



HM 803146/110

SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

Normal and CL7C, CLN, Normal and CL, deviating width

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

HM 803100



DIMENSIONS

| | |
|------------------|-------------|
| d | 41.275 mm |
| D | 88.9 mm |
| T | 30.162 mm |
| d ₁ | ≈ 69 mm |
| B | 29.37 mm |
| C | 23.02 mm |
| r _{1,2} | min. 3.5 mm |
| r _{3,4} | min. 3.3 mm |
| a | 25.497 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|--------------|
| d _a | max. 53 mm |
| d _b | min. 54 mm |
| D _a | min. 70 mm |
| D _a | max. 77.5 mm |



| | |
|-------|-------------|
| D_b | min. 84 mm |
| C_a | min. 4 mm |
| C_b | min. 7 mm |
| r_a | max. 3.5 mm |
| r_b | max. 3.3 mm |

CALCULATION DATA

| | | |
|---------------------------|-------|------------|
| Basic dynamic load rating | C | 116 kN |
| Basic static load rating | C_0 | 127 kN |
| Fatigue load limit | P_u | 14.6 kN |
| Reference speed | | 6000 r/min |
| Limiting speed | | 7500 r/min |
| Calculation factor | e | 0.54 |
| Calculation factor | Y | 1.1 |
| Calculation factor | Y_0 | 0.6 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.91 kg |
|--------------|---------|

More information

| Product details | Product details | Engineering information | Engineering information | Tools | Tools |
|---------------------------------------|---------------------------------------|---|---|--|--|
| Designs and variants | Designs and variants | Principles of rolling bearing selection | Principles of rolling bearing selection | SimPro Quick | SimPro Quick |
| Bearing data | Bearing data | General bearing knowledge | General bearing knowledge | Bearing Select | Bearing Select |
| Loads | Loads | | | Engineering Calculator | Engineering Calculator |
| Temperature limits | Temperature limits | Bearing selection process | Bearing selection process | LubeSelect for SKF greases | LubeSelect for SKF greases |
| Permissible speed | Permissible speed | Bearing failure and how to prevent it | Bearing failure and how to prevent it | Heater Selection Tool | Heater Selection Tool |
| Design considerations | Design considerations | | | Oil Injection Method Program | Oil Injection Method Program |
| Bearing designations | Bearing designations | | | skf.com/mount | skf.com/mount |
| Designation system | Designation system | | | | |

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