

TeSys contactors

3-pole vacuum contactors and reversing contactors

Selection

Contactor size		LC1 V160	LC1 V320	LC1 V610
For utilisation category AC-3				
Maximum operational current in AC-3	A	160	320	610
Rated operational power P (standard power ratings of motors)	230 V kW	45	90	160
	400 V kW	75	160	300
	525 V kW	110	220	400
	690 V kW	150	280	560
	1000 V kW	200	400	800
	1500 V kW	280	600	930
For 3-phase motors conforming to CSA standards				
Rated operational power P (standard power ratings of 3-phase CSA motors)	200 V hp	50	100	150
	240 V hp	60	125	200
	380 V hp	100	200	300
	480 V hp	125	250	400
	600 V hp	150	300	500
	800 V hp	200	400	700
	1000 V hp	250	500	1000
	1500 V hp	400	800	1300
For switching 3-phase capacitors				
Rated operational power P	240 V kVAR	47	94	176
	480 V kVAR	95	190	356
	600 V kVAR	100	200	400
	1500 V kVAR	250	500	1000
For switching the primaries of 3-phase transformers (LV/LV)				
Rated operational power P	208 V kVA	20	41	81
	240 V kVA	23	47	94
	480 V kVA	47	94	188
	600 V kVA	59	117	234

Environment characteristics

Contactor type			LC1 V160	LC1 V320	LC1 V610
Shock resistance (1/2 sine wave = 11 ms)	Contacts closed		10 gn	10 gn	10 gn
	Contacts open		10 gn	10 gn	10 gn
Vibration resistance	10...500 Hz		2 gn	2 gn	2 gn
Operating altitude	Above sea level	Maximum	m	3600	3600
	Below sea level	Minimum	m	2500	4500
Ambient air temperature around the device	Storage	°C	- 40...+ 80	- 40...+ 80	- 40...+ 80
	Operation 0.8... 1.1 Uc	°C	- 5...+ 55	- 5...+ 55	- 5...+ 55
	Permissible for operation at Uc	°C	- 10...+ 75	- 10...+ 75	- 10...+ 75
Degree of protection	Conforming to IEC 60529		IP 00	IP 00	IP 00
Operating position			Any	Any	Any
Cabling	Cable c.s.a.	mm ²	70	185	2 x 185
	Key for hex. screws	mm	Allen 4	20	20
	Tightening torque	N.m	14	39	39

Control circuit characteristics

Rated insulation voltage (Ui)	To earth	V	2000	2000	2000
Consumption	Inrush	VA	300	600	1700
	Sealed	VA	30	20	28
Permissible control circuit voltage			0.8...1.1 Uc	0.8...1.1 Uc	0.8...1.1 Uc
Closing time (1)		ms	18...22	24...32	24...32
Opening time (1)		ms	95...115	95...115	95...115

(1) The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.