

## 8.7. Available Options

| Type code fields                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                       |                 | Example:     |             | MAC 115 A-0-HS-4 - C/130-A-0/WI 520LV/S000 |             |             |             |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|-----------------|--------------|-------------|--------------------------------------------|-------------|-------------|-------------|--|--|--|--|--|--|
| 1. Motor for analogue drives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                       |                 | MAC          |             |                                            |             |             |             |  |  |  |  |  |  |
| 2. Motor size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                       |                 | 115          |             |                                            |             |             |             |  |  |  |  |  |  |
| 3. Motor length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                       |                 | A, B, C, D   |             |                                            |             |             |             |  |  |  |  |  |  |
| 4. Type of cooling:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| natural convection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | surface cooling                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | axial                                                 |                 | radial       |             |                                            |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                       |                 | blower right |             | blower below                               |             | blower left |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | AC<br>230 V                                           | AC<br>115 V     | AC<br>230 V  | AC<br>115 V | AC<br>230 V                                | AC<br>115 V | AC<br>230 V | AC<br>115 V |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1 <sup>1)</sup>                                       | 2 <sup>1)</sup> | 6            | A           | 7                                          | B           | 8           | C           |  |  |  |  |  |  |
| 5. Type of windings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| Nominal rpm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Motor length                                          |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | A                                                     | B               | C            | D           |                                            |             |             |             |  |  |  |  |  |  |
| 1500 min <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | --                                                    | --              | --           | ES          |                                            |             |             |             |  |  |  |  |  |  |
| 2000 min <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | HS                                                    | GS              | ES           | DS          |                                            |             |             |             |  |  |  |  |  |  |
| 3000 min <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | FS                                                    | DS              | CS           | CS          |                                            |             |             |             |  |  |  |  |  |  |
| 6. Motor feedback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div>Motor type</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>with tachofeedback</div> <div>2</div> </div> <div style="display: flex; justify-content: space-between;"> <div>with tachofeedback and second shaft end</div> <div>3</div> </div> <div style="display: flex; justify-content: space-between;"> <div>with tachofeedback and mounted incremental or absolute encoder</div> <div>4</div> </div>                                                                                                                                                                    |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div>Tacho voltage</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>set to nominal motor speed</div> <div>-</div> </div> <div style="display: flex; justify-content: space-between;"> <div>(nominal rpm &gt; 3000 min<sup>-1</sup> : 1.5 V/1000 min<sup>-1</sup>)</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>(nominal rpm ≤ 3000 min<sup>-1</sup> : 3 V/1000 min<sup>-1</sup>)</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>1.5 V/1000 min<sup>-1</sup></div> <div>H</div> </div> |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div>Tacho type</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Standard</div> <div>C</div> </div> <div style="display: flex; justify-content: space-between;"> <div>increased smooth run quality</div> <div>F</div> </div>                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| 7. Centering diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| for design B05 and B14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                       |                 | 130          |             |                                            |             |             |             |  |  |  |  |  |  |
| for design B05 and B14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                       |                 | 180          |             |                                            |             |             |             |  |  |  |  |  |  |
| 8. Power connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| connector to side A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 | A            |             |                                            |             |             |             |  |  |  |  |  |  |
| connector to side B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |                 | B            |             |                                            |             |             |             |  |  |  |  |  |  |
| connector to right (looking onto output shaft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                       |                 | R            |             |                                            |             |             |             |  |  |  |  |  |  |
| connector to left (looking onto output shaft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                       |                 | L            |             |                                            |             |             |             |  |  |  |  |  |  |
| 9. Blocking brake                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| without blocking brake                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                       |                 | 0            |             |                                            |             |             |             |  |  |  |  |  |  |
| with standard blocking brake (45 Nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                       |                 | 1            |             |                                            |             |             |             |  |  |  |  |  |  |
| with heavy-duty blocking brake (60 Nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                       |                 | 2            |             |                                            |             |             |             |  |  |  |  |  |  |
| Mounted encoder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 10. Type <sup>2)</sup>                                |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Incremental encoder with standard mounting            |                 |              |             | WI                                         |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Incremental encoder with shock-damped mounting        |                 |              |             | DI                                         |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Absolute encoder                                      |                 |              |             | AM                                         |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 11. Encoder code <sup>2)</sup>                        |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | For available types, see section 2.4 "Motor feedback" |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| 12. Special types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| Fixed and documented by INDRAMAT with special number (see Drawing no.: 106-0105-4301-XX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |
| Does not apply to standard motors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                       |                 |              |             |                                            |             |             |             |  |  |  |  |  |  |

Fig 8.20: Type codes MAC 115