

Type codes IndraDyn A

6.9 Type code MAF160

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

Product

MAF = MAF

Size

160 = 160

Length

Lengths = B, C

Winding ①

MAF160B ... = 0050, 0100, 0150, 0200

MAF160C ... = 0050, 0100, 0150, 0200

Cooling

Liquid cooling with connection thread 1/2" = FQ

Liquid cooling with enclosed rapid action coupling 1/2" = FR

Encoder ②

Singleturn absolute encoder, EnDat2.1, 2048 increments = S2

Singleturn absolute encoder, EnDat2.1, 2048 increments, for Ex areas = S6

Multiturn absolute encoder, EndDat2.1, 2048 increments = M2

Multiturn absolute encoder, EndDat2.1, 2048 increments, for Ex areas = M6

Incremental encoder, 2048 increments = C0

without motor encoder = N0

Fig. 6-16: Type code MAF160 (1/2)

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

Electrical connection see picture 1 ③

	Connector	Terminal box, turnable
A-Side	A	E
B-Side	B	H
Right	R	D
Left	L	T

Shaft ④

	plain shaft	with key	
		balanced with entire key	balanced with half key
Without shaft sealing ring	H	Q	L
With shaft sealing ring	G	P	K
With labyrinth seal	F	R	M

Holding brake

Without holding brake = 0
Electrically-released, 100 Nm = 1
Electrically-clamped, 100 Nm = 5

Mounting style

Flange mounting = 05
Flange and foot mounting = 35

Bearings ⑤

Fixed bearing A-side = A
High Speed = H
Standard = N
Reinforced bearings = V

Vibration severity

A, according to DIN EN 60034-14 = 1
B, according to DIN EN 60034-14 = 3
C, specification according to IndraDyn A - documentation = 4 ⑥

Note:

① Winding MAF160B-"0200", MAF160C-"0150" and MAF160C-"0200" are not available with electrical connection "A", "B", "R" and "L"
② Ex type for cluster II 2G Ex pd IIB T3 according to DIN EN 60079 ff. Encoder "M6" and "S6" are not available with el. connection "A", "B", "R" and "L" and only with shaft "G", "P" and "K" and bearings "A", "N" und "V"
③ According to DIN IEC 60204-1 and DIN IEC 60364-5-52
④ Shaft "F", "M" and "R" always available with shaft sealing ring
⑤ Bearing "A" is only available with holding brake "0" and vibration severity "1"
Bearing "H" is not available with encoder "S6" and "M6" and only with shaft "H" and holding brake "0"
⑥ Vibration severity "4" is only available with bearings "N"

Standard reference

Standard	Edition	Title
DIN EN 60034-14	2008-03	Rotating electrical machines - Part 14
DIN EN 60079 ff	-	Electrical apparatus for explosive gas atmospheres (ATEX)
DIN EN 60204-1	2007-06	Safety of machinery - Electrical equipment of machines - Part 1
DIN IEC 60364-5-52	2004-07	Erection of low voltage installation - Part 5

Fig. 6-17: Type code MAF160 (2/2)