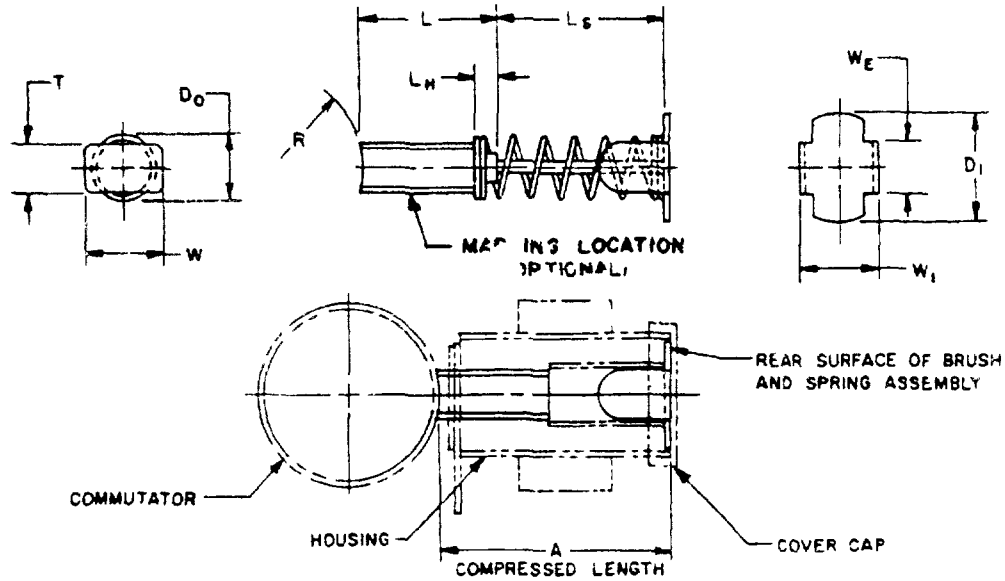


PROJECT 5977-F034

FED SUP CLASS
5977

USER ACTIVITIES



NOTES

- 1 BRUSH MARKING EACH BRUSH SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-1285, WITH A LINE OR GROOVE INDICATING THE POINT OF 75% WEAR, AND WITH THE GRADE OF BRUSH MATERIAL USED
- 2 THERE SHALL BE TWO CLOSED TURNS AT EACH END OF THE SPRING
- 3 ALL BRUSHES SHALL BE CHAMFERED AS FOLLOWS

BRUSH THICKNESS OR WIDTH (WHICHEVER IS SMALLER)	CHAMFER DEPTH
250 OR LESS	010 ⁺⁰⁰⁵ ₋₀₀₀
OVER .250 BUT LESS THAN .375	032 ⁺⁰¹⁶ ₋₀₀₀
375 TO 625 INCLUSIVE	062 ⁺⁰³² ₋₀₀₀
- 4 ALL SHUNT TERMINALS SHALL BE HOT-TINNED
- 5 THE MAXIMUM LENGTH OF THE TERMINAL-LUG EARS SHALL NOT EXCEED THE SOLID COMPRESSED LENGTH OF THE SPRING
- 6 REFERENCED SPECIFICATIONS AND STANDARDS SHALL BE OF THE ISSUE IN EFFECT ON THE DATE OF INVITATION FOR BIDS
- 7 BRUSH MATERIAL ALTITUDE TREATED CARBON TYPE STACKPOLE CARBON CO No 51
 SPRING MATERIAL BERYLLIUM COPPER PER MIL-C-6941
 SHUNT COPPER BRAIDED PER QQ-W-361A
 CAP, SPRING BRASS PER QQ-B-613 OR COPPER PER QQ-C-530
- 8 THE SPRING SHALL BE DESIGNED TO GIVE A BRUSH PRESSURE OF 4lb_f/in² TO 6lb_f/in² WHEN INSTALLED AS SHOWN THROUGHOUT THE LIFE OF THE BRUSH
- 9 THE SHUNT SHALL HAVE A MINIMUM CROSS-SECTIONAL AREA OF 1000 CIRCULAR MILS
- 10 DIMENSIONS IN INCHES

(B) ENTIRE STANDARD REVISED

REVIEWED BY: AF 80
D9A-G3

This military standard is approved by the AFIL/Engineering and Technical Support Division, Department of the Air Force and shall be used by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 4 JUNE 1956 REVISED (B) 1 MAY 1976

P A AF-85 Other Cost	INTERNATIONAL INTEREST	TITLE BRUSH-ELECTRICAL CONTACT, DYNAMOTOR LOW VOLTAGE	MILITARY STANDARD MS24220(USAF)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES AF DWG 56C12696	SHEET 1 OF 2	

DD FORM 672-1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT 5977-F034

FED SUP CLASS
5977

USER ACTIVITIES

MS PART NUMBER		A ± 032	L ± 032	W +000 -004	T +000 -004	LH HEAD LENGTH +016 -000	R RAD ±5%	D ₀ DIA +000 -008	L _s +125 -000	D _i DIA +000 -008	W _i +000 -008	W _E ± 016
MS 24220-1	(a)	1100	656	375	250	093	437	310	812	500	375	250
MS 24220-2	(a)	1125	562	312	187	062	460	254	1000	385	312	166
MS 24220-3	(a)	1125	625	437	218	062	468	343	1000	500	435	125
MS 24220-4	(b)	1125	812	468	250	062	688	375	1000	562	468	240

- (a) ARC27 DYNAMOTOR LV BRUSHES
- (b) DY63/ARC33 DYNAMOTOR LOW CURRENT BRUSHES

REVIEWER ACTIVITIES

AF-80
DSA-GS

INCHES	MM	INCHES	MM	INCHES	MM
063	1 57	310	7 87	500	12 70
093	2 36	312	7 92	562	14 27
125	3 14	345	8 71	625	15 88
166	4 18	375	9 53	656	16 66
187	4 75	385	9 78	688	17 48
218	5 54	435	11 05	812	20 62
240	6 10	437	11 10	1000	25 40
250	6 35	460	11 68	1100	27 94
254	6 45	468	11 89	1125	28 58

METRIC EQUIVALENTS (TO THE NEAREST 01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM

This military standard is approved by the AFEL/Engineer and Technical Support Division, Department of the Air Force and shall be used in that activity. All other military activities are required to employ this standard where suitable.

APPROVED 4 JUNE 1956 REVISED (B) ENTIRE STANDARD REVISED

P A AF-85 Other Cont	INTERNATIONAL INTEREST	TITLE BRUSH-ELECTRICAL CONTACT, DYNAMOTOR LOW VOLTAGE	MILITARY STANDARD MS24220(USAF)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	AF DWG 56C12696	SHEET 2 OF 2