



Porque os contatores CVX tem limitação da corrente operacional

Os contatores CVX tem a sua corrente operacional limitada porque funciona em conjunto com os fusíveis de proteção do circuito e estes sofrem desclassificação em função da forma de aplicação , por exemplo , quando aplicados dentro de paineis

Vacuum contactor range

CVX series, up to 12 kV fixed version / withdrawable version

Main characteristics

			CVX-07	CVX-C-07	CVX-C-12	CVX-C-F
Electrical characteristics according to IEC 60470						
Phase to phase distance		mm	108	108	185/210	150
Rated voltage	Ur	kV 50/60 Hz	7.2	7.2	12	12
Insulation level	power frequency withstand	Ud	20/32 ⁽¹⁾	20/32 ⁽¹⁾	28/42 ⁽¹⁾	28
	lightning impulse withstand	Up	60	75	75	75
Rated operational current	Ith	A	400 ⁽²⁾	400 ⁽²⁾	315 ⁽³⁾	315 ⁽³⁾
Rated thermal current	Ie	A	400 ⁽²⁾	400 ⁽²⁾	400 ⁽³⁾	400 ⁽³⁾
Rated short-circuit breaking current	Isc	kA	6 ⁽⁴⁾	6 ⁽⁴⁾	4 ⁽⁴⁾	4 ⁽⁴⁾
Rated short-time withstand current	Ik/tk	kA/1 s	8	8	5	5
Rated peak withstand current	Ip	kA	20	20	12.5	12.5

Common characteristics according to IEC 60470			
Switch frequency		op./h	300
Mechanical endurance	for electromagnetic mechanism	op.	1,000,000
	for mechanical latch mechanism	op.	200,000
Electrical endurance at rated current		op.	250,000
Consumption closing power		W	500
Consumption holding power (magnet type)		W	80
Closing time		ms	120-200
Consumption opening power (mechanical type)		W	240
Opening time		ms	50-100
Operating rated ambient temperature		°C	-5/40
Average relative humidity	over 24 h		< 95%
	over 1 month		< 90%

- (1) The value in the brackets is specific for the China market
 (2) The rated current linked to the capacity of the fuse: 270 A with a maximum fuse size of 400 A
 (3) The rated current linked to the capacity of the fuse: 195 A with a maximum fuse size of 250 A
 (4) The rated current linked to the capacity of the fuse: 50 kA for the standard DIN fuse

Na aplicação do contator CVX-07 que tem a corrente nominal de 400 A , quando aplicado em painel PIX MCC a sua corrente nominal cai para 270 A devido a desclassificação por estar aplicado dentro de painel onde ira ter a temperatura ambiente de valor maior e a circulação do ar é menor