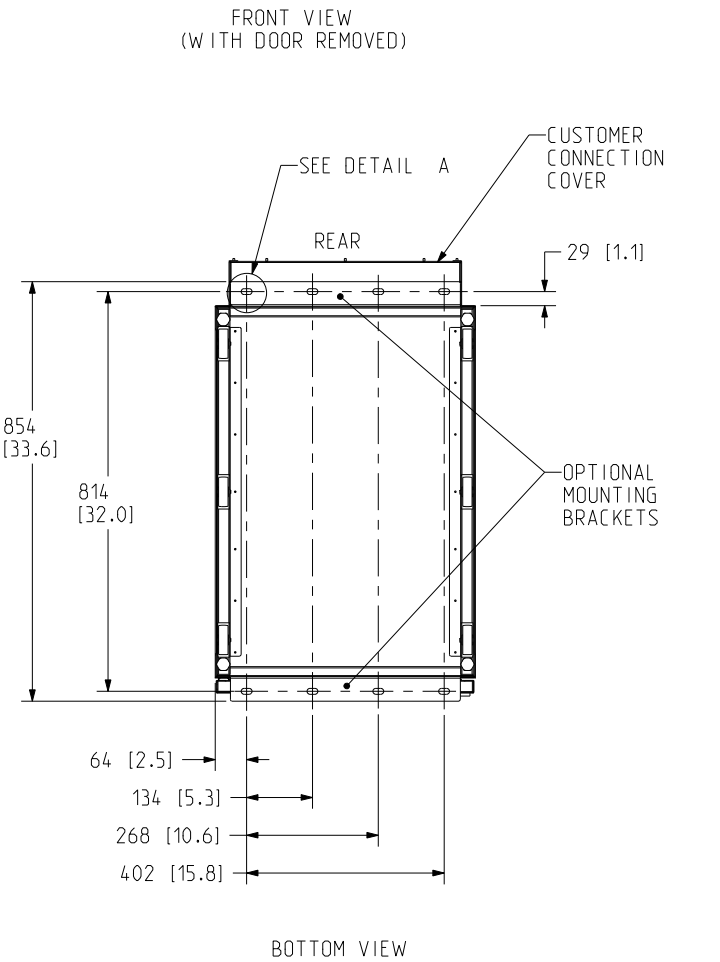
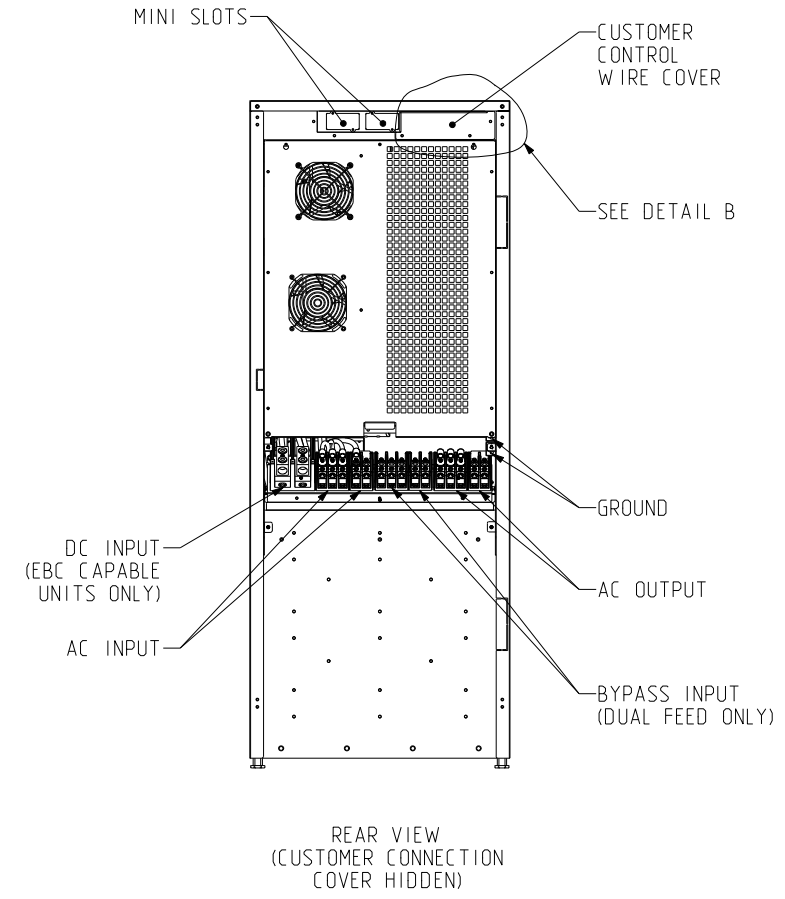
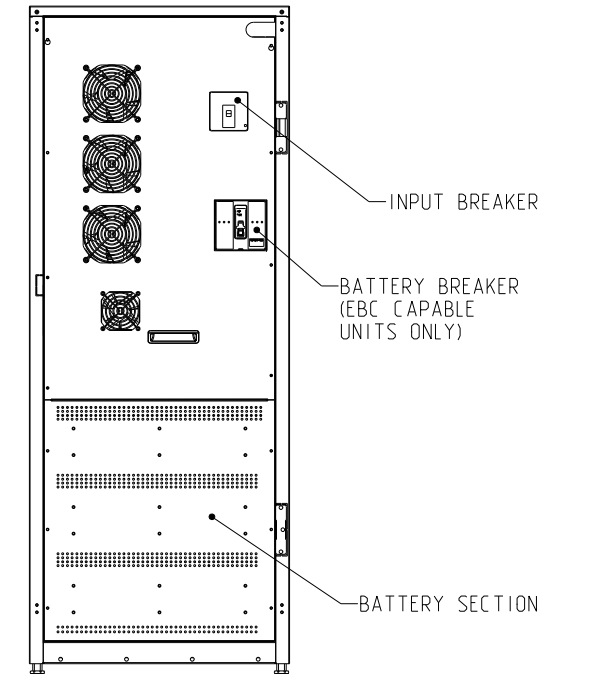
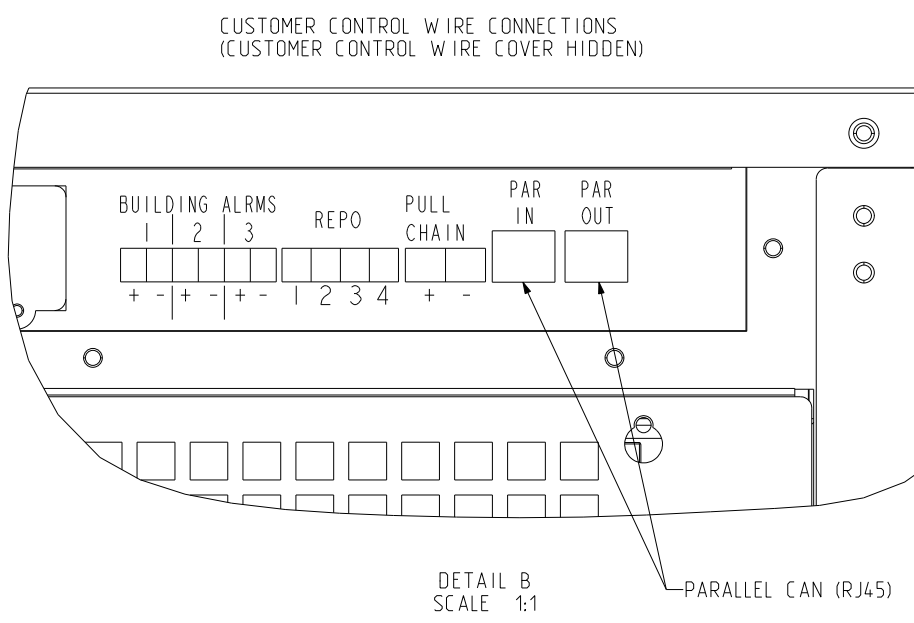
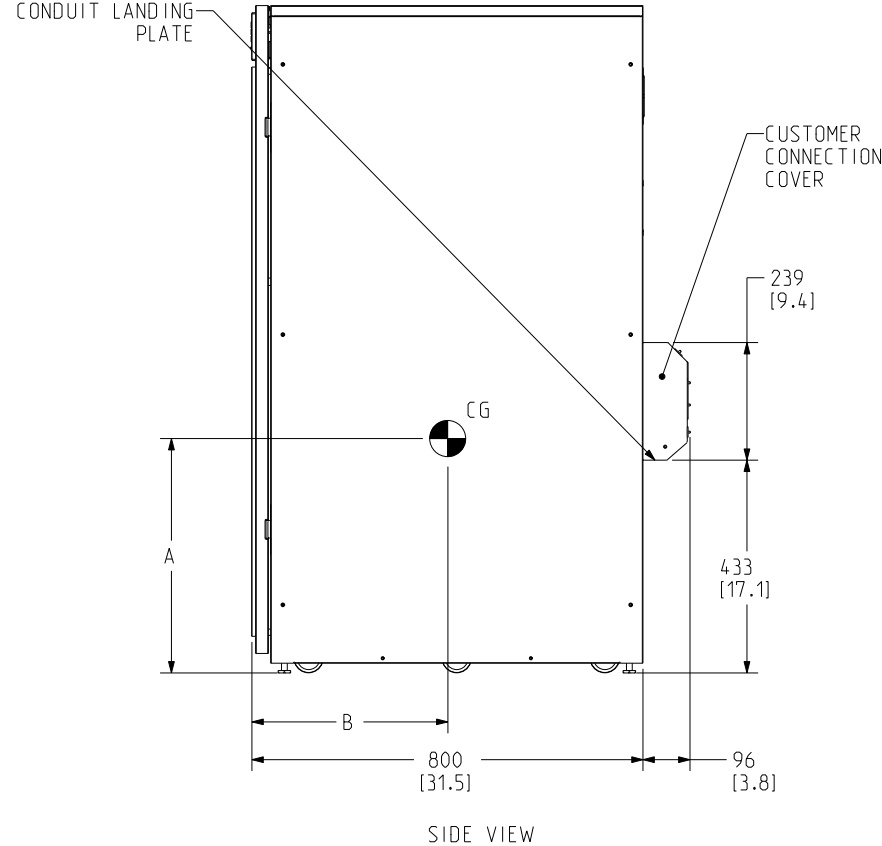
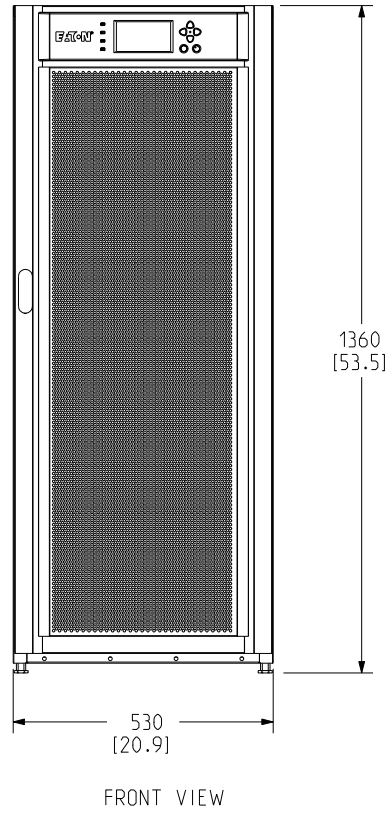
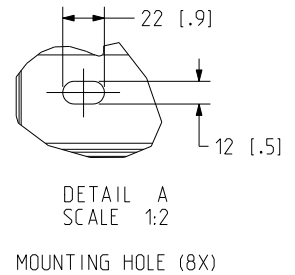


- NOTES
- FOR OPTIONAL MOUNTING BRACKETS USE SHIPPING BRACKETS. INSTALLED HEIGHT WITH MOUNTING BRACKETS IS 1358mm [53.46"].
  - CENTER OF GRAVITY AND WEIGHT: SEE TABLE
  - THE SYSTEM MUST BE INSTALLED ON A LEVEL FLOOR SURFACE SUITABLE FOR COMPUTER OR ELECTRONIC EQUIPMENT.
  - THE SYSTEM MUST BE INSTALLED IN A TEMPERATURE AND HUMIDITY CONTROLLED INDOOR AREA FREE OF CONDUCTIVE CONTAMINANTS.
  - AMBIENT TEMPERATURE RANGE 0-30degC [32-86degF] AT AN ELEVATION OF 0 TO 1500 M RECOMMENDED OPERATING RANGE: 20-25degC [68-77degF] MAXIMUM RELATIVE HUMIDITY: 95% NON-CONDENSING.
  - MINIMUM 900mm [36"] FRONT ACCESS AND 900mm [36"] REAR ACCESS NEEDED FOR SERVICING.
  - MINIMUM 200mm [8"] CLEARANCE IN REAR, NOT INCLUDING CUSTOMER CONNECTION COVER, IS NEEDED FOR VENTILATION EXHAUST.
  - MINIMUM 550mm [21.6"] CLEARANCE IN FRONT IS NEEDED FOR COOLING AIR INTAKE AND DOOR SWING.
  - TOTAL OPERATIONAL AIR FLOW FOR CABINET AT FULL LOAD IS 264 CFM.
  - THE UPS CABINET CAN BE INSTALLED IN LINE-UP-AND-MATCH OR STANDALONE CONFIGURATIONS.
  - BOTTOM CABLE ENTRY THROUGH REMOVABLE CONDUIT LANDING PLATE. PLATE SHALL BE CUSTOM MODIFIED TO SUIT CONDUIT SIZES.
  - CONTROL WIRE CONDUIT CAN LAND ON CONDUIT LANDING PLATE OR IF FLEXIBLE ON CUSTOMER CONTROL WIRE COVER.
  - CUSTOMER WIRING MUST USE 90°C COPPER WIRE ONLY. REFER TO TABLES FOR CUSTOMER WIRING FOR WIRE SIZES.
  - ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRIC CODES.
  - AC INPUT TO UPS RECTIFIER (0.98 MIN PF): 3 PHASES, NEUTRAL, GROUND.  
AC OUTPUT TO LOAD: 3 PHASES, NEUTRAL, GROUND.  
AC INPUT TO UPS BYPASS (DUAL FEED ONLY): 3 PHASES, NEUTRAL, GROUND.  
DC INPUT TO UPS (EXTERNAL BATTERY ONLY): POSITIVE, NEGATIVE, GROUND.
  - SPECIFICATIONS ARE SUBJECT TO CHANGE.



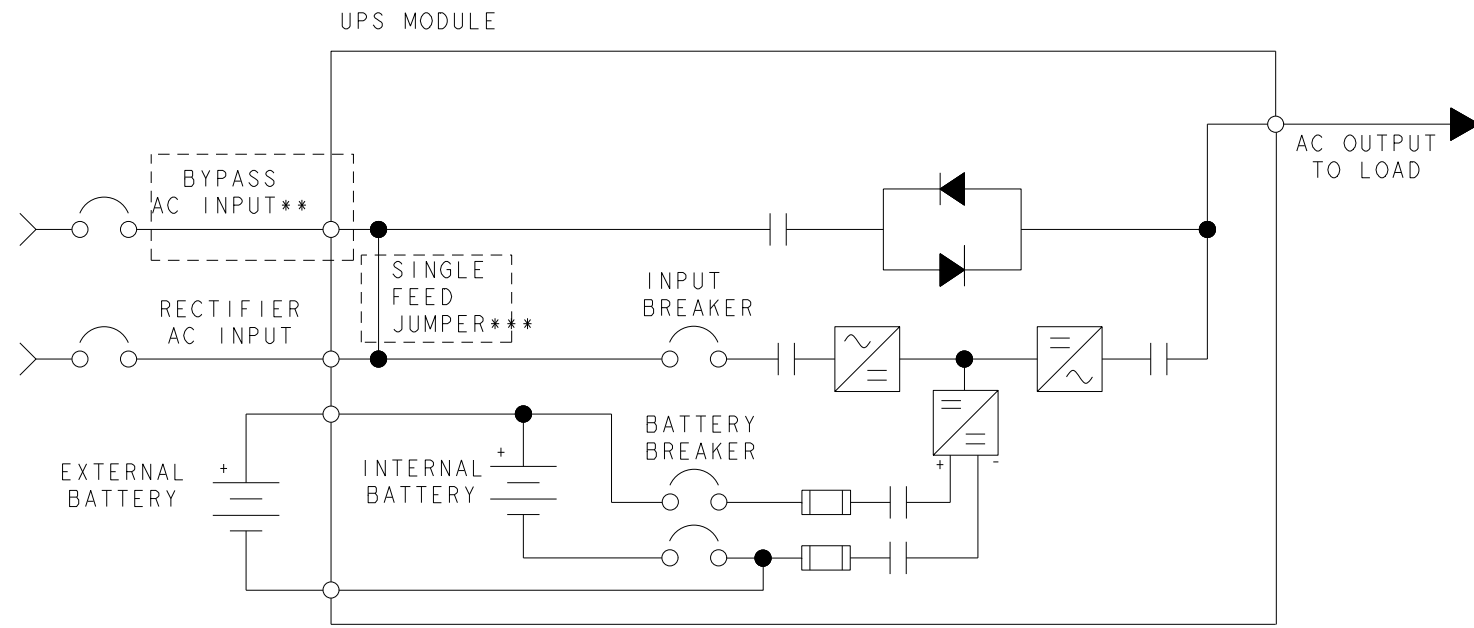
INSTALLED WEIGHT AND CENTER OF GRAVITY				
UPS CONFIGURATION	A MM [IN.]	B MM [IN.]	C MM [IN.]	WEIGHT KG [LBS.]
93E-30/20 & 93E-30/30 WITH BATTERIES	477 [17.78]	399 [15.71]	259 [10.20]	476 [1049]
93E-20 (REDUCED BATTERIES)	517 [20.35]	399 [15.71]	259 [10.20]	377 [831]



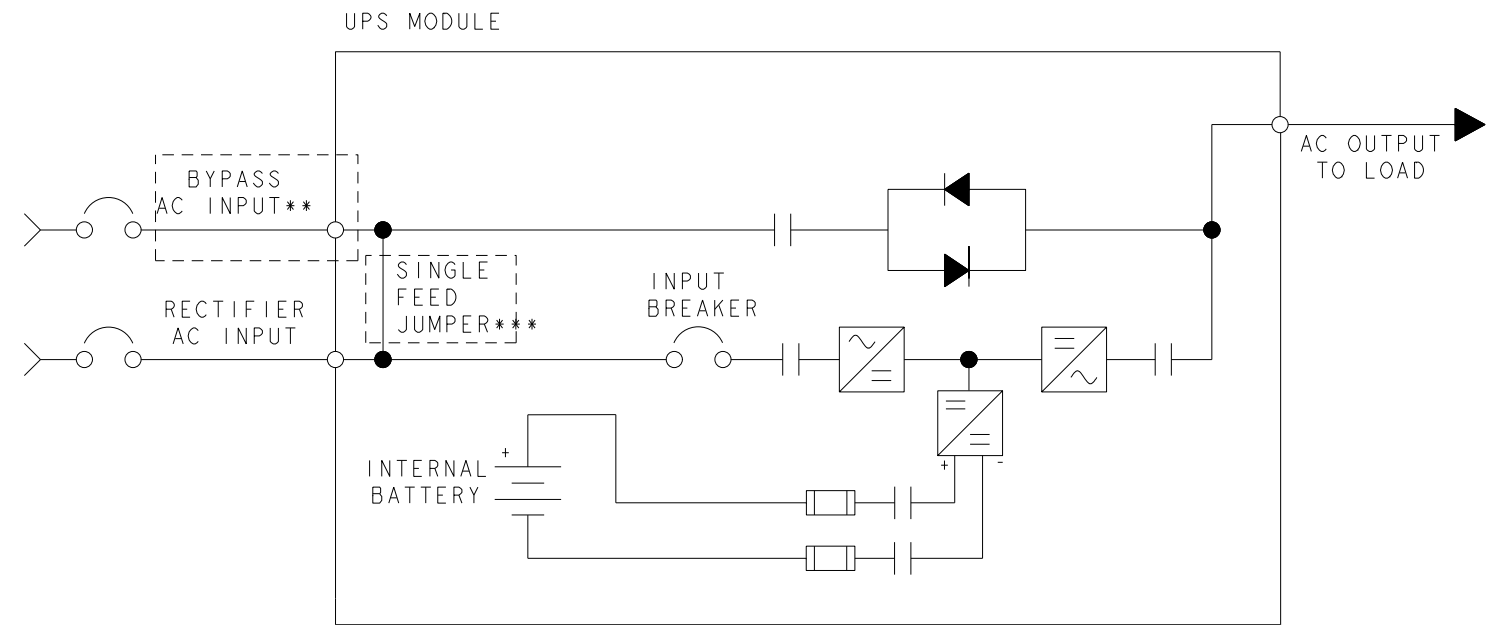
METRIC	THIRD ANGLE PROJECTION	EATON CORPORATION, ELECTRICAL	<b>EATON</b>	SIZE: D
DESCRIPTION: SITE PLAN DWG, 93E 30 UPS GEN 3				
MODIFIED BY: M. Carnes	DATE: 12-SEP-2013	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		SCALE: 1:10
ECO: ECO-054334	STATE: Release	ANGLES: ±1/2°	DECIMALS: 0.X: ±0.75 X, (FOR X < 3): ±1	DO NOT SCALE
PRO-ENGINEER GENERATED		PART NAME: P-110000210		REVISION: 003
				SHEET: 1 of 2

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SCHMATIC  
93E WITH INTERNAL BATTERIES AND EXTERNAL BATTERY CAPABILITY  
(93E-30/20 AND 93E-30/30)



SCHMATIC  
93E WITH INTERNAL BATTERIES ONLY  
(93E-20)



PRODUCT SPECIFICATIONS

UPS RATING		AC INPUT VOLTAGE	AC OUTPUT VOLTAGE	RECTIFIER AC INPUT CURRENT	INVERTER AC OUTPUT CURRENT	MAX HEAT DISSIPATION AT 100% LOAD	BATTERY NAMEPLATE CURRENT (108 CELL, 2.00V/CELL)	MAX BATTERY CURRENT AT END OF DISCHARGING (108 CELL, 1.67V/CELL)
KVA	KW	VAC	VAC	AMP	AMP		AMP	AMP
20	16	208/220	208/220	64/60	56/52	1.36 [4647]	79	95
30	24	208/220	208/220	96/91	83/79	2.04 [6970]	124	142

- \* REFER TO UPS MANUAL FOR TORQUE CONNECTIONS TO UPS
- \*\* INCLUDED WITH DUAL FEED OPTION ONLY
- \*\*\* INCLUDED WITH SINGLE FEED OPTION ONLY

CUSTOMER WIRING

WIRES	ACCEPTED WIRE RANGE	TORQUE RATING *	RECOMMENDED MINIMUM WIRE SIZE FOR 90°C COPPER STRANDED WIRE	
			20 kVA	30 kVA
INPUT PHASE WIRES	14 AWG TO 2/0	12.4 (110)	2 AWG	1/0
INPUT NEUTRAL WIRES	14 AWG TO 2/0 (2X)	12.4 (110)	2 AWG (2X)	1/0 (2X)
BYPASS PHASE WIRE **	14 AWG TO 2/0	12.4 (110)	2 AWG	1/0
BYPASS NEUTRAL WIRE **	14 AWG TO 2/0 (2X)	12.4 (110)	2 AWG (2X)	1/0 (2X)
OUTPUT PHASE WIRES	14 AWG TO 2/0	12.4 (110)	2 AWG	1/0
OUTPUT NEUTRAL WIRE	14 AWG TO 2/0 (2X)	12.4 (110)	2 AWG (2X)	1/0 (2X)
BATTERY WIRES	6 AWG TO 350 MCM	31.1 [275]	2 AWG	1/0
GROUND WIRES	14 AWG TO 1/0	5.1 (45)	6 AWG	6 AWG

SITE PLAN DRAWINGS  
93E 30 ACCESSORIES

PART NUMBER	DESCRIPTION
P-110000019	93E-30 EBC
P-110000026	93E-30 IDC
P-110000028	93E-30 TIE
P-110000030	93E-30 TIE W/MBP
P-110000032	93E-30 MBP
P-110000068	93E-30 ITC
P-110000207	93E-30 MBS SC

METRIC		EATON CORPORATION, ELECTRICAL		SIZE: D
DESCRIPTION: SITE PLAN DWG, 93E 30 UPS GEN 3				
MODIFIED BY: M. Carnes	DATE: 12-SEP-2013	UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE:	SCALE: 2:25	
ECO: ECO-054334	STATE: Release	ANGLES: ±1/2°	DECIMALS: 0.X; 0.0.75 X, (FOR X < 3); ±1	DO NOT SCALE
PRO-ENGINEER GENERATED		MOLES: ±0.13	0.XX; 0.0.25 X, (FOR X > 3); ±2.5	DRAWING OR CHANGE MANUALLY
PART NAME: P-110000210		DIMENSIONS ARE IN MILLIMETERS (INCHES) AND AFTER PLATING		SHEET: 2 of 2
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