SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

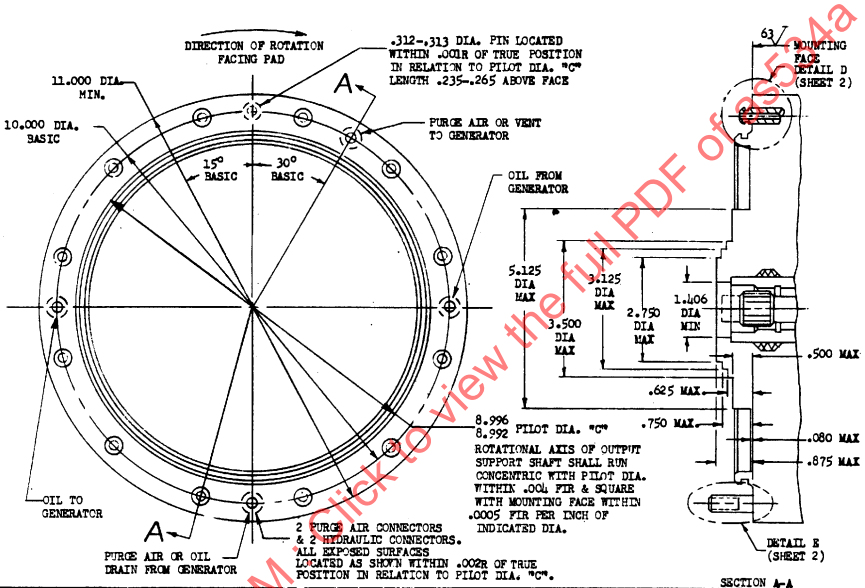
AEROSPACE STANDARD

SAE AS534

REV. A

Issued 1962-10
Noncurrent 1989-01
Reaf. Noncur. 2001-10

Drive - 3/4 * Generator - 10" BC - Male Pilot



DASH NUMBER	OVERHUNG MOMENT LB.-IN. MAX.	ACCESSORY WEIGHT Lb. Max.	DRIVE TYPE 6000 RPM CONSTANT A6C	B6C	C6C	8000 RPM CONSTANT A8C	B8C	OIL FLOW TO GENERATOR Min.	F GPM	Max.
			HP 65 (40KVA)	190(120KVA)	250 (160KVA)	95 (60KVA)	250 (160 KVA)			
1	760	115	X					4.5		7
2	560	110				X		6.5		9.5
3										
4										
5	1100	170		X				13		17
6	1500	240			X		X	16		21

WHERE AN X APPEARS THE DRIVE TYPE AND DASH NUMBER ARE TYPICAL AND PREFERRED.
SEE SHEET 2 FOR SPLINE AND OIL TRANSFER CONNECTOR DETAILS.
THE OVERHUNG MOMENT AND WEIGHT WILL BE DESIGNATED BY A DASH NUMBER IN THE DRIVE CALL-OUT PER ABOVE TABULATION.
EXAMPLE: AS 534-1 IS A 65 HP DRIVE WITH A 760 LB.-IN. MAX. OVERHUNG MOMENT AND A 115 LB. MAX. ACCESSORY WEIGHT.
SPEED: TYPE 6C DRIVES SHALL BE 6000 (CONSTANT) RPM FROM GROUND IDLE TO MAXIMUM POWER SOURCE SPEED.
TYPE 8C DRIVES SHALL BE 8000 (CONSTANT) RPM FROM GROUND IDLE TO MAXIMUM POWER SOURCE SPEED.
STRENGTH: THE DRIVES SHALL BE CAPABLE OF DELIVERING RATED POWER CONTINUOUSLY FROM GROUND IDLE TO MAX POWER SOURCE SPEED.
THEY SHALL ALSO WITHSTAND A STATIC TORQUE EQUIVALENT TO FIVE (5) TIMES RATED POWER AT GROUND IDLE SPEED WITHOUT FAILURE OR PERMANENT DEFORMATION. THE CONTINUOUS AND STATIC TORQUE VALUES SHALL BE SPECIFIED IN THE POWER SOURCE MODEL SPECIFICATION.
NOMINAL USE: TO DELIVER POWER TO CONSTANT SPEED ACCESSORIES, BUT IS NOT INTENDED FOR AIRCRAFT ENGINE.
OIL TO GENERATOR: 1. TEMPERATURE 300° F MAXIMUM.
2. FLOW: DRIVE SHALL SUPPLY F GPM AT ALL PRESSURES BELOW AND INCLUDING 150 PSIG.
3. RELIEF PRESSURE: 200 PSID MAX - 150 PSID MIN.
4. EXHAUST PORT PRESSURE 25 PSIG MAX.
OIL SUPPLY HOLES MAY BE OMITTED WHEN SO SPECIFIED IN THE SYSTEM MODEL SPECIFICATION.
LOCATING PIN MAY BE OMITTED WHEN SO SPECIFIED IN THE SYSTEM MODEL SPECIFICATION.
HOLES FOR SUPPLYING AIR TO THE GENERATOR SHALL NOT BE PROVIDED UNLESS SPECIFIED IN THE SYSTEM MODEL SPECIFICATION. THE REQUIRED AIR PRESSURE AND FLOW AND SIZE OF AIR SUPPLY AND DRAIN HOLES SHALL BE SHOWN ON THE GENERATOR INSTALLATION DRAWING.
PROVISIONS SHALL BE MADE FOR DRAINING OIL TO 4.187 RAD MIN AND FOR DRAINING OIL FROM SLINGER AREA INDICATED ON SHEET 2.
PILOT "O" RING SIZE: CROSS SECTION, .135-.143; ID ACTUAL, 8.704 - 8.764; OD NOMINAL, 9.000
FERRULE "O" RING SIZE: CROSS SECTION, .063 - .073; ID ACTUAL, .296 - .306; OD NOMINAL, .438
WHEN PILOT SEAT IS NOT REQUIRED THE "O" RING MAY BE REMOVED.
COVER: SHALL BE FURNISHED ON THIS DRIVE WHEN SPECIFIED IN POWER SOURCE MODEL SPECIFICATION.
REMOVE ALL BURRS AND SHARP EDGES. SURFACE ROUGHNESS SYMBOLS, AS 291 (AA).
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010, ANGLES ± 2°.
FOR DETAILS OF FLANGE SEE AS 535.
THIS DRAWING COMPLETELY DEFINES THE DESIGN REQUIREMENTS. THIS IS A DESIGN STANDARD AND IS NOT TO BE USED AS A PART NUMBER.
*DRIVE END OF GENERATOR SHAFT IS SUPPORTED BY DRIVE SHAFT.

TO PLACE A DOCUMENT ORDER: (724) 776-4970 FAX: (724) 776-0790 SAE WEB ADDRESS: http://www.sae.org