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MS27640 — heavy duty

Airframe Bearing, Antifriction, Heavy Duty: dimensions and part numbers as tabulated.



MS27640

Specification

Item	Value
Type	Airframe bearing, antifriction
Material	Airframe antifriction bearing
Status	Check the current issue of the standard before design use.

Dimensions by size

Dimension, in	-3A	-4	-5	-6
B — bore (+.0000 / -.0005)	.1900	.2500	.3125	.3750
D — outside diameter (+.0000 / -.0005)	.6250	.9014	1.2500	1.4375
W — width of inner ring (+.000 / -.005)	.245	.484	.558	.620
H — width of outer ring (+.000 / -.005)	.203	.335	.375	.469
A — shoulder diameter, inner (approx.)	.280	.390	.469	.591
E — inner ring bore chamfer (+.015 / -.000)	.005	.005	.005	.015
C — outer ring OD chamfer (+.015 / -.000)	.010	.032	.032	.032
Radial limit — Radial limit load, lb	1880	2680	5620	7910
Thrust limit — Thrust limit load, lb	900	1200	2500	3500
Rating, Case I — Radial load rating, lb, Case I (avg. life 10,000 complete 90° cycles)	1700	2410	4900	6540
Rating, Case II — Radial load rating, lb, Case II (avg. life 10,000 complete 90° cycles)	1450	2030	3970	5410

Dimensions in inches, loads in pounds, as tabulated; tolerances in the dimension names.

Part numbers

Part no.	Size	Mfg. P/N (as listed)
MS27640-3A	.1900	KP3L
MS27640-4	.2500	KP4
MS27640-5	.3125	KP5
MS27640-6	.3750	KP6

Dash numbers of the standard, each with its own link.

How to read the part number

Part	Meaning
Format	MS27640-<dash>
Example	MS27640-3A — dash 3A

Notes

- Case I and Case II are the two radial load rating columns of the listing, for an average life of 10,000 complete 90° cycles.
- Part numbers of the manufacturer (Mfg. P/N) are given as listed.
- Bore tolerance and outer diameter tolerance as in the headings; the width tolerances of the listing are shown against W and H.

SOURCES · MS27640 — Airframe Bearing, Antifriction, Heavy Duty

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/bearings/ms27640/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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