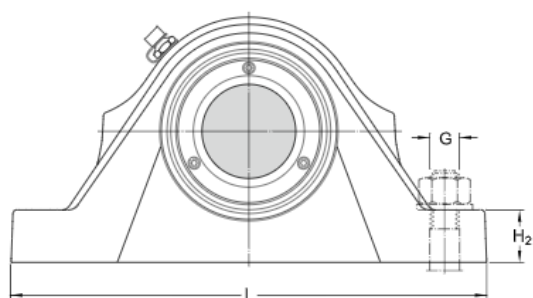
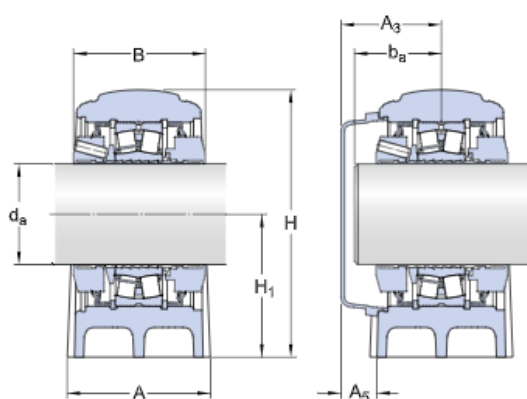


SYNT 45 F

Roller bearing plummer block units, for metric shafts

Technical specification



DIMENSIONS

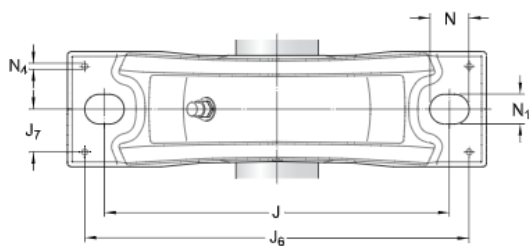
| | |
|-------|--------|
| d_a | 45 mm |
| A | 60 mm |
| B | 65 mm |
| H | 118 mm |
| H_1 | 60 mm |
| H_2 | 25 mm |
| J | 170 mm |
| L | 205 mm |
| N | 20 mm |
| N_1 | 15 mm |

SHAFT END

| | |
|-------|------------|
| A_3 | 52 mm |
| A_5 | 23 mm |
| b_a | min. 34 mm |
| b_a | max. 43 mm |

DOWEL PINS

| | |
|-------|--------|
| J_6 | 185 mm |
|-------|--------|



| | |
|-------|-----------|
| J_7 | 21 mm |
| N_4 | max. 6 mm |

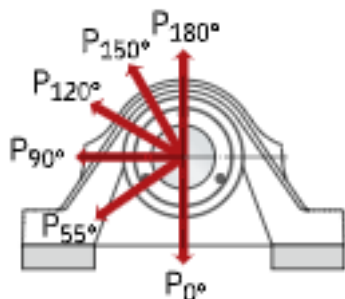
CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 102 kN |
| Basic static load rating | C_0 | 98 kN |
| Fatigue load limit | P_u | 10.8 kN |
| Limiting speed | | 3 500 r/min |
| Calculation factor | e | 0.26 |
| Calculation factor | Y_1 | 2.6 |
| Calculation factor | Y_2 | 3.9 |
| Bearing mean diameter | d_m | 65 mm |
| Incorporated bearing | | 22209 EKS |

LOAD CARRYING ABILITY

BREAKING LOADS

| | |
|-----------------|--------|
| P_{0° | 170 kN |
| P_{55° | 280 kN |
| P_{90° | 170 kN |
| P_{120° | 110 kN |
| P_{150° | 100 kN |
| P_{180° | 115 kN |



AXIAL HOLDING POWER

P_a

15 kN

MASS

Mass bearing unit

4 kg

MOUNTING INFORMATION

Attachment bolt diameter

G

12 mm

Tightening torque for attachment bolts

80 N·m

Grub screws

M6

Tightening torque for grub screws

8 N·m

Grease quantity for relubrication

4 g

APPROPRIATE PRODUCTS

End cover

ECY 209

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