

Abbrev.	Column	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	2	1	2	3	4	5	6	7	8	9	3	1	2	3	4	5	6	7	8	9	4
Example:		M	A	D	1	3	0	B	-	0	1	5	0	-	S	A	-	S	0	-	A	G	0	-	0	5	-	N	1											

8. Shaft

		plain shaft	with key balanced with entire key	with key balanced with half key
8.1	without shaft sealing ring	H	Q	L
8.2	with shaft sealing ring	G	P	K

9. Holding brake

- 9.1 without holding brake = 0
 9.2 electrically-released, 80 Nm = 1
 9.3 electrically-clamped, 100 Nm = 5

10. Mounting style

- 10.1 Flange mounting = 05
 10.2 Flange and foot mounting = 35

11. Bearings

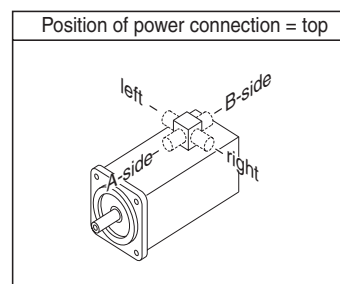
- 11.1 Standard = N
 11.2 High Speed = H ④
 11.3 for coupling mounting = R
 11.4 reinforced bearings = V

12. Vibration severity grade

- 12.1 R = 1
 12.2 S = 2
 12.3 S1 = 3 ⑤

Note:

- ① Encoder "S6" and "M6" are only available with cooling "SL", electrical connection "F", "K", "S" and "T", shaft "G", "P" and "K" and bearings "N", "H" and "V"
 ② Looking from front onto driven shaft (see picture 1)
 ③ Electrical connections "F", "K", "S" and "T" at mounting style "35" are only available on top
 ④ Bearing "H" is only available with shaft "H" and holding brake "0"
 ⑤ Vibration severity grade "3" is only available with length "B" and "C" and bearings "N" and "H"

**Picture 1**

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Fig. 6-7: Type code MAD130 (2/2)

9.17 Bearing Variants

Depending on the frame size of the IndraDyn A motors, the following bearing variants are available:

- Standard bearing "N" = deep-groove ball bearing
- Reinforced bearing "V" = deep-groove ball bearing + cylindrical roller bearing
- high-speed bearing "H" = deep-groove ball bearing, light construction
- bearing for coupling connection "R" = deep-groove ball bearing + special bearing seat

Standard bearing Universal bearing (type key option "N"), suitable for taking up low to medium radial and axial forces.

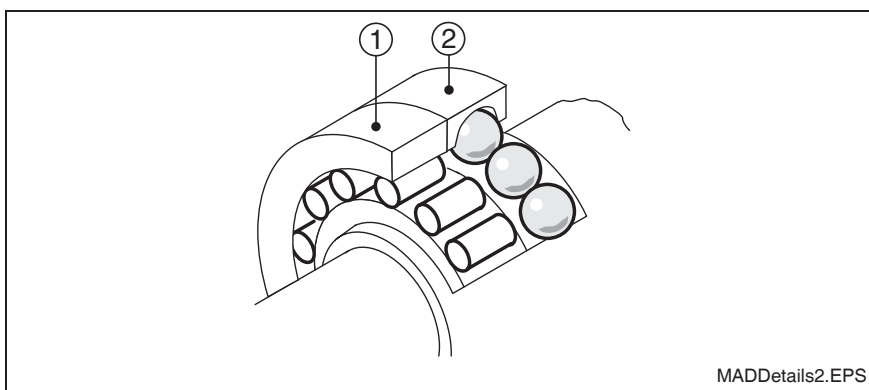
Advantages:

- Easily available and high lifetime
- Suitable for high speeds
- Low-noise running

Disadvantage:

- Suitable only for low to medium radial and axial loads.

Reinforced bearing The reinforced bearing (type code option "V") is equipped with an additional cylindrical roller bearing on the drive side.



- (1): Cylindrical roller bearing
(2): Deep-groove ball bearing

Fig. 9-49: Reinforced bearing

Advantage:

- Can absorb higher radial forces

Disadvantage:

- The grease service life of reinforced bearing is reduced to half of the standard value.
- In certain motors, a reduction of the maximum permitted speed results.