

309-Z

Deep groove ball bearings

Bearing data

Tolerances,

Normal (metric), P6, P5, Normal (inch), Radial internal clearance,

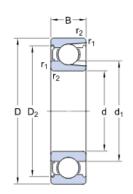
 $\label{eq:matched_pairs} \begin{tabular}{ll} Matched bearing pairs, Stainless steel \\ d < 10 mm, Other bearings \end{tabular}$

Bearing interfaces

Seat tolerances for standard conditions,

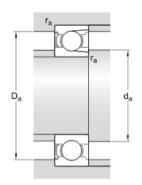
Tolerances and resultant fits

Technical specification



DIMENSIONS

| d | 45 mm |
|------------------|-------------|
| D | 100 mm |
| В | 25 mm |
| d_1 | ≈ 62.18 mm |
| D_2 | ≈ 86.7 mm |
| r _{1,2} | min. 1.5 mm |



ABUTMENT DIMENSIONS

| da | min. 54 mm |
|----------------|-------------|
| d_a | max. 62 mm |
| D _a | max. 91 mm |
| r _a | max. 1.5 mm |



CALCULATION DATA

| Basic dynamic load rating | С | 55 kN |
|---------------------------|----------------|-------------|
| Basic static load rating | C_0 | 44 kN |
| Fatigue load limit | P_{u} | 1.86 kN |
| Reference speed | | 13000 r/min |
| Limiting speed | | 7500 r/min |
| Calculation factor | k _r | 0.05 |

MASS





More information

| Product details | Product details | Engineering ir | nform Landgionn eering in | nformatoten | Tools |
|-----------------------|-----------------------|-----------------------|--------------------------------------|-------------|------------|
| Single | Single | | | Bearing | Bearing |
| row deep | row deep | Principles | Principles | Select | Select |
| groove | groove | of rolling | of rolling | | |
| ball | ball | bearing | bearing | SimPro | SimPro |
| bearings Stainless | bearings Stainless | -selection General | -selection General | Quick | Quick |
| steel | steel | bearing k | bearing k | Engineer | Engineer |
| deep | deep | nowledge | nowledge | ing Calcul | ing Calcul |
| groove | groove | | | ator | ator |
| ball | ball | Bearing | Bearing | LubeSele | LubeSele |
| bearings Single | bearings Single | selection | selection | ct for SKF | ct for SKF |
| row deep | row deep | process | process | greases | greases |
| groove | groove | Bearing | Bearing | Heater | Heater |
| ball | ball | interfaces | interfaces | selection | selection |
| bearings | bearings | | | tool | tool |
| with | with | Seat tole | Seat tole | Rolling | Rolling |
| filling | filling | rances | rances | bearings | bearings |
| Double stots | Double stots | for | for | mounting | mounting |
| row deep | row deep | standard | standard | and dism | and dism |
| groove | groove | condition | condition | ounting i | ounting i |
| ball | ball | | | nstructio | nstructio |
| bearings Bearing | bearings Bearing | Selecting | Selecting | ns | ns |
| data | data | internal | internal | | |
| | | clearance | clearance | | |
| Loads | Loads | Lubricati | Lubricati | | |
| | | | | | |
| Tempera | Tempera | on | on | | |
| ture | ture | Sealing, | Sealing, | | |
| limits | limits | mounting | mounting | | |
| Permissi | Permissi | and dism | and dism | | |
| ble speed | ble speed | ounting | ounting | | |
| | Bearing | Bearing | | | |
| Designati | Designati | failure | failure | | |
| on | on | and how | and how | | |
| system | system | to | to | | |
| | | prevent it | prevent it | | |
| | | | | | |



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