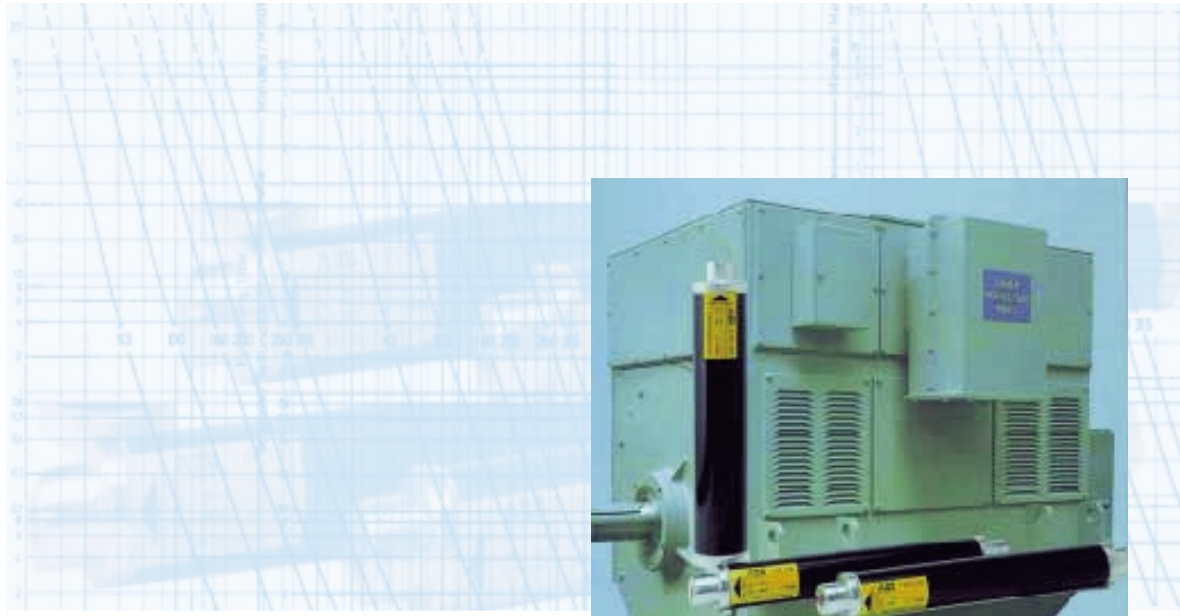


Power^{IT} Motor Circuits Fuses, CMF

Rated voltage: 3,3-12 kV

Rated current: 63-315 A

Catalogue 1YMB31070-en



ABB's motor fuses have the following properties:

- higher current rating within single body dimensions
- tested according to IEC 644 which guarantees excellent ability to withstand repeated motor starting conditions
- low power losses
- low minimum-breaking-current
- high breaking capacity and excellent short circuit current limitation
- although a motor fuse is normally run at a stationary current which is much lower than the fuse rated current, the low-loss characteristics of the CMF fuses make them specially suitable in compact contactor compartments

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ABB

Choice of fuse links

The fuse links type CMF are specially designed for motor circuit applications. They are tested according to the IEC Publication 282-1 and Publication 644. The IEC 644 applies to fuse links used with motors started direct-on-line on alternating current systems. High voltage fuses used in motor circuits must have the ability to withstand, without deterioration, the repeated surges associated with motor starting.

The dimensions are in accordance with DIN 43625, i.e. the 3,6 kV rating is realized in the normal 12 kV length (e = 292 mm). The 7,2 kV and 12 kV rating in the 24 kV length (e = 442 mm).

Special connection elements can be delivered in cases where fuses have to be paralleled.

Selection procedure:

- Select the charts which are appropriate for the run-up time of the motor,
- select the starting current along the horizontal axis,
- depending on the number of starts per hour, select the correct characteristic (2, 4, 8, 16, 32),
- read of the correct rating of the fuse link on the vertical axis.

Rated Voltage [kV]	Rated Current [A]	e / D [mm]
3,6	100, 160	292 / 65
3,6	200, 250, 315	292 / 87
7,2	63, 100, 160	442 / 65
7,2	200, 250, 315	442 / 87
12	63	442 / 65
12	100, 160, 200	442 / 87

* BS execution is available upon request.

Example:

	A	B
Starting current of the motor	850 A	250 A
Run-up time	6 sec.	15 sec.
Number of starts per hour	2	16
Chart number	1	2
Rated current of fuse link	250 A	160 A

Fuse base type UCM

Type	Rated voltage	Dimensions in mm							Weight
		kV	A	A ₁	A ₂	H	K	K ₁	
UCM	3,6	232	160	220	410	318	293	180	3,7
UCM	7,2/12	232	160	220	570	468	443	300	4,2

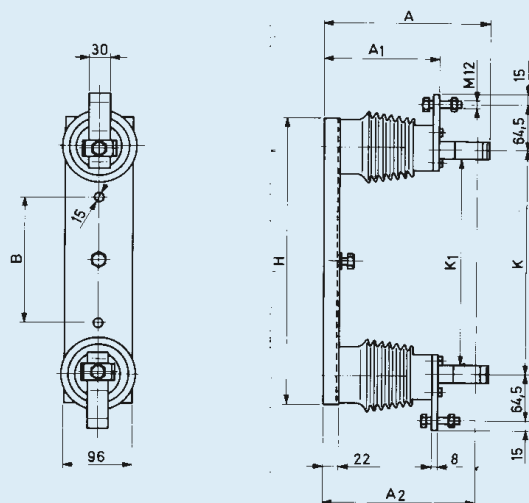


ABB is working to continuously improve the products. Therefore we reserve the right to change design, dimension and data without prior notice.

This product has been certified by ABB Group as **Industrial IT Enabled™ - Information Level**. All product information is supplied in interactive electronic format, based on ABB Aspect Object™ technology. The Industrial IT commitment from ABB ensures that every enterprise building block is equipped with the integral tools necessary to install, operate, and maintain it efficiently throughout the product lifecycle.



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