

IEC Technical data

A9 – AF750

Electrical durability

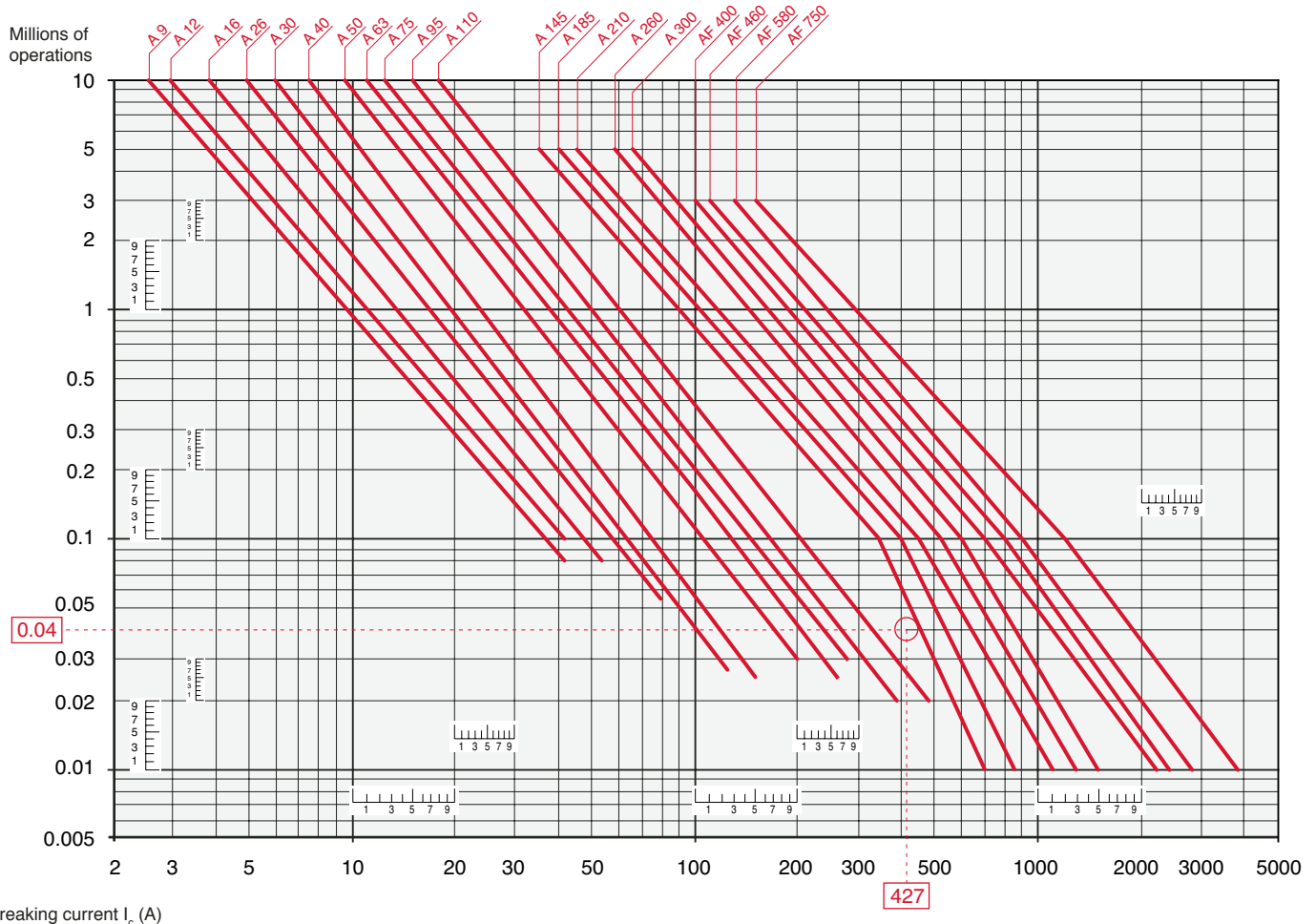
Across the line
contactors

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Electrical Durability for AC-2 or AC-4 Utilization Category - $440\text{ V} < U_o \leq 690\text{ V}$. Ambient Temperature $\leq 55\text{ }^\circ\text{C}$

Maximum number of AC-2 or AC-4 operations: 300 per hour for A 9 ... A 40 contactors,
150 per hour for A 50 ... A 300 contactors.

Switching cage motors: starting, reverse operation and step-by-step operation. The breaking current I_c is equal to $2.5 \times I_o$ for AC-2 and $6 \times I_o$ for AC-4, keeping in mind that I_o is the motor rated operational current (I_o = motor full-load current).



Breaking current I_c (A)

Example:

Motor power 59 kW for AC-4 - $U_o = 600\text{ V}$ utilization – Electrical durability required = 0.04 million operations.

As stated on page 0/0: 59 kW, 600 V corresponds to $I_o = 71.1\text{ A}$.

For AC-4: $I_c = 6 \times I_o = 426.6\text{ A}$ - Select the A 145 contactor at intersection "O" (427 A / 0.04 million operations) on the curves (AC-4 - $440\text{ V} < U_o \leq 690\text{ V}$).