

Bearing life

Every care has been taken to ensure the accuracy of this calculation but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the calculation.

See section "SKF rating life"

	Bearing	2214
Select η_c	d, mm	70
<input type="text" value="0.3"/>	D, mm	125
	C, kN	44.2
	P_u , kN	0.88
	P, kN	<input type="text" value="10.9"/>
	n, r/min	<input type="text" value="37"/>
	v, mm ² /s	<input type="text" value="110"/>

		L ₁₀	67		L _{10h}	30000
κ	0.529					
v_1	208					
a_{SKF}	0.32	L _{10m}	21		L _{10mh}	9620

Old a₂₃ method for comparison

a ₂₃	0.326	L _{10a}	22		L _{10ah}	9790
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For grease lubricated bearings, please check the grease life. See section "Grease lubrication"

For calculation of two bearings on a shaft, see the program "SKF Bearing Select"

For calculation of the contamination factor η_c , see the program "SKF Bearing Select"