

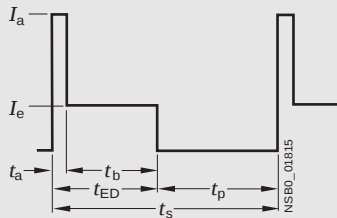
Solid-State Switching Devices for Switching Motors

Solid-State Contactors

3RF24 solid-state reversing contactors,
three-phase

Characteristic curves

Load diagram of motor



Operating data of motor

- I_a Direct starting current
- I_e Rated operational current
- t_a Starting time
- t_b Operating time
- t_p Interval time
- t_{OP} ON period
- t_s Operating cycle

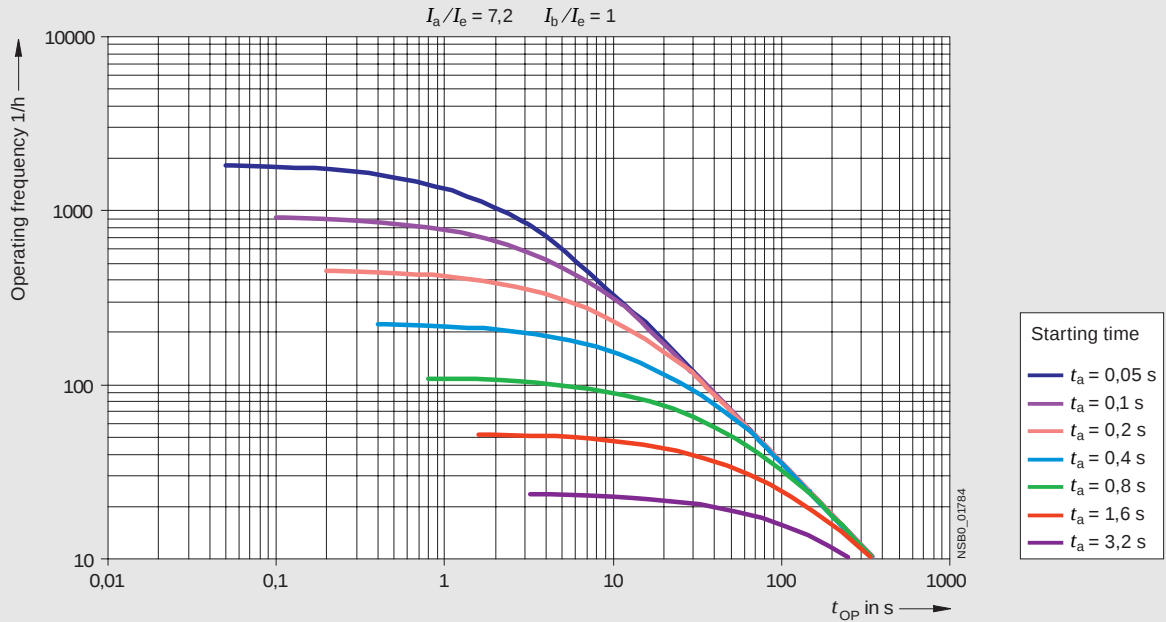
$$OP [\%] = \frac{t_{OP}}{t_s} \times 100\%$$

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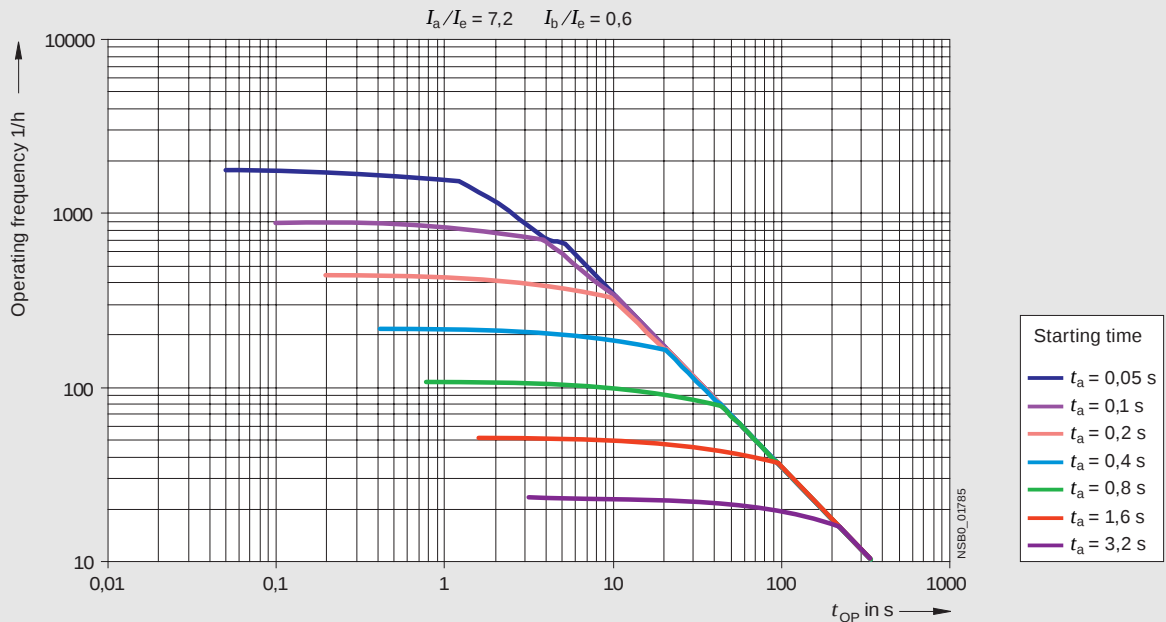
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Maximum permissible switching frequency depending on the starting time t_a and the ON period t_{OP}



For motors with a starting current of 4- to 7.2 times the rated current and with a full load

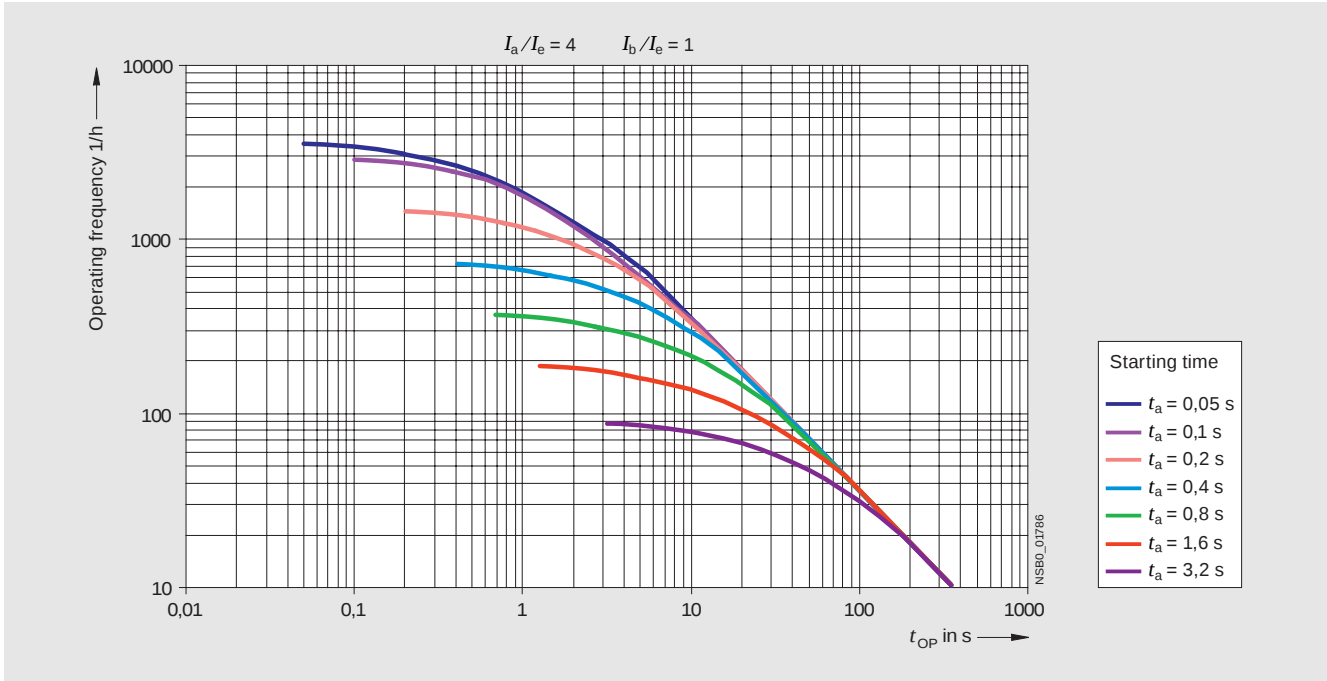


For motors with a starting current of 4- to 7.2 times the rated current and with a 60 % load

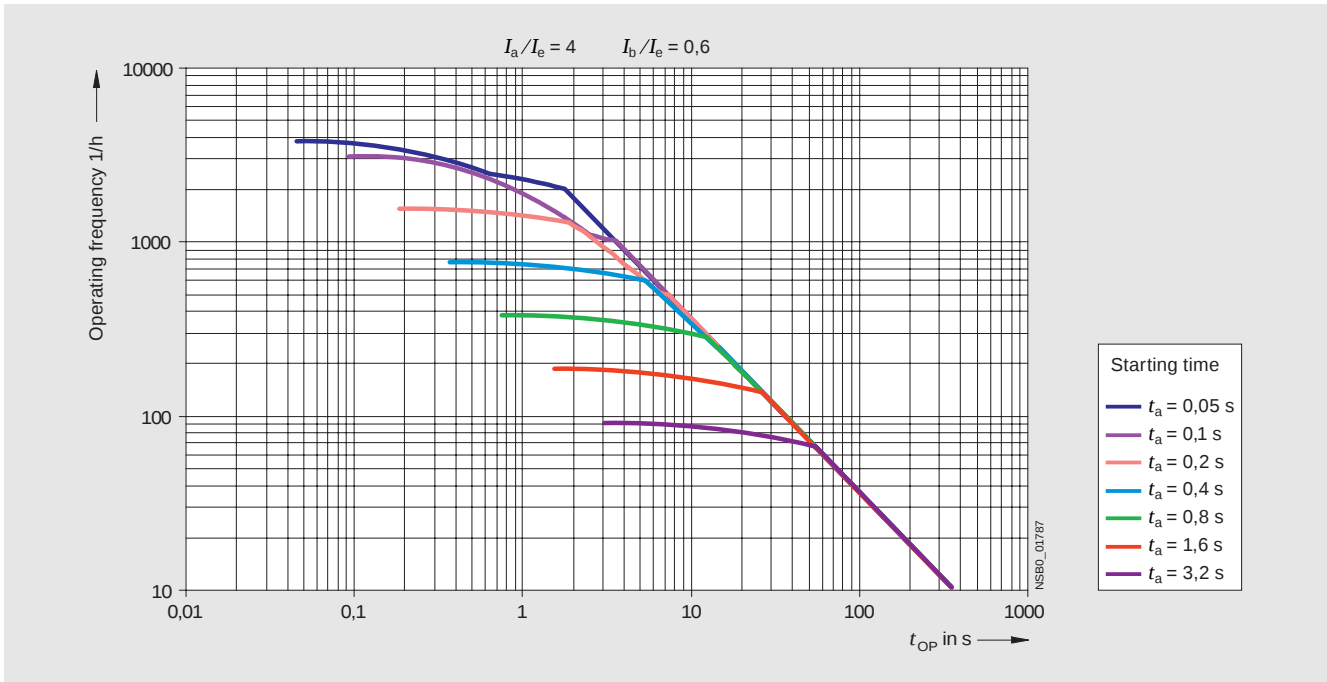
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For motors with a starting current of up to 4 times the rated current and with a full load



For motors with a starting current of up to 4 times the rated current and with a 60 % load