

## IEC Technical data










### DC circuit switching

### A/AF/AE95 — AF750

#### Technical Data

- The tables indicate for the standard contactors the  $I_b$  max. operating currents depending on: the utilization category (i.e. L/R) DC-1, DC-3, DC-5 as defined in the IEC 60947-4-1 publication, the operating voltage  $U_g$  and the pole coupling details. See page 1.81.  
Ampere values quoted in the tables below are valid for a -25 ... +70 °C temperature close to the contactors, as long as the AC-1 Ampere values (see pages 1.45 - 146) for the corresponding ambient temperature are not exceeded.
- Max. switching frequency: 300 ops/h.
- For switching higher d.c. ratings, we recommend the use of bar mounted contactors, R series (63 ... 2000 A).

The selection table for AE 50 ... AE 110 contactors can be used for the TAE 50 ... TAE 110 types.

a.c. operated contactors			A95	A110	A145	A185	A210	A260	A300	—	—	—	—
a.c. / d.c. operated (electronic coil interface)			AF95	AF110	AF145	AF185	AF210	AF260	AF300	AF400	AF460	AF580	AF750
d.c. operated contactors			AE95	AE110	—	—	—	—	—	—	—	—	—
Utilization category DC-1, L/R ≤ 1 ms													
	≤110 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	145	160	250	275	350	400	450	600	700	800	1050
	440 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050
Utilization category DC-3, L/R ≤ 2.5 ms													
	≤110 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	145	160	250	275	350	400	450	600	700	800	1050
	440 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050
Utilization category DC-5, L/R ≤ 15 ms													
	≤110 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	—	—	—	—	—	—	—	600	700	800	1050
	≤110 V	A	145	160	250	275	350	400	450	600	700	800	1050
	220 V	A	145	160	250	275	350	400	450	600	700	800	1050
	440 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050
	600 V	A	—	—	—	—	—	—	—	600	700	800	1050