



ELECTRICAL ENGINEERING Co.

- RESEARCH AND DEVELOPMENT
- MANUFACTURING
- INTERNATIONAL BUSINESS

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QUALITY-ENVIRONMENT INTEGRATE SYSTEM



Fail safe - Permanent Magnet Brakes

The brakes are fail safe DC operated permanent magnet single-surface brakes characterized by the fact that the braking effect is produced by a permanent magnet (electromagnetically released system). This means that the required braking force is generated when voltage is removed. In order to cancel the braking effect, the permanent magnetic field is counteracted by an opposing electromagnetic field.

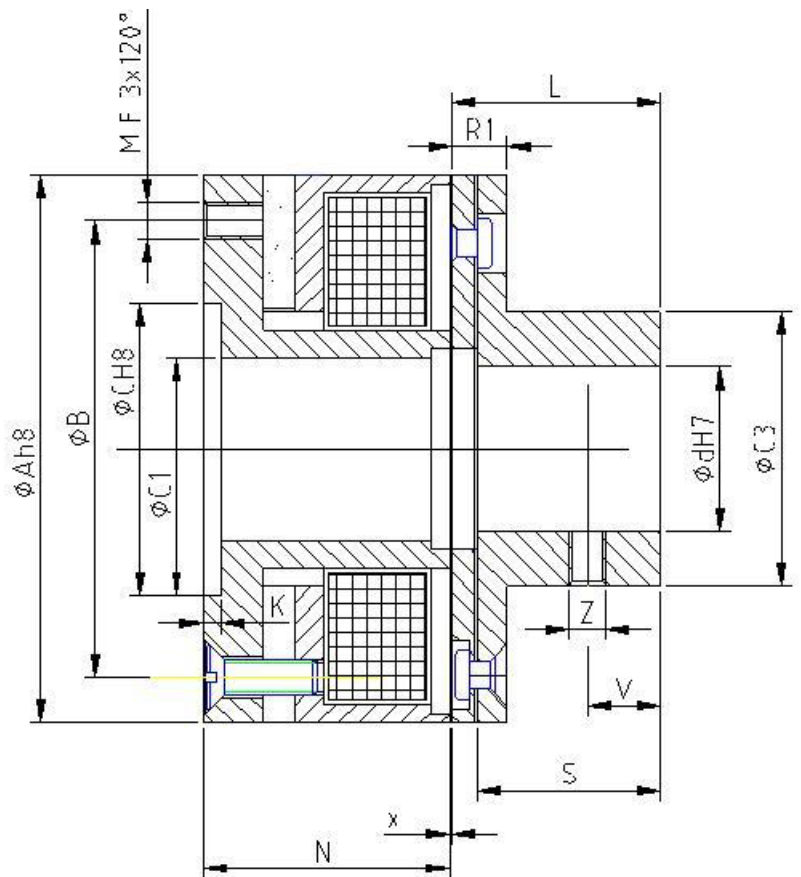
FPM brakes ensure reliable brake release with zero residual torque in any mounting position and zero backlash during torque transmission. These brakes are especially suitable for servo motor applications.



Technical characteristics:

Size	Brake type	Brake torque[Nm]	Moment of inertia J•[kgcm ²]	I _{max} [A]
0	FMP-1,2	1,2	0,03	0,37
1	FMP-3,2	3,2	0,3	0,42
2	FMP-6	6	0,63	0,55
3	FMP-12	12	2,1	0,75

Brake type	A	B	C	C ₁	C ₃	d	D	F	K	L	N-0,1	O ₁	O ₂	R ₁	S	V	X ^{0,1}	Z
FMP 1,2	40	32	26	13	15	12	40	3xM3	2	13,5	24,3	6,5	8	5	11	-	0,2	-
FMP 3,2	60	50	32	20	30	18	56	3xM4	2	23,5	27	7	10	6	20	8	0,2	2xM4
FMP 6	70	60	42	26	32	20	66	3xM4	2,5	24	31	7	10,5	9	20	8	0,2	1xM4
FMP 12	85	70	47	36	42	25	85	3xM5	2,5	36,8	34	8,5	9,5	11,8	34	19	0,2	1xM5



Rated Voltage: 24 VDC \pm 10%

The product is developed, tested and manufactured by ICPE SA

- **Manufacturing in integrated quality-environment assurance system according to:**

SR EN ISO 9001:2001 and SR EN ISO 14001:2005

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