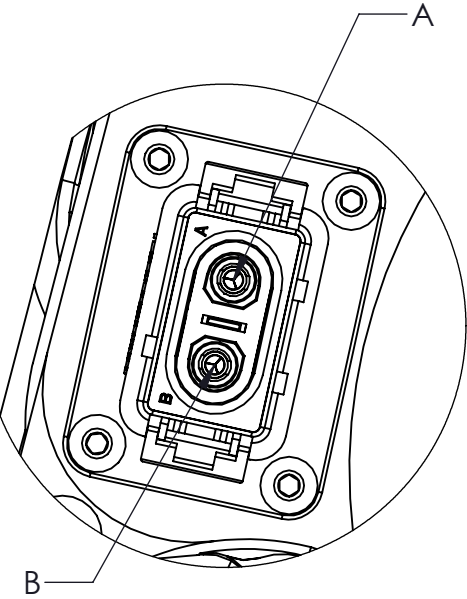


INTERFACE #	DESCRIPTION	(ON UNIT) CONNECTOR P/N	(MATING) CONNECTOR P/N
1	POWER CONNECTION	ATHP042P25	ATHP062S25EL-S1
2	COMMUNICATION CONNECTION	ATM15-08PA-BM02	ATM06-08SA-KT01

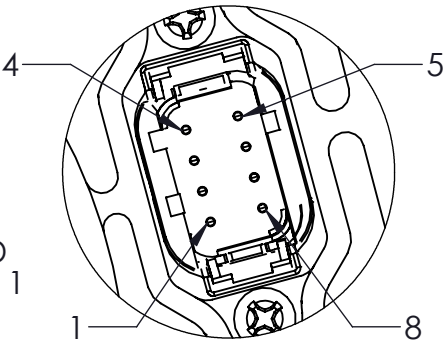
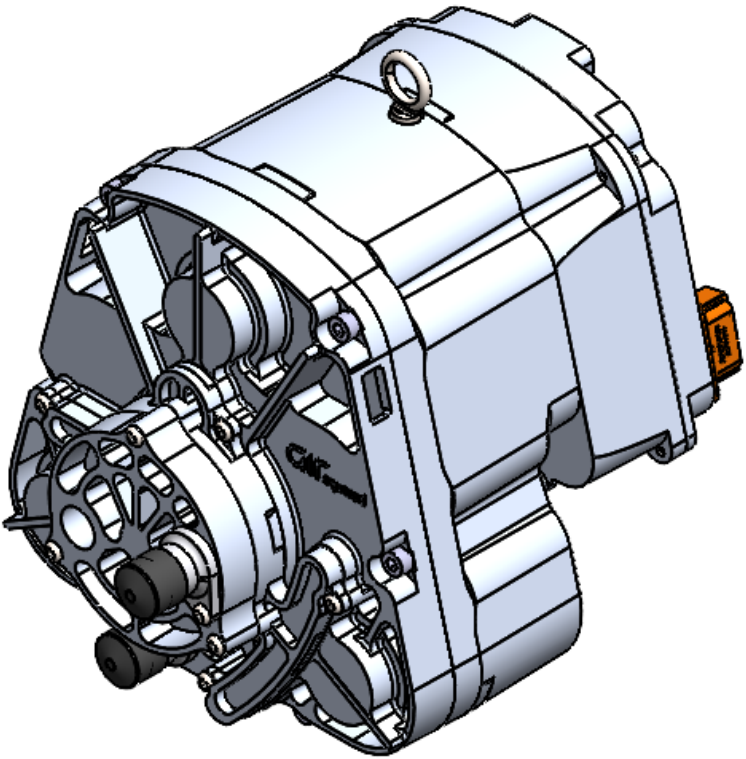
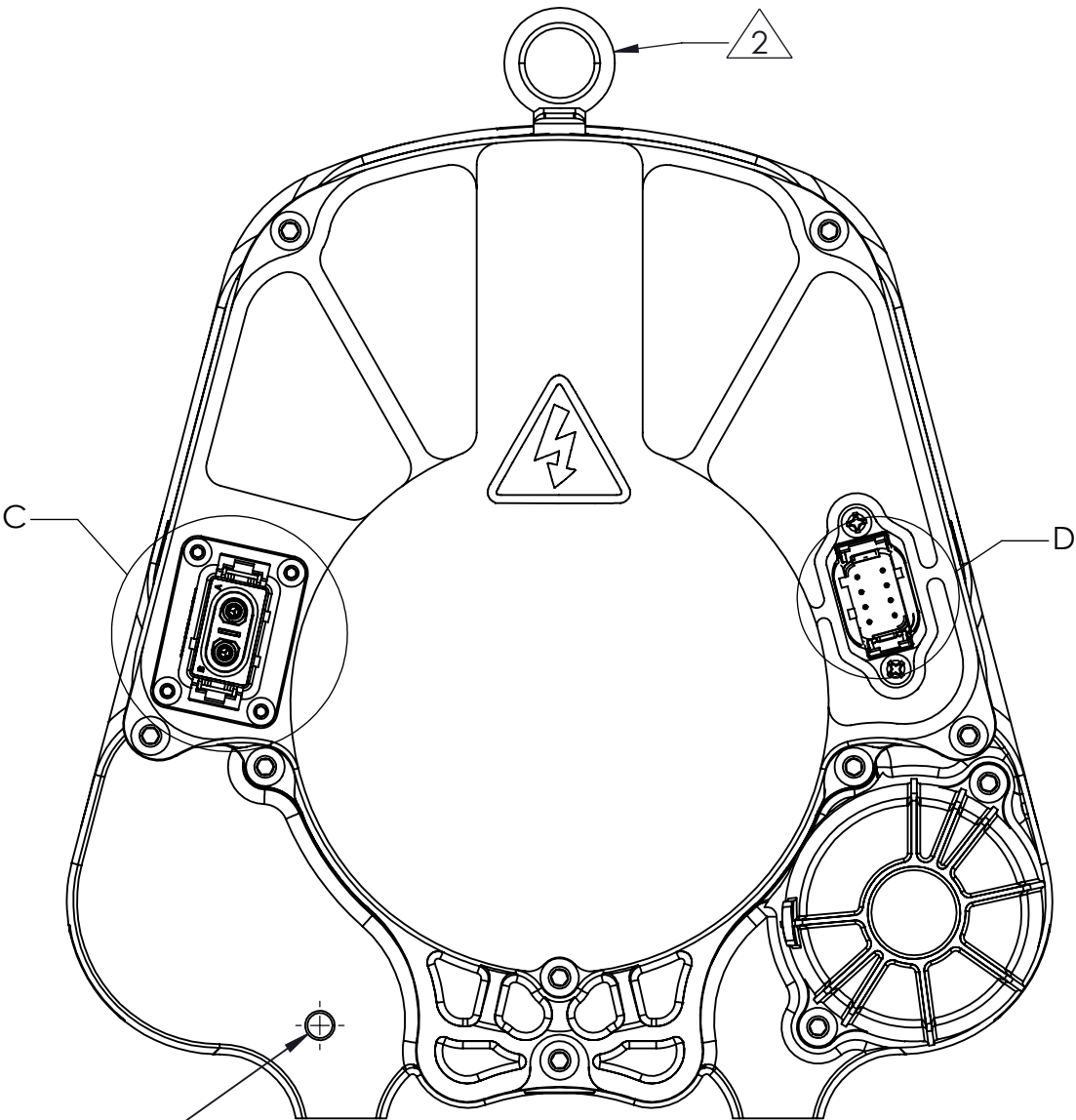


DETAIL C
SCALE 1 : 1

POWER CONNECTION ①	
PIN	SIGNAL
A	+VDC
B	-VDC

*ENSURE PROPER ORIENTATION DURING MATING CONNECTOR INSTALLATION. BACKWARDS CONNECTION WILL DAMAGE COMPRESSOR

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-B07-CX
REV: X SN:AXXXXXX
MM/DD/YYYY
MADE IN THE UNITED STATES

Air squared

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

ELECTRICAL SPECIFICATIONS ①

NOMINAL VOLTAGE	SEE PAGE 4
CONTINUOUS RATED LINE CURRENT	12.6 A
SPEED RATING	3500 RPM
HV INPUT RANGE	SEE PAGE 4
LV INPUT RANGE	9-36 VDC
HV ISOLATION RESISTANCE	> 500 Ω/V (@ 1kV)
HV ISOLATION VOLTAGE	1 kVDC

DEFAULT TOLERANCES:

X. ± 2.0
.X ± 1.0
.XX ± 0.50
.XXX ± 0.100
ANGULAR ± 3.0°

INTERPRET DRAWING PER
ASME Y14.5-2009

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DIMENSIONS ARE IN MM
SHEET 2 OF 4 SCALE: 1:5


Air squared


DESCRIPTION:
SCROLL COMPRESSOR

SIZE B	PART NO. P17H043D-B07-CX	REV. 5
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END OF LINE TEST CRITERIA (REFERENCE) 2								
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) 1								
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 	
DESCRIPTION	SPEC.
PRESSURIZE W/ AIR	50 ± 5 PSI
HOLD PRESSURE LEVEL	≥ 15 MIN
PRESSURE DETERIORATION	< 0.3 PSI

DEFAULT TOLERANCES: <div>X. ± 2.0 .X ± 1.0 .XX ± 0.50 .XXX ± 0.100 ANGULAR ± 3.0°</div>	CONFIDENTIAL. THIS DOCUMENT AND THE DATA DISCLOSED HEREIN OR HERewith IS NOT TO BE REPRODUCED, USED, OR DISCLOSED IN WHOLE OR IN PART TO ANYONE WITHOUT THE PERMISSION OF AIR SQUARED, INC.			
			DESCRIPTION: SCROLL COMPRESSOR	
	INTERPRET DRAWING PER ASME Y14.5-2009		DIMENSIONS ARE IN MM	SIZE B
		SHEET 3 OF 4	SCALE: 1:5	REV. 5

INTERFACES:

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

PROPER STORAGE:

11. UNITS ARE RECOMMENDED TO BE RETURNED TO ITS ORIGINAL PACKAGING FOR SAFEKEEPING AND PROTECTION AGAINST DENTS OR SCRATCHES
12. 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
13. KEEP ALL INTERFACES CAPPED OR COVERED TO AVOID OXIDATION OF CRITICAL FEATURES
14. MAXIMUM SHELF LIFE OF 18 MONTHS WITHOUT OPERATION

HANDLING INSTRUCTIONS:

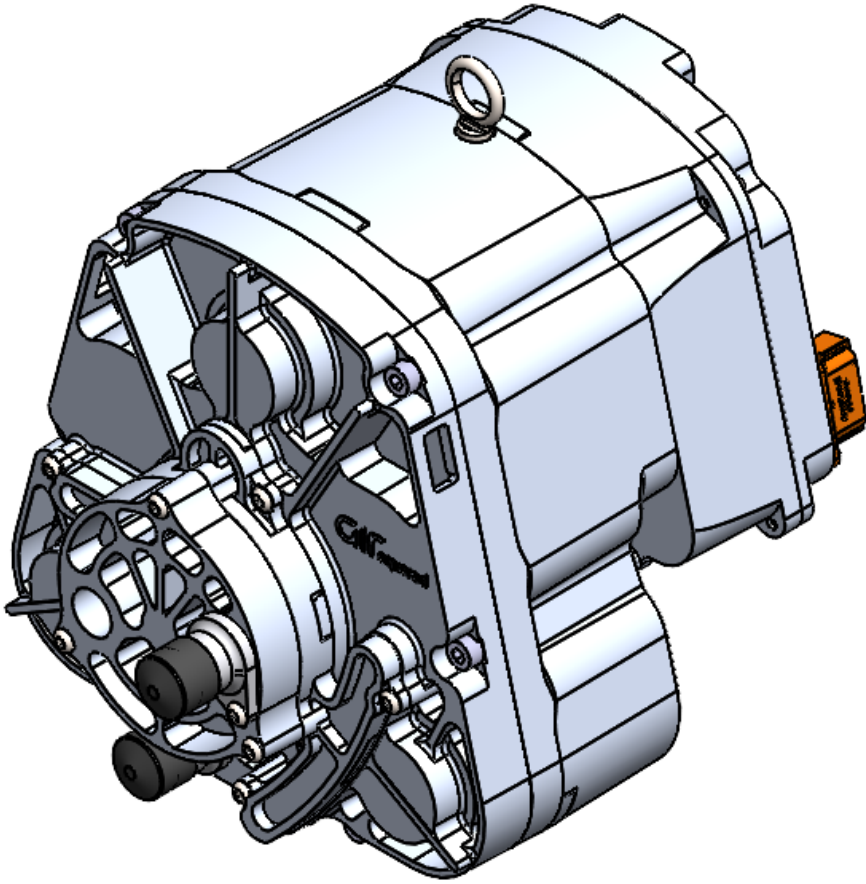
15. TO PREVENT INJURY OR DAMAGE TO THE COMPRESSOR, IT IS RECOMMENDED TO TRANSPORT THE UNIT VIA THE LIFTING HOOK AND A HOISTING MECHANISM.
16. AVOID CONTACT WITH EXTERNAL OBJECTS TO PREVENT DENTS OR SCRATCHES
17. ENSURE THE UNIT IS NOT RUNNING AND IS POWERED OFF BEFORE DISCONNECTING

CLEANLINESS SPECIFICATION:

18. 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
-XXX TO BE ADDED TO PART NUMBER FOR OEM CONFIGURATIONS 1

COMPRESSOR P/N	NOMINAL VOLTAGE	HV INPUT RANGE	BAUD RATE	UTILIZES INTEGRATED TERMINATING RESISTOR IN COMPRESSOR
P17H043D-B07-C1	650	540-800	500	YES
P17H043D-B07-C2	650	540-800	500	NO



PRODUCT CHARACTERISTICS:

- 1 1. CRITICAL
- 2 2. SIGNIFICANT
- 3 3. PASS THROUGH

MOMENT OF INERTIA (g*mm^2) 2

VALUES TAKEN AT DATUM B

-	X	Y	Z
X	411528027.65	-128492974.61	36043432.57
Y	-128492974.61	218753029.23	-75841721.23
Z	36043432.57	-75841721.23	441871277.80

DEFAULT TOLERANCES:

X. ± 2.0
.X ± 1.0
.XX ± 0.50
.XXX ± 0.100
ANGULAR $\pm 3.0^\circ$

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DIMENSIONS ARE IN MM
SHEET 4 OF 4 SCALE: 1:5

Air squared

DESCRIPTION:
SCROLL COMPRESSOR

SIZE **B** PART NO. P17H043D-B07-CX REV. 5