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Complementary SKF marking

Symbols placed before the basic bearing marking

L - free separable bearing ring

R - separable bearing without free ring

K - inner or outer cone bearing ring from standard AFBMA bearings series

Symbols placed after the basic bearing marking Inner design marking

А

В

С

D - altered inner design in comparison with the original design

CC - single row angular ball bearing with contact angle 12°

C - single row angular ball bearing with contact angle 15°

AC - single row angular ball bearing with contact angle 25°

B - single row angular ball bearing with contact angle 40°

B - cone bearing with increased contact angle

С

 $\rm CC\,$ - barrel bearing with inner ring without guiding lips, with free ring separating two rows of rollers and pressed sheet metal cage

 $E\,$ - barrel bearing with inner ring without guiding lips, with free ring separating two rows of rollers and pressed sheet metal cage with increased capacity

CA

CAC - barrel bearing with inner ring with guiding lips, with free ring separating two rows of rollers and solid metal cage

EC ECA

ECA

ECAC - barrel bearings (C, CA, and CAC type) with increased capacity

EC - single row cone bearing with increased capacity

Outer design marking

K - Cone opening with 1:12 convergence

K30 - Cone opening with 1:30 convergence

N - Ring groove on outer ring

NR - Ring groove on outer ring and snap ring

N2 - Two fixed cuttings on outer ring

 ${\rm X}\,$ - Dimensions in accordance with ISO standards

X - Roller race surface (bearing-rollers)

Sealing marking

Z - Protection metal

 $2 \ensuremath{Z}$ - Protection metal on both sides of the bearing

ZN - Protection metal and ring groove on the outer ring on the oposite side of the metal

ZNR - Protection metal and ring groove with snap ring on the opposite side of protection metal

RS - Rubber seal (needle bearing)

2RS - RS seal on both sides of the bearing

RS1 - Rubber seal

2RS1 - RS1 seal on both sides of the bearing

RZ - No-contact rubber seal

- 2RZ RZ seal on both sides of the bearing
- LS Rubber seal (linear ball bearings)
- $2LS\;$ $LS\;$ seal on both sides
- PP Rubber seals on both sides

2F - Thrower on both sides of the bearing (self-aligning ball bearings)

2RF - Thrower sealing on both sides of the bearing (self-aligning ball bearings)

Cage marking

- J Pressed sheet steel cage
- Y Pressed sheet brass cage
- F Solid steel or special cast iron cage
- L Light metal solid cage
- M Solid brass cage
- T Tekstolit cage
- P TN9 Glass fibre reinforced polyamide cage

Additional A and B letters are used to indicated the cage guidance way. A means that cage is guided on outer ring.B indicates that cage is guided on inner ring. Lack of additional letter means that cage is guided on rolling elements

V - Bearing with full number of rolling elements (without cage)

Work precision grade

CLN - Tight tolerance in accordance with 6X standard

- CL3 Precision grade in accordance with ISO 3 grade (inch cone bearings)
- CL0 Precision grade in accordance with ISO 0 grade, higher than CL3 (inch cone bearings)
- CL7A standard cone bearings for pinion
- CL7C special cone bearings for pinion
- P6 Precision grade in accordance with ISO 6
- P5 Precision grade in accordance with ISO 5
- P4 Precision grade in accordance with ISO 4

P4A - dimensions precision in accordance with ISO 4 and rotation precision in accordance with ABEC9 by AFBMA

PA9A - Precision grade in accordance with ABEC9 by AFBMA

 $\mathsf{PA9B}\,$ - dimensions precision in accordance with ABEC9 by AFBMA, and rotation precision higher than $\mathsf{PA9A}\,$

SP - dimensions precision similar to ISO 5, and rotation precision in accordance with ISO 4

UP - dimensions precision similar to ISO 4, and rotation precision higher than ISO 4

Inner slackness marking

- C1 slackness lower than C2
- $\mbox{C2}\xspace$ slackness lower than normal
- CN normal slackness
- C3 slackness higher than normal
- C4 slackness higher than C3
- C5 slackness higher than C4

Precision and slackness grades are connected without C sign

Quality (bearing silent running) marking

- Q optimized contact and surface quality geometry (cone bearings)
- Q66 vibration level lower than normal, peak vibration parameters lowered
- QE5 special bearing quality for electric devices
- QE6 standard bearing quality for electric devices

Bearings in assembly marking

GB

GC - single row angular ball bearing designed for mounting in assembly (in system O, X or T) with a clamp:

(A) - light

(B) - medium

(C) - heavy

before mounting in system O or X

CA - single row angular ball bearing in CB designed for mounting in CC (in system O, X or T) with axial clearance:

(A) - low

(B) - normal

(C) - increased

przed zabudowa w ukladzie O lub X.

DΒ

DF

DT - two ordinary ball bearings, single row angular ball bearings, single row cone bearings designed for mounting in assembly:

(B) - in system O

(F) - in system X

(T) - in system T

DG - two ordinary ball bearings, single row angular ball bearings, single row cone bearings designed for mounting in assembly (in system O, X or T). Letters which appear directly after these symbols indicate axial clearance or two bearings clamp before mounting in system O or X

A - light clamp (single row angular ball bearings)

B - medium clamp (single row angular ball bearings)

C - heavy clamp (single row angular ball bearings)

CA - low slackness (ordinary ball bearings and single row angular ball bearings)

CB - normal slackness (ordinary ball bearings and single row angular ball bearings)

CC - increased slackness (ordinary ball bearings)

CG - "zero" slackness (cone bearings)

C... - special slackness (given number indicates the slackness parameter)

GA - light clamp (ordinary ball bearings)

GB - medium clamp (ordinary ball bearings)

G... - special clamp (number given crosses out the clamp parameter)

Stabilization marking

Bearings are stabilized for working temperatures

S0 - up to 150°C

S1~ - up to $200^\circ C$

S2~ - up to $250^\circ C$

S3 $\,$ - up to 300°C $\,$

S4 - up to 350°C

Lubrication marking

AS - grease hole in outer ring (needle bearings)

ASR - grease groove and grease hole in outer ring (needle bearings)

IS - grease hole in inner ring (needle bearings)

ISR - grease groove and grease hole in inner ring (needle bearings)

W - no grease holes in bearing rings

W20 - three grease holes in outer ring

W26 - six grease holes in inner ring

W33 $\,$ - grease groove and three grease holes in outer ring

W33X - grease groove and three grease holes in outer ring

W513 - W26 + W33

W518 - W20 + W26

Grease marking

HT - grease for high working temperatures (-20 do+130°C)

LHT - grease for low and high working temperatures (-40 do+140°C)

LT - grease for low working temperatures $(-50 \text{ do} + 80^{\circ}\text{C})$

MT - grease for medium working temperatures (-30 do+110°C)

A - grease amount in bearing lower than normal

B - grease amount in bearing higher than normal

C - grease amount in bearing higher than normal (higher than B)

Special design

VA... - special-purpose bearing

VB... - bearing with altered inner design (in comparison with standard design)

VE... - bearing with altered inner or outer design

VS... - bearing with special inner slackness

These symbols appear together with 3 digit number

Example marking:

6210-2RS1 NR C3/HT51B 6210-2RS1 NR C3/HT51B - ordinary ball bearings
6210-2RS1 NR C3/HT51B - with two rubber seals
6210-2RS1 NR C3/HT51B - ring groove on outer ring and snap ring
6210-2RS1 NR C3/HT51B - slackness C3,
6210-2RS1 NR C3/HT51B - filled with special grease for high working temperatures
6210-2RS1 NR C3/HT51B - grease amount larger than normal

6208-2Z/VA208

6208-2Z/VA208 - ordinary ball bearing 6208-2Z/VA208 - with two protection metals

6208-2Z/VA208 - designed specially for cotter trolleys

60/1000 MB C3

60/1000 MB C3 - ordinary ball bearing

60/1000 MB C3 - solid brass cage

 $60/1000\ MB\ C3$ - guided on inner ring

60/1000 MB C3 - radial clearance C3

7207 ACD/P4A

7207 ACD/P4A - single row angular ball bearing

7207 ACD/P4A - contact angle 25°

7207 ACD/P4A - altered inner design

7207 ACD/P4A - precision grade P4A

7207 ACD/P4A - tekstolit cage guided on outer ring (not indicated)

71904 CD GA/PA9A
71904 CD GA/PA9A - single row angular ball bearing
71904 CD GA/PA9A - contact angle 15°
71904 CD GA/PA9A - altered inner design
71904 CD GA/PA9A - designed for mounting in assembly (in system O, X or T) with clamp, before mounting in system O or X
71904 CD GA/PA9A - precision in accordance with ABEC9 by AFBMAtekstolit cage guided on outer ring (not indicated)

7306 BECB P P5
7306 BECB P P5 - single row angular ball bearing
7306 BECB P P5 - contact angle 40°
7306 BECB P P5 - designed for mounting in assembly (in system O, X or T) with normal axial clearance, before mounting in system O or X
7306 BECB P P5 - glass fibre reinforced polyamide cage, guided on rolling elements

7306 BECB P P5 - precision grade P5

NU224 EC J P63 NU224 EC J P63 - single row roller bearing NU224 EC J P63 - altered inner design NU224 EC J P63 - pressed steel cage, increased bearing capacity NU224 EC J P63 - precision grade P6 NU224 EC J P63 - radial clearance C3

L 31313 L 31313 - free ring (outer) L 31313 - cone bearing 31313

bbbK-09195 K-09195 - outer ring K-09195 - cone bearing (inch) from series 09000 by AFBMA

32220/DF

32220/DF - two single row cone bearings

32220/DF - paired for mounting in assembly in system X, standard axial clearance (not indicated)

23068 CC K C3/W33
23068 CC K C3/W33 - barrel bearing
23068 CC K C3/W33 - inner ring without guiding lip, free ring separating two rows, pressed steel cage
23068 CC K C3/W33 - Cone opening with 1:12 convergence
23068 CC K C3/W33 - Radial clearance C3
23068 CC K C3/W33 - Grease groove and three grease holes in outer ring
