

24020EA.M

Spherical Roller Bearings (metric)



Details:

Main dimensions

| | | | |
|-------------|-----------------|----------------|-----------------|
| d [mm] | 100 | D_1 [mm] | ≈ 131.7 |
| D [mm] | 150 | d_s [mm] | 3.2 |
| B [mm] | 50 | n_s [mm] | 6.5 |
| Weight [kg] | ≈ 3.12 | $r_{1,2}$ [mm] | 1.5 |
| d_2 [mm] | ≈ 114.7 | | |



Mating dimensions

| | |
|--------------------|-----|
| $d_{a, \min}$ [mm] | 107 |
| $D_{a, \max}$ [mm] | 143 |
| $r_{a, \max}$ [mm] | 1.5 |

Calculation data

| | |
|--------------------------------|------|
| C [kN] | 275 |
| C_0 [kN] | 471 |
| C_u [kN] | 45.2 |
| n_{th} [min^{-1}] | 2825 |
| n_g [min^{-1}] | 4300 |
| e | 0,31 |
| Y_1 | 2,21 |
| Y_2 | 3,29 |
| Y_0 | 2,16 |