Appendix:
Relay contact rating

Contact type	Normally open contact	Normally closed contact	Normally open contact	Normally closed contact	Normally open contact	Normally closed contact
Rated current (max. continuous current)	16 A	16 A	10 A	10 A	6 A	6 A
Contact material	AgSnO2					
Contact gap	0.5 mm					
min. switching voltage / switching current (#3)	5 V / 10 mA				12 V / 500 mA	
max. switching voltage	440 V~ / 250 V-				250 V~	
max. inrush current (1ms)	50 A		30 A		18 A	
max. inrush current (5s)	25 A		14 A		8 A	
max. switching capacity 230 V~ resistive load (nominal load)	3500 W		2000 W		1300 W	
max. switching capacity 230 V~ incandescent lamps	1000 W		600 W		500 W	
max. switching capacity 230 V~ fluorescent lamps (#1)	250 VA		140 VA		90 VA	
max. switching capacity 230 V~ ECG's (#1)	100 VA		60 VA		30 VA	
max. switching capacity 230 V~ fluorescent lamps, ECGs with EBN 2	1000 VA		600 VA		400 VA	
max. switching capacity 230 V~ inductive load (cos φ = 0.6)	650 VA		370 VA		220 VA	
max. capacitive load	30 uF		15 uF		10 uF	
max. switching capacity DC (#2)	350 W		250 W		150 W	
Mechanical service life (switching cycles)	10^7					
Service life at rated load[switching cycles]	10^5					
max. switching frequency	900/h		900/h		360/h	

#1 With capacitive inrush current (parallel-compensated LS lamps, ECGs), contact protection is required from maximum capacitive load e.g. EBN 2 (inrush current limiter connected downstream; series resistor 12 Ω bridged after 15 ms) for ECGs typically 3...6 uF are parallel to the input

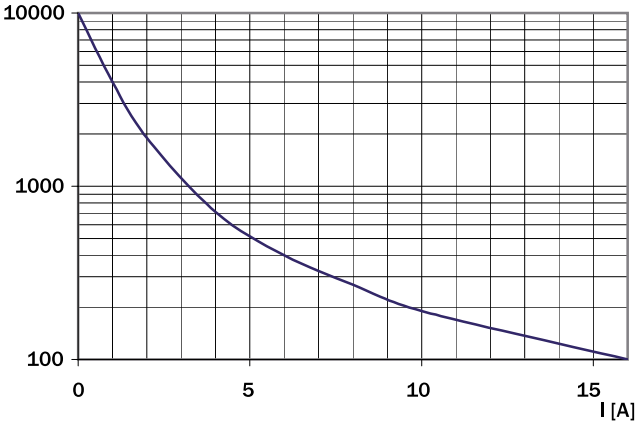
#2 with sufficient spark suppression (see load limit curve for DC voltage)

#3 depending on switching frequency and ambient conditions

Appendix:
Relay contact rating

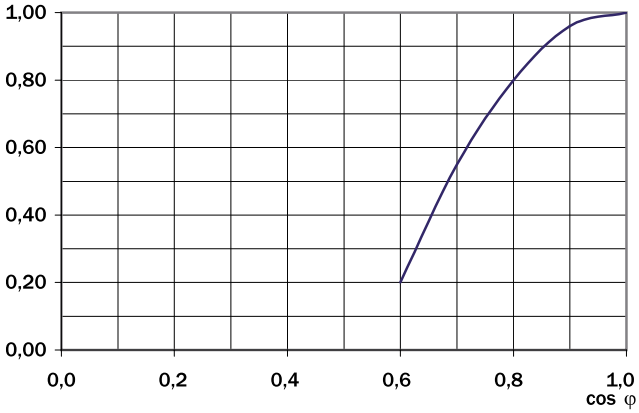
The following diagrams are typical for the NO contact 16A

Switching cycles [x10³]



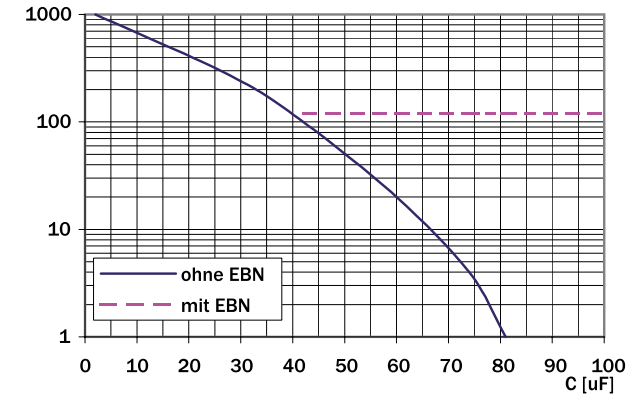
Contact service life with resistive load at 230 V~

Reduction factor



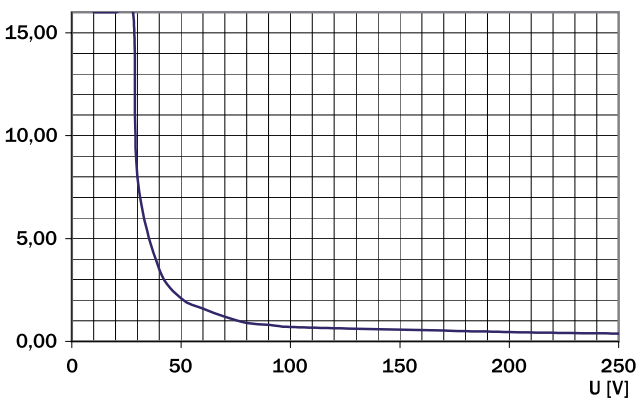
Reduced contact life under inductive load

Switching cycles [x10³]



Contact service life with capacitive load at 230 V~

I [A]



Load limit curve for DC voltage

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