

## 7.7. Available Options

Type code fields		Example: <b>MAC 112 A-0-LD-4 - C/130-A-0/WI 520LV/S000</b>
1.	Motor for analogue drives	MAC
2.	Motor size	112
3.	Motor length	A, B, C, D
4.	Type of cooling:	
	natural convection	surface cooling
		axial                      radial
		blower right    blower below    blower left
		AC    AC    AC    AC    AC    AC    AC    AC
		230 V 115 V 230 V 115 V 230 V 115 V 230 V 115 V
	0	1 <sup>1)</sup> 2 <sup>1)</sup> 6    A    7    B    8    C
5.	Type of windings	
	Nominal rpm	Standard applications                      with increased smooth run quality
		motor length                      motor length
		A    B    C    D                      A    B    C    D
	1500 min <sup>-1</sup>	ZD   PD   KD   HD                      ZG   PG   KG   HG
	2000 min <sup>-1</sup>	VD   LD   HD   FD                      VG   LG   HG   FG
	3000 min <sup>-1</sup>	LD   GD   ED   ED                      LG   GG   EG   EG
	5000 min <sup>-1</sup>	--   --   --   CD <sup>6)</sup> --                      --   --   CG <sup>6)</sup> --
6.	Motor feedback	
	Motor type	
	with tachofeedback	2
	with tachofeedback and second shaft end	3
	with tachofeedback and mounted incremental or absolute encoder	4
	Tacho voltage	
	set to nominal motor speed	-
	(nominal rpm > 3000 min <sup>-1</sup> : 1,5 V/1000 min <sup>-1</sup> )	
	(Nennzahl ≤ 3000 min <sup>-1</sup> : 3 V/1000 min <sup>-1</sup> )	
	1.5 V/1000 min <sup>-1</sup>	H
	6 V/1000 min <sup>-1</sup> 3)	L
	Tacho type	
	Standard	C
	increased smooth run quality	F
7.	Centering diameter	
	for design B05 and B14	130
	for design B05 and B14	180 2)
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 towards 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 2) 5)
	extra heavy-duty blocking brake (60 Nm)	3 2) 5)
Mounted encoder	10. Type 4)	
	Incremental encoder with standard mounting	WI
	Incremental encoder with shock-damped mounting	DI
	Absolute encoder	AM
	11. Encoder code 4)	
	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.	

1) For type 3 motors (with 2nd shaft end and tachofeedback). Not available with axial surface cooling.

2) Type code fields 10 and 11 do not apply to motor types 2 and 3.

3) only with tacho type "F"

4) type code fields 10 and 11 do not apply to motor types 2 and 3

5) not available with motor length A

6) not available with surface cooling