

# IEC Technical data

## Temporary or intermittent duty

### Utilization of Contactors for Temporary / Intermittent Duty

The table below shows the factor to be applied to the rated operational current  $I_e / AC-1$  to obtain the permissible operational current  $I_e / AC-1$  in relation to the switching frequency and the current flow time per cycle.

Operating cycles per hour	120	60	20	6	2	1
Current flow time per cycle in seconds.	Factor to be applied to the rated operational current $I_e / AC-1$ max. to obtain the permissible current $I_e / AC-1$ for temporary / intermittent duty.					
5	2.8	3.4	4	4.7	5	5.2
10	2.2	2.6	3	3.4	3.7	3.8
20	1.6	2	2.4	2.6	2.7	2.8
30	-	1.7	2.1	2.2	2.3	2.4
40	-	1.5	1.9	2.0	2.1	2.2
60	-	-	1.7	1.8	1.8	1.9

Example:

A 9 contactor (intermittent duty, resistive load)

Rated operational current  $I_e / AC-1$  at 55 °C (see page 1.42)

Switching frequency

Current flow time per cycle

Factor to be applied to the current  $I_e / AC-1$

Permissible current:  $2.7 \times 22 =$

22 A

2 operations/h

20 s

2.7

59 A