIFICATION: 3 NM 3
7. EVACUATE COOLANT LINES WITH A MINIMUM PRESSURE OF 0.15 PSIA
- 8 EXCLUDES AIR INLET. IP RATING ONLY VALID WHEN MATING ELECTRICAL CONNECTORS ARE INSTALLED
- 9 RED LOCTITE 262 (OR EQUIVALENT) RECOMMENDED
- 10 BLUE LOCTITE 242 (OR EQUIVALENT) RECOMMENDED
11. SHIPPING CAPS NOT SHOWN

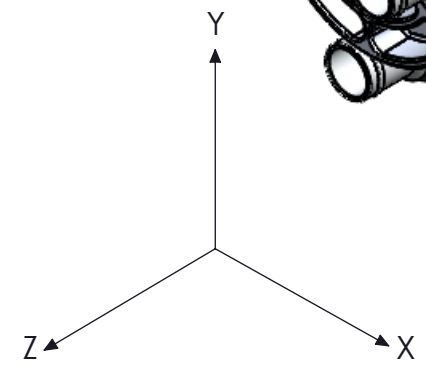
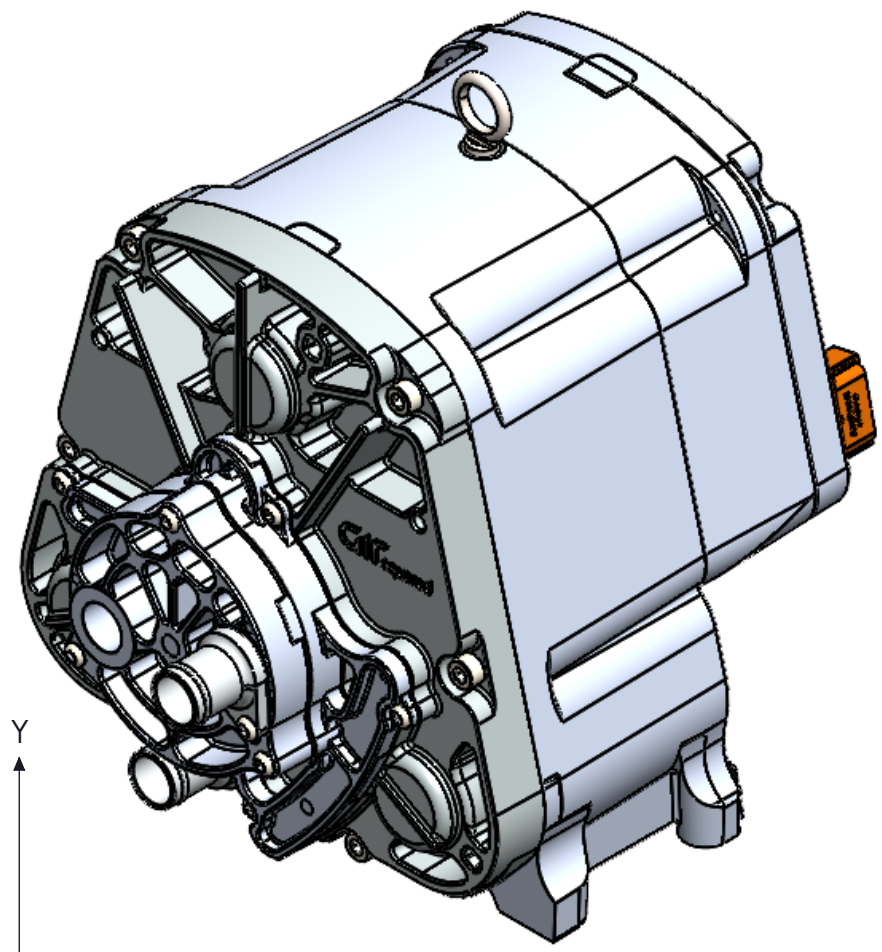
- 3 PROPER STORAGE:
12. UNITS ARE RECOMMENDED TO BE RETURNED TO ITS ORIGINAL PACKAGING FOR SAFEKEEPING AND PROTECTION AGAINST DENTS OR SCRATCHES
  13. STORE UNITS INDOORS, IN A DRY AREA, TO PREVENT DUNNAGE BREAKDOWN AND GENERAL OXIDATION
    - IF A DRY AREA IS UNAVAILABLE PLACE THE UNIT IN AN APPROPRIATELY SIZED VAPOR CORROSION INHIBITOR (VCI) BAG, AND THEN BACK INTO ITS ORIGINAL PACKAGING
  14. KEEP ALL INTERFACES CAPPED OR COVERED TO AVOID OXIDATION OF CRITICAL FEATURES
  15. MAXIMUM SHELF LIFE OF 18 MONTHS WITHOUT OPERATION

- 3 HANDLING INSTRUCTIONS:
16. TO PREVENT INJURY OR DAMAGE TO THE COMPRESSOR, IT IS RECOMMENDED TO TRANSPORT THE UNIT VIA THE LIFTING HOOK AND A HOISTING MECHANISM.
  17. AVOID CONTACT WITH EXTERNAL OBJECTS TO PREVENT DENTS OR SRATCHES
  18. ENSURE THE UNIT IS NOT RUNNING AND IS POWERED OFF BEFORE DISCONNECTING

- 2 CLEANLINESS SPECIFICATION:
19. UNITS WILL SHIP FROM AIR SQUARED IN ACCORDANCE WITH AIR SQUARED CLEANLINESS SPECIFICATION
    - EXTERNAL SURFACES WILL BE FREE OF DEBRIS, BURRS, OIL, LUBRICANT, AND CORROSION

CONFIGURATION PART NUMBERS  
 \*ADDITIONAL CONFIGURATIONS AVAILABLE UPON REQUEST\* 1  
 \*\*-XXX TO BE ADDED TO PART NUMBER FOR OEM CONFIGURATIONS\*\*

COMPRESSOR P/N	NOMINAL VOLTAGE	HV INPUT RANGE	BAUD RATE	UTILIZES INTEGRATED TERMINATING RESISTOR IN COMPRESSOR
P17H043D-C07-C1	650	540-800	500	YES
P17H043D-C07-C2	650	540-800	500	NO



MOMENT OF INERTIA (g\*mm<sup>2</sup>) 2

VALUES TAKEN AT DATUM B

	X	Y	Z
X	420031973.40	-125690858.08	41156008.66
Y	-125690858.08	237643963.52	-78912148.56
Z	41156008.66	-78912148.56	446284652.18

- PRODUCT CHARACTERISTICS:
- 1 CRITICAL
  - 2 SIGNIFICANT
  - 3 PASS THROUGH

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DESCRIPTION:  
**SCROLL COMPRESSOR**

SIZE <b>B</b>	PART NO. <b>P17H043D-CXX</b>	REV. <b>1</b>
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