

# KOYO SB1240 deep groove ball bearings

Can't find what you're 25 Outer Diameter (mm) looking for KOYO SB1240 deep groove ball bearings ? Our 47 Bore Diameter (mm) expert 47x25x12 Size (mm) Representatives be in contact with you shortly!

|                               |          |
|-------------------------------|----------|
| Size (mm)                     | 47x25x12 |
| Bore Diameter (mm)            | 47       |
| Outer Diameter (mm)           | 25       |
| Width (mm)                    | 12       |
| d                             | 25 mm    |
| D                             | 47 mm    |
| B                             | 12 mm    |
| d1                            | 32.1 mm  |
| d2                            | 32.1 mm  |
| D1                            | 39.9 mm  |
| r1,2 – min.                   | 0.6 mm   |
| r3,4 – min.                   | 0.3 mm   |
| a                             | 14.5 mm  |
| da – min.                     | 28.2 mm  |
| db – min.                     | 28.2 mm  |
| Da – max.                     | 43.8 mm  |
| Db – max.                     | 45 mm    |
| ra – max.                     | 0.6 mm   |
| rb – max.                     | 0.3 mm   |
| dn                            | 33.4 mm  |
| Basic dynamic load rating – C | 9.2 kN   |

|                                       |              |
|---------------------------------------|--------------|
| Basic static load rating – C0         | 5 kN         |
| Fatigue load limit – Pu               | 0.212 kN     |
| Limiting speed for grease lubrication | 40000 r/min  |
| Limiting speed for oil lubrication    | 60000 mm/min |
| Ball – Dw                             | 6.35 mm      |
| Ball – z                              | 14           |
| Gref                                  | 1.02 cm3     |
| Calculation factor – e                | 0.68         |
| Calculation factor – Y2               | 1.41         |
| Calculation factor – Y0               | 0.76         |
| Calculation factor – X2               | 0.67         |
| Calculation factor – Y1               | 0.92         |
| Preload class A – GA                  | 60 N         |
| Preload class B – GB                  | 120 N        |
| Preload class C – GC                  | 240 N        |
| Preload class D – GD                  | 480 N        |
| Calculation factor – f                | 1.05         |
| Calculation factor – f1               | 0.99         |
| Calculation factor – f2A              | 1            |
| Calculation factor – f2B              | 1.02         |
| Calculation factor – f2C              | 1.05         |
| Calculation factor – f2D              | 1.08         |
| Calculation factor – fHC              | 1.02         |
| Preload class A                       | 71 N/micron  |
| Preload class B                       | 92 N/micron  |
| Preload class C                       | 119 N/micron |
| Preload class D                       | 159 N/micron |
| r1,2 min.                             | 0.6 mm       |
| r3,4 min.                             | 0.3 mm       |

|  |                      |
|--|----------------------|
| da min.                                  | 28.2 mm              |
| db min.                                  | 28.2 mm              |
| Da max.                                  | 43.8 mm              |
| Db max.                                  | 45 mm                |
| ra max.                                  | 0.6 mm               |
| rb max.                                  | 0.3 mm               |
| Basic dynamic load rating C              | 9.23 kN              |
| Basic static load rating C0              | 5 kN                 |
| Fatigue load limit Pu                    | 0.212 kN             |
| Attainable speed for grease lubrication  | 40000 r/min          |
| Attainable speed for oil-air lubrication | 60000 r/min          |
| Ball diameter Dw                         | 6.35 mm              |
| Number of balls z                        | 14                   |
| Reference grease quantity Gref           | 1.02 cm <sup>3</sup> |
| Preload class A GA                       | 60 N                 |
| Static axial stiffness, preload class A  | 71 N/µm              |
| Preload class B GB                       | 120 N                |
| Static axial stiffness, preload class B  | 92 N/µm              |
| Preload class C GC                       | 240 N                |
| Static axial stiffness, preload class C  | 119 N/µm             |
| Preload class D GD                       | 480 N                |
| Static axial stiffness, preload class D  | 159 N/µm             |
| Calculation factor f                     | 1.05                 |
| Calculation factor f1                    | 0.99                 |
| Calculation factor f2A                   | 1                    |
| Calculation factor f2B                   | 1.02                 |
| Calculation factor f2C                   | 1.05                 |
| Calculation factor f2D                   | 1.08                 |
| Calculation factor fHC                   | 1.02                 |

|   |         |
|---|---------|
| Calculation factor e                                  | 0.68    |
| Calculation factor (single, tandem) Y2                | 0.87    |
| Calculation factor (single, tandem) Y0                | 0.38    |
| Calculation factor (single, tandem) X2                | 0.41    |
| Calculation factor (back-to-back, face-to-face)<br>Y1 | 0.92    |
| Calculation factor (back-to-back, face-to-face)<br>Y2 | 1.41    |
| Calculation factor (back-to-back, face-to-face)<br>Y0 | 0.76    |
| Calculation factor (back-to-back, face-to-face)<br>X2 | 0.67    |
| Mass bearing  | 0.07 kg |