



AEROSPACE STANDARD

AS 970

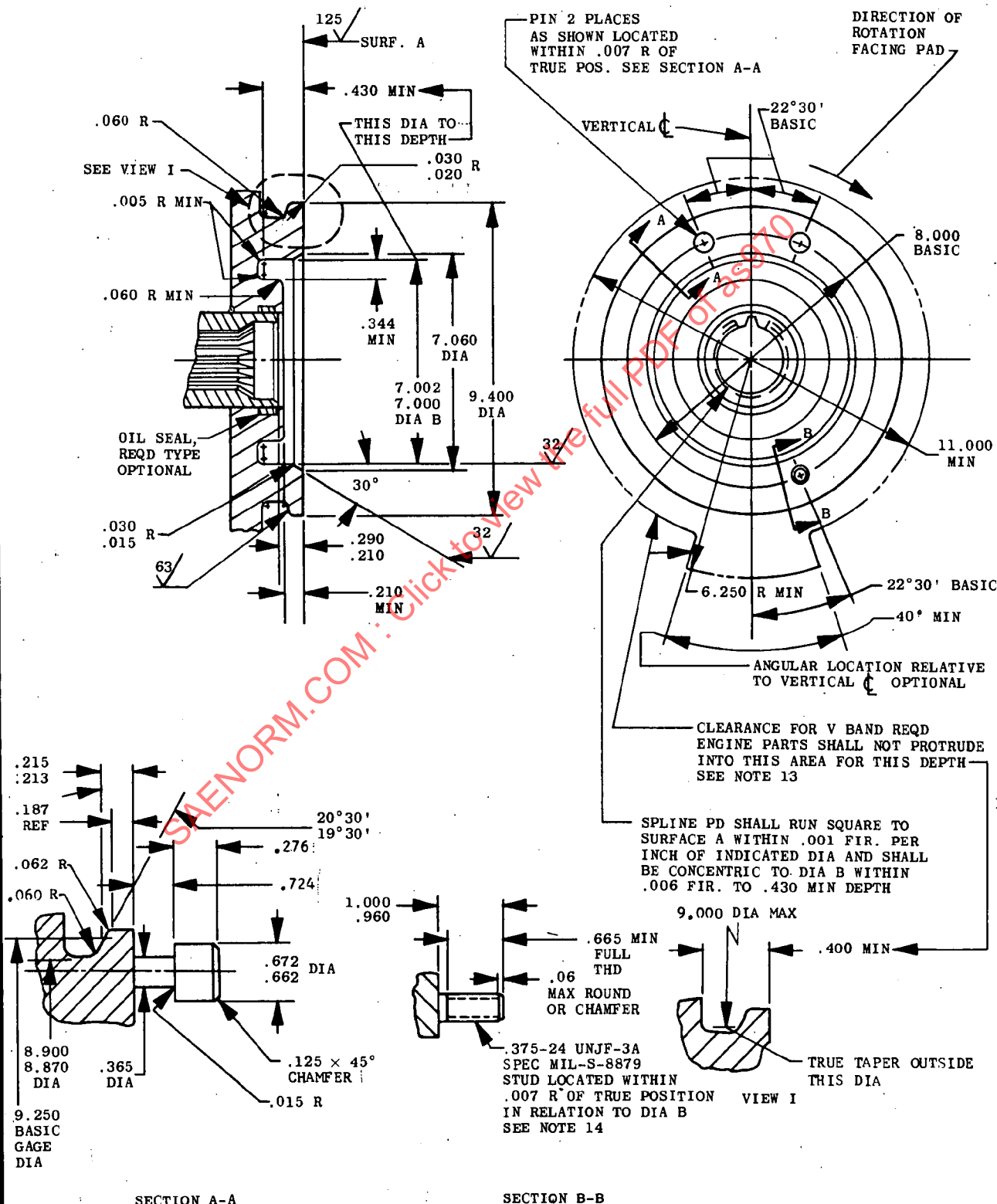
SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

485 Lexington Ave., New York, N.Y. 10017

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Revised

DRIVE - ACCESSORY, 8.000 BC ROUND, QAD, DESIGN STANDARD FOR



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VARIABLE SPEED (ELECTRICAL EQUIPMENT)					
DASH NO.	RATED POWER HP	RATED SPEED RPM $\pm 5\%$	SPLINE SIZE PD	ACCESSORY	
				WEIGHT LB MAX	STATIC OVERHUNG MOMENT LB IN. MAX
-1V	30	8000	0.800	80	750
-2V	30	12000	0.800	100	1200
-3V	40	8000	1.200	115	1250
-4V	65	8000	1.200	150	2000

VARIABLE SPEED-CONSTANT TORQUE (FLUID POWER PUMPS)					
DASH NO.	RATED TORQUE LB IN.	RATED SPEED RPM $\pm 5\%$	SPLINE SIZE PD	ACCESSORY	
				WEIGHT LB MAX	STATIC OVERHUNG MOMENT LB IN. MAX
-1CT	4000	4000	1.625	125	600
-2CT	4000	6000	1.625	125	600

CONSTANT SPEED DRIVE OUTPUT					
DASH NO.	RATED POWER HP	RATED SPEED RPM	SPLINE SIZE PD	ACCESSORY	
				WEIGHT LB MAX	STATIC OVERHUNG MOMENT LB IN. MAX
-1CS	15	8000	0.800	50	250
-2CS	30	8000	0.800	65	350
-3CS	30	12000	0.800	50	250
-4CS	45	6000	0.800	75	500
-5CS	45	8000	0.800	75	500

STARTER DRIVE					
DASH NO.	RATED TORQUE LB FT	RATED SPEED RPM $\pm 10\%$	SPLINE SIZE PD	ACCESSORY	
				WEIGHT LB MAX	STATIC OVERHUNG MOMENT LB IN. MAX
-1S	600	3300	1.200	80	800
-2S	1200	3300	1.625	120	1300

1. SPEED: THE RATED SPEED OF THE TYPES V, CT AND CS DRIVES SHALL BE PROVIDED WHEN THE POWER SOURCE IS OPERATING AT THE HIGHEST STABILIZED SPEED AT ANY OPERATING CONDITION.

THE TOLERANCE OF THE RATED SPEED FOR THE CS DRIVES SHALL BE SPECIFIED IN THE APPLICABLE MODEL SPECIFICATION.

THE RATED SPEED OF THE TYPE S DRIVES SHALL BE THE SPEED ABOVE WHICH THE ENGINE WILL ACCELERATE TO IDLE SPEED AT SEA LEVEL STANDARD CONDITIONS WITHOUT ASSISTANCE FROM THE STARTER.

2. STRENGTH: THE TYPE V, CT AND CS DRIVES SHALL BE CAPABLE OF DELIVERING RATED POWER, OR TORQUE CONTINUOUSLY FROM GROUND IDLE TO MAX POWER SOURCE SPEED. THEY SHALL ALSO WITHSTAND AN INSTANTANEOUS TORQUE EQUIVALENT TO FIVE TIMES THE RATED POWER OR TORQUE AT ANY ENGINE SPEED WITHOUT PERMANENT DEFORMATION OR FAILURE. THESE TORQUE VALUES SHALL BE SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION.

THE TYPE S DRIVES SHALL BE CAPABLE OF WITHSTANDING THE RATED TORQUE CONTINUOUSLY FROM REST TO RATED SPEED. THEY SHALL ALSO WITHSTAND AN INSTANTANEOUS TORQUE OF TWO TIMES THE RATED TORQUE WITHOUT PERMANENT DEFORMATION OR FAILURE.

3. DRIVE SHAFT: DETAILS OF DRIVE SHAFT AND SPLINE DESIGN DATA ARE SHOWN ON AS972.
4. JAW: PROVISION FOR ATTACHING JAW ADAPTER TO THE TYPE S SHAFT SHALL BE PROVIDED WHEN SPECIFIED IN THE POWER SOURCE MODEL SPECIFICATION.
5. LUBRICATION: SPLINE LUBRICATION SHALL BE PROVIDED. TYPE OF LUBRICANT SHALL BE SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION.
6. OIL LEAKAGE: OIL LEAKAGE OUT OF THE DRIVE SHALL NOT EXCEED 3 CC PER HOUR. PROVISIONS FOR DRAINING OIL FROM THE DRIVE CAVITY SHALL BE SUPPLIED.
7. COVER: AS 3042 IS SUITABLE FOR THIS DRIVE.
8. ACCESSORY SPACE: SPACE AVAILABLE FOR ACCESSORIES SHALL BE SHOWN ON THE POWER SOURCE INSTALLATION DRAWING.