



- ☒ 1) CAST TOLERANCES TO BE +/- .020, UNLESS OTHERWISE SPECIFIED.
- ☒ 2) MACHINING TOLERANCES +/- .020, UNLESS OTHERWISE SPECIFIED.
- ☒ 3) SHIFT ABOUT THE PARTING LINE NOT TO EXCEED +/- .010.
- ☒ 4) ANGULAR DIMENSIONS TO HAVE A TOLERANCE OF +/- 1 DEGREE.
- ☐ 5) CRITICAL DIMENSIONS ARE INDICATED AS FOLLOWS:
 - ☐ FR FUNCTIONAL REQUIREMENT
 - ☐ TR TOOLING REQUIREMENT
- ☒ 6) UNLESS OTHERWISE INDICATED OUTSIDE DIMENSIONS INCREASE, INSIDE DIMENSIONS DECREASE, DUE TO DRAFT. EXCEPTIONS WILL BE NOTED ON AND INDIVIDUAL BASIS:
 - <D DEDUCT MATERIAL FOR DRAFT
 - >A ADD MATERIAL FOR DRAFT
- ☒ 7) DRAFTS TO BE 2 DEGREES MAXIMUM FOR MOLD SURFACES AND 2 DEGREES FOR CORES.
- ☒ 8) ALL RADII AND FILLETS TO BE .030 INCHES UNLESS OTHERWISE SPECIFIED.
- ☒ 9) MARKING (IN FORM OF FULL TEXT OR A REPRESENTATIVE CODE) IN A PERMANENT METHOD THAT REPRESENTS PART, REV DATE CODE AND NAME PLATE OR CAVITY NUMBER (WHEN APPLICABLE), TO APPEAR AS FOLLOWS IN AREA SHOWN IN EITHER METHOD CHECKED:

- ☐ INK OR OTHER "SURFACE" PERMANENT METHOD
☐ RAISED LETTERS OR RECESS
☐ DEPRESSED LETTERS
☒ PART SIZE OR USAGE MAKE THEM NOT CONDUSIVE TO FULL
 INDIVIDUAL PART MARKING SO THE MARKING TO BE DONE ON PACKAGING OF
 PARTS (BAGS, BOXES, ETC) EXACT METHOD TO BE DEVELOPED WITH
 SUPPLIER.

10)  AND  INDICATE LOCATING PADS FOR S&C MACHINING. NO GATES, RISERS OR GRINDING ALLOWED IN THESE AREAS. DEVIATIONS REQUIRE PRIOR R&D AND MANUFACTURING ENGINEERING APPROVAL.


11) CAST SURFACES TO BE 125 SURFACE FINISH MAXIMUM (BEFORE PLATING) UNLESS OTHERWISE SPECIFIED. THESE PARTS ARE BEING MOLDED INTO A CERAMIC BODY AND WILL HAVE MEDIUM-VOLTAGES APPLIED TO THEM – AS SUCH, ANY SMALL, SHARP EDGES, RIDGES, OR FLASHING WILL CAUSE SIGNIFICANT MECHANICAL STRESSES IN THE CERAMIC BODY AS WELL AS ELECTRICAL STRESS CONCENTRATIONS FROM THE MEDIUM VOLTAGES. IF THE 125 SURFACE CANNOT BE ACHIEVED FROM THE CASTING PROCESS, THEN A SECONDARY OPERATION WILL BE NECESSARY TO ENSURE THE SURFACE FINISH. SEE NOTE F3.

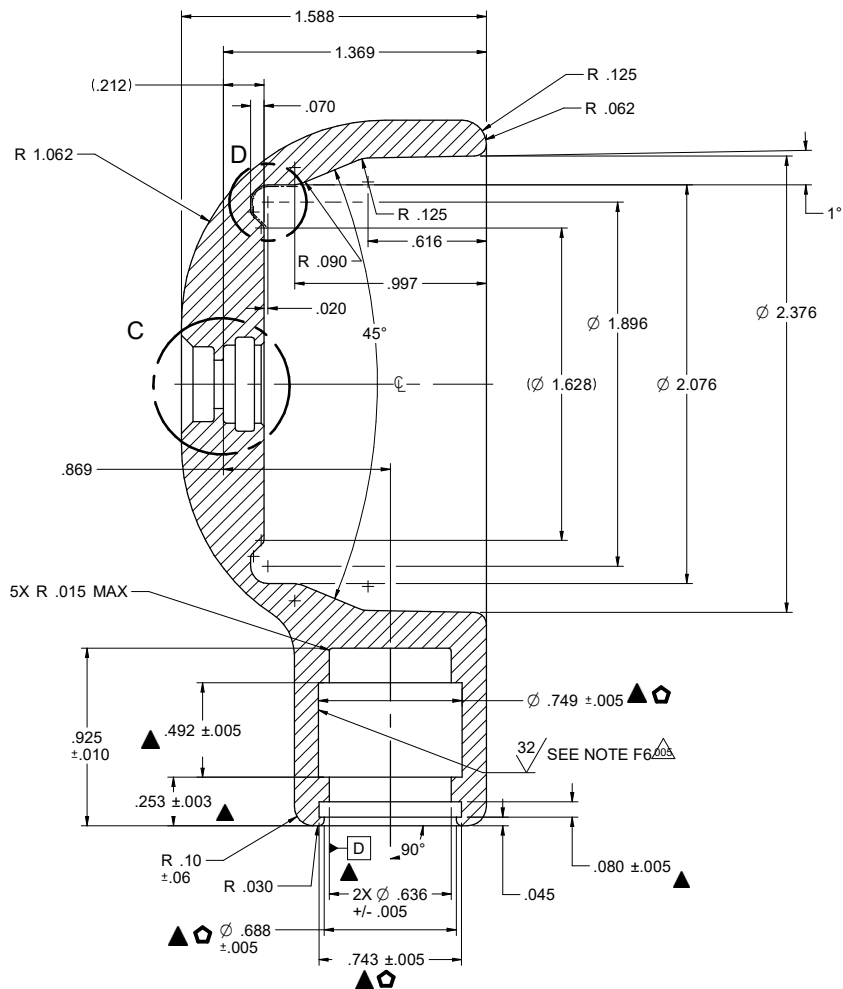
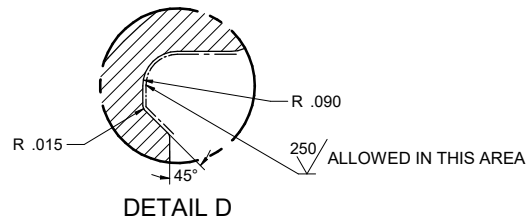
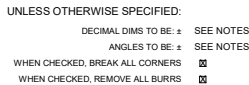
12) THIS DRAWING MADE IN ACCORDANCE WITH S&C SPECIFICATION BULLETIN DSP-1065 ON CASTING DESIGN.

13) CASTING WILL BE INSPECTED IN ACCORDANCE WITH S&C SPECIFICATION BULLETIN ISP-3259 ON CASTING INSPECTION.



14) CASTING MUST REPRESENT GOOD FOUNDRY PRACTICE. SHRINKS, CRACKS, HOT TEARS, COLD SHUNTS OR OTHER DEFECTS WHICH EFFECT THE STRUCTURAL SOUNDNESS OR APPEARANCE OF THE CASTING BEYOND NADCA POROSITY LEVEL 3 PROVIDE CAUSE FOR REJECTION OF THE PART.

15) ADDITIONAL REQUIREMENTS, IF NECESSARY, PERTINENT TO THIS CASTING WILL BE NEGOTIATED WITH THE VENDOR AND NOTED ON THIS DRAWING.

F1. ▲ DENOTES CONTROL ATTRIBUTE
F2. DIMENSIONS ARE AFTER PLATING
▲ F3. EXTERIOR TO BE FREE FROM SHARP EDGES AND RIDGES. SMOOTH ALL CORNERS, SHARP EDGES AND TRANSITIONS FROM CAST SURFACES TO MACHINED SURFACE SEE NOTE 11.
F4. PURPLE AREAS IN ISOMETRIC VIEW ARE MACHINED SURFACES FOR REFERENCE. OTHER SURFACES MAY BE MACHINED AS REQUIRED TO MEET DRAWING SPECIFICATIONS.
▲ F5. FEATURES ON THE COMMON AXIS OF DATUMS "A", "C" AND "D" RESPECTIVELY (IDENTIFIED WITH SYMBOL ▲) ARE TO HAVE THE SAME CENTERLINE WITHIN $\phi .010$.
F6. SURFACE FINISH OF 32 SHOWS IS BEFORE PLATING. AFTER PLATING, THAT SURFACE FINISH CANNOT EXCEED 125. 



REVISIONS				REV BY
NO.	ECO NO.	DATE		
000	CA619141	6/21/2021	TJD	
001	CA620968	7/20/2021	TJD	
002	CA621223	8/4/2021	TJD	
003	CA623063	11/9/2021	TJD	
004	CA625885	5/9/2022	TJD	
005	CA627865	9/15/2022	TJD	

DRAWING NO. CV-1014-4	MATERIAL	FINISH	DRAWING SIZE	DRAWN BY	 S&C ELECTRIC COMPANY Excellence Through Innovation	DESCRIPTION	SHEET 1 OF 1		
	ALUMINUM CASTING ALLOY: 356T-6 OR A356T-6	TIN PLATE MATTE FINISH 0002 MINIMUM THICK PER ASTM B545 CL C	D	TOM.DYER				 S&C ELECTRIC COMPANY Excellence Through Innovation	CONDUCTOR; VACUUM INTERRUPTER FIXED END SHIELD
			SCALE	ORIGINATION DATE					
			NONE	6/21/2021					
			PROJECTION	UNITS					
PROPRIETARY STATEMENT THIS DOCUMENT AND ALL PREVIOUS ISSUES ARE THE SECRET AND CONFIDENTIAL PROPERTY OF S&C ELECTRIC COMPANY. IT IS NOT TO BE REPRODUCED, COPIED, LOANED, RENTED, SOLD, TRANSFERRED, OR OTHERWISE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF S&C ELECTRIC COMPANY. ANY UNAUTHORIZED USE OF THIS DOCUMENT IS PROHIBITED. THE USER AGREES TO HOLD S&C ELECTRIC COMPANY HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE INCURRED BY S&C ELECTRIC COMPANY AS A RESULT OF SUCH UNAUTHORIZED USE. THE USER ALSO AGREES TO INDEMNIFY AND HOLD S&C ELECTRIC COMPANY HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE INCURRED BY S&C ELECTRIC COMPANY AS A RESULT OF SUCH UNAUTHORIZED USE. THIS DOCUMENT IS PROVIDED UNDER THE EXPRESS CONDITION THAT IT WILL BE HELD IN CONFIDENCE BY THE RECIPIENT THAT IT IS SUBJECT TO IMMEDIATE DEMAND, AND THAT IT WILL NOT BE USED IN ANY WAY DETRIMENTAL TO S&C ELECTRIC COMPANY.					INCHES				
NEXT ASSEMBLY CVA-1015-9 & CVA-1039-2									
PRODUCT DESCRIPTION EDGERESTORE							DRAWING NO. CV-1014-4		