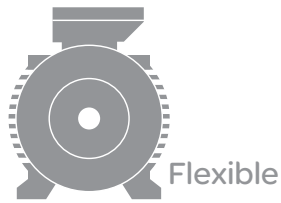
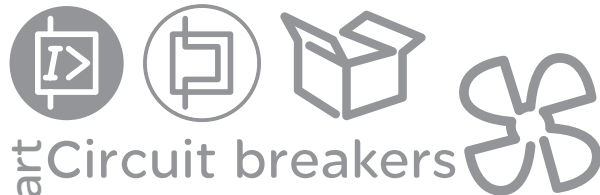


TeSys B- CV1 /3

Variable composition contactors Selection Guide



Motor starters **M**



Smart Protection
Circuit breakers
Contactors

Thermal overload relays
Fuse switch-
disconnectors



Reliable



Motor controllers



TeSys contactors

Variable composition contactors CV1

Selection guide

References

3 pole Contactors for motor control

Standard power ratings 50-60 Hz category AC-3

Basic reference to be completed by adding the voltage code (1) (2)	CSA approved ratings				220	380	415	440	500	660	Maximum rated operational current, category AC-3 A	Instantaneous auxiliary contacts per contactor		List Price
	600 VAC		600 VDC		230 VAC	400 VAC	415 VAC	440 VAC	500 VAC	690 VAC		N/O	N/C	
	HP	A	HP	A	kW	kW	kW	kW	kW	kW				
CV1BF3F0Z♦♦11	42	64	27	64	22	37	37	37	30	22	80	1	1	
CV1BG3G0Z♦♦11	85	125	54	125	55	90	100	100	75	55	170	1	1	
CV1BH3H0Z♦♦11	142	200	87	200	75	132	140	140	110	110	250	1	1	
CV1BJ3J0Z♦♦11	230	320	142	320	110	185	200	200	220	220	350	1	1	
CV1BK3K0Z♦♦11	360	500	224	500	140	250	260	260	315	315	460	1	1	
CV1BL3L0Z♦♦11	620	800	388	800	220	375	425	425	450	440 (3)	700	1	1	

(1) For other compositions, complete the contactor reference form

(2) Standard control circuit voltages

Volts	48	110	120	208	220	230	240	380	400	440
50 HZ	E5	F5	–	–	M5	P5	U5	Q5	V5	R5
60 HZ	E6	–	K6	L6	M6	P6	U6	Q6	V6	R6
50/60 HZ	E7	F7	K7	L7	M7	P7	U7	Q7	V7	R7
DC	ED	FD	KD	–	MD	PD	UD	QD	VD	–
DC + Econ. R. (4)	ER	FR	–	–	MR	PR	UR	QR	VR	–

For other voltages, please contact your Regional Sales office.

(3) With PN3 poles

(4) Econ.R.: Economy resistor



CV1 BF



CV1 BL

TeSys contactors

Variable composition contactors CV3

Selection guide

References

3 pole Contactors for motor control

Standard power ratings 50-60 Hz category AC-3

Basic reference to be completed by adding the voltage code (1) (2)	CSA approved ratings 600 VAC		220	380	415	440	500	660	1000	Maximum rated operational current, category AC-3 A	Instantaneous auxiliary contacts per contactor		List Price
	HP	A	kW	kW	kW	kW	kW	kW	kW		N/O	N/C	
	CV3BF3F0Z♦♦11	75	80	22	37	37	45	55	22		90	80	
CV3BG3W0Z♦♦11	150	160	51	90	90	90	90	132	160	200	1	1	
CV3BH3S0Z♦♦11	235	250	75	132	140	140	110	110	250	285	1	1	
CV3BJ3T0Z♦♦11	300	320	110	185	200	200	220	220	315	320	1	1	
CV1BK3V0Z♦♦11	470	500	140	250	260	260	315	315	425	460	1	1	

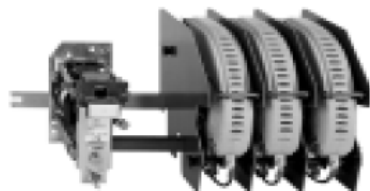
(1) For other compositions, complete the contactor reference form

(2) Standard control circuit voltages

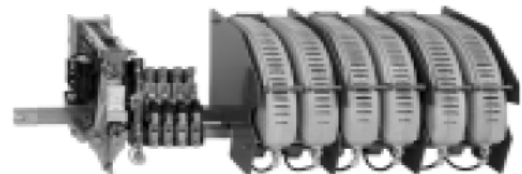
Volts	48	110	120	208	220	230	240	380	400	440
50 HZ	E5	F5	–	–	M5	P5	U5	Q5	V5	R5
60 HZ	E6	–	K6	L6	M6	P6	U6	Q6	V6	R6
50/60 HZ	E7	F7	K7	L7	M7	P7	U7	Q7	V7	R7
DC	ED	FD	KD	–	MD	PD	UD	QD	VD	–
DC + Econ. R. (3)	ER	FR	–	–	MR	PR	UR	QR	VR	–

For other voltages, please contact your Regional Sales office.

(3) Econ.R.: Economy resistor



CV3 BF



CV3 BK



LC1 BP33

TeSys contactors

Contactors LC1B

Selection guide

Contactors for motor control in category AC-3, from 750 to 1800 A (AC or DC)

3 pole Contactors

Standard power ratings 50-60 Hz category AC-3

220 230 VAC kW	380 400 VAC kW	415 440 VAC kW	440 500 VAC kW	500 660 VAC kW	660 690 VAC kW	1000 VAC kW	Rated operational Current AC-3 A	Instantaneous auxiliary contacts per contactor		Basic reference to be completed by adding the voltage code (1)	List Price
								N/O	N/C		
220	400	425	450	500	560	530	750	2	2	LC1BL33•22	
								3	1	LC1BL33•31	
								1	3	LC1BL33•13	
								4	0	LC1BL33•40	
280	500	530	560	600	670	530	1000	2	2	LC1BM33•22	
								3	1	LC1BM33•31	
								1	3	LC1BM33•13	
								4	0	LC1BM33•40	
425	750	800	800	700	750	670	1500	2	2	LC1BP33•22	
								3	1	LC1BP33•31	
								1	3	LC1BP33•13	
								4	0	LC1BP33•40	
500	900	900	900	900	900	750	1800	2	2	LC1BR33•22	
								3	1	LC1BR33•31	
								1	3	LC1BR33•13	
								4	0	LC1BR33•40	

Contact Product Marketing for CSA information

Contactors for control in category AC-1, from 800 to 2750 A (AC or DC)

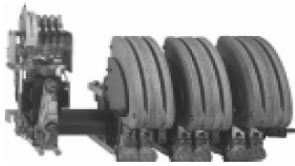
Single, 2, 3 or 4-pole contactors

Maximum rated operational current, category AC-1 A	Number of Power Poles Normally open	Instantaneous auxiliary contacts		Basic reference to be completed by adding the voltage code (1)	List Price
		N/O	N/C		
800	1	2	2	LC1BL31•22	
		3	1	LC1BL31•31	
		1	3	LC1BL31•13	
		4	0	LC1BL31•40	
	2	2	2	LC1BL32•22	
		3	1	LC1BL32•31	
		1	3	LC1BL32•13	
		4	0	LC1BL32•40	
	3	2	2	LC1BL33•22	
		3	1	LC1BL33•31	
		1	3	LC1BL33•13	
		4	0	LC1BL33•40	
	4	2	2	LC1BL34•22	
		3	1	LC1BL34•31	
		1	3	LC1BL34•13	
		4	0	LC1BL34•40	

(1) Standard control circuit voltages

Volts	48	110	120	125	127	220	230	240	380	400	415	440	500
50/400 HZ	-	F	K	-	G	M	P	U	Q	V	N	R	S
DC	ED	FD	-	GD	-	MD	-	HD	-	-	-	RD	SD

For voltages other than those indicated above, please contact you Regional Sales office
Contact Product marketing for CSA information.



LC1 BP33

TeSys contactors

Contactors LC1B

Selection guide

Contactors for control in category AC-1, from 800 to 2750 A (AC or DC) cont.

Single, 2, 3 or 4-pole contactors

Maximum rated operational current, category AC-1 A	Number of Power Poles Normally open	Instantaneous auxiliary contacts		Basic reference to be completed by adding the voltage code (1)	List Price	
		N/O	N/C			
1250	1	2	2	LC1BM31•22		
		3	1	LC1BM31•31		
		1	3	LC1BM31•13		
		4	0	LC1BM31•40		
	2	2	2	2	LC1BM32•22	
			3	1	LC1BM32•31	
			1	3	LC1BM32•13	
			4	0	LC1BM32•40	
	3	3	2	2	LC1BM33•22	
			3	1	LC1BM33•31	
			1	3	LC1BM33•13	
			4	0	LC1BM33•40	
	4	4	2	2	LC1BM34•22	
			3	1	LC1BM34•31	
			1	3	LC1BM34•13	
			4	0	LC1BM34•40	
2000	1	2	2	LC1BP31•22		
		3	1	LC1BP31•31		
		1	3	LC1BP31•13		
		4	0	LC1BP31•40		
	2	2	2	2	LC1BP32•22	
			3	1	LC1BP32•31	
			1	3	LC1BP32•13	
			4	0	LC1BP32•40	
	3	3	2	2	LC1BP33•22	
			3	1	LC1BP33•31	
			1	3	LC1BP33•13	
			4	0	LC1BP33•40	
	4	4	2	2	LC1BP34•22	
			3	1	LC1BP34•31	
			1	3	LC1BP34•13	
			4	0	LC1BP34•40	
2750	1	2	2	LC1BR31•22		
		3	1	LC1BR31•31		
		1	3	LC1BR31•13		
		4	0	LC1BR31•40		
	2	2	2	2	LC1BR32•22	
			3	1	LC1BR32•31	
			1	3	LC1BR32•13	
			4	0	LC1BR32•40	
	3	3	2	2	LC1BR33•22	
			3	1	LC1BR33•31	
			1	3	LC1BR33•13	
			4	0	LC1BR33•40	
	4	4	2	2	LC1BR34•22	
			3	1	LC1BR34•31	
			1	3	LC1BR34•13	
			4	0	LC1BR34•40	

(1) Standard control circuit voltages

Volts	48	110	120	125	127	220	230	240	380	400	415	440	500
50/400 HZ	-	F	K	-	G	M	P	U	Q	V	N	R	S
DC	ED	FD	-	GD	-	MD	-	HD	-	-	-	RD	SD

For voltages other than those indicated above, please contact you Regional Sales office
Contact Product marketing for CSA information.

Required Catalogue Number									
Type of contactor related to application									
~ 690 V, ~ 220 V/pole		CV1 B							
~ 1000 V, ~ 440 V/pole		CV3 B							
Contactor size AC-1/AC-3									
CV1 : 80/80 A	CV3 : 80/80 A	F							
CV1 : 200/170 A	CV3 : 200/200 A	G							
CV1 : 300/250 A	CV3 : 300/285 A	H							
CV1 : 470/350 A	CV3 : 320/320 A	J							
CV1 : 630/460 A	CV3 : 500/460 A	K							
CV1 : 1000/700 A		L							
Number of poles									
N/O poles	1 N/O		1						
	2 N/O		2						
	3 N/O		3						
	4 N/O		4						
	5 N/O		5						
N/C poles	1 N/C				1				
	2 N/C				2				
	3 N/C				3				
No main poles			0	Z	0	Z			
Operational current (determines the blow-out coil size)									
11 A				E		E			
13 A				M		M			
20 A				N		N			
40 A				P		P			
50 A				Q		Q			
80 A				F		F			
125 A				R		R			
200 A				G		G			
250 A				S		S			
300 A				H		H			
320 A				T		T			
400 A				U		U			
470 A				J		J			
500 A				V		V			
630 A				K		K			
1000 A				L		L			
Without breaking				Z		Z			
Control circuit voltage									
24 V						B			
48 V						E			
110 V						F			
120 V						K			
127 V						G			
208 V						L			
220 V						M			
230 V						P			
240 V						U			
380 V						Q			
400 V						V			
415 V						N			
440 V						R			
480 V						T			
500 V						S			
600 V						X			
Operating frequency									
50 Hz						5			
60 Hz						6			
50/60 Hz (rectifier + economy resistor)						7			
~						D			
~ + economy resistor						R			
Auxiliary contacts (type ZC4 GM)									
N/O instantaneous	1 N/O					1			
	2 N/O					2			
	3 N/O					3			
	4 N/O					4			
N/C instantaneous	1 N/C						1		
	2 N/C						2		
	3 N/C						3		
	4 N/C						4		
No instantaneous auxiliary contacts						0	0		
On-delay	1 C/O							J	
Off-delay	1 C/O								N

To check whether the reference combinations are possible, refer to catalogue DIA1ED2070702EN pages 44 and 46.

For other versions or interlocked contactors, please complete order form CF 452.

Date of order <input style="width:100%;" type="text"/>	Editor Geog. area <input style="width:100%;" type="text"/>	Q2C Order <input style="width:100%;" type="text"/>	Required delivery (1) <input style="width:100%;" type="text"/>	Job n° <input style="width:100%;" type="text"/>
Customer Name:		Customer P/O N°:		
Activity sector:		Application:		

Number of contactors: Type - size or catalogue number: For devices with catalogue number: Do not fill out the form below, proceed to Mechanical Interlock selection	For use by Schneider Electric
<p>POWER CIRCUIT</p> <p style="text-align: right;">AC <input type="checkbox"/> Hz DC <input type="checkbox"/></p> <p>Voltage: V</p> <p>Number of N/O main poles: Rated current: Amp Number of N/C main poles: Rated current: Amp</p> <p>Any special details:</p>	<p style="text-align: center;">Poles</p> <p>Ref: _____ Ref: _____</p>
<p>CONTROL CIRCUIT</p> <p style="text-align: right;">AC <input type="checkbox"/> Hz DC <input type="checkbox"/></p> <p>Voltage: V</p> <p>Economy resistor: <input type="checkbox"/> Yes <input type="checkbox"/> No (unless specified, an economy resistor will only be included if necessary) Customer marking:</p>	<p>Electromag: _____ Coil: _____ Coil maint. cont: _____ Rectifier: _____ Econ. resist. contact: _____ Econ. Resist.: _____</p>
<p>AUXILIARY CONTACTS AVAILABLE</p> <p>Instantaneous contacts: Number of N/O Number of N/C</p> <p>If a specific type or block of contacts is required, please indicate below. Number <input type="text"/> GM1: <input type="text"/> GM2: <input type="text"/> GP4: <input type="text"/> GP5: <input type="text"/> GP6: <input type="text"/> LA1:</p> <p>Note : For mechanical interlocking, a N/C contact must be specified for the interlocking function.</p> <p>Time delay contacts N/C + N/O : On delay <input type="checkbox"/> or Off delay <input type="checkbox"/></p> <p>Note: If LA1 is used, a build specification is required.</p>	<p>No. <u>ZC4GM1</u> : (N/O) No. <u>ZC4GM2</u> : (N/C) No. <u>ZC1GP4</u> : (N/C) No. <u>ZC1GP5</u> : (N/C+N/O) No. <u>ZC1GP6</u> : (N/O+N/O) No. <u>ZC2GG1</u> : (ON-Del) No. <u>ZC2GG5</u> : (OFF-Del)</p> <p>No. <u>LA1BN31</u> : _____ No. <u>LA1DN</u> : _____ No. <u>LA</u>DT : _____ If CV1, specif. n°: _____</p>
<p>MOUNTING</p> <p>Fixing centres L: Standard <input type="checkbox"/> Specified <input type="checkbox"/> With L =</p> <p>Mechanical interlock "MI": Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Vertically mounted reversers fixing centres "E" = mm Upper position contactor: Lower position contactor:</p> <p>If mechanical interlock specified : Ref:</p> <p>Supply linking components for the 2 contactors (Rod, clevis, cranks, lock, etc...): Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Note : "MI" components that are part of the contactor such as the bearing, clevis or lock support are factory fitted.</p>	<p>Shaft: C or E = _____ Code: _____ Bar: L = : _____ Code.: _____ Build see drwg. N° : _____ "MI" bearing W1 _____ "MI" ref _____</p>
<p>ANY SPECIAL DETAILS (Comments / Specific requirements / Special "MI" / Accessories / Etc...)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Launch date <input style="width:100%;" type="text"/></p> <p>Delivery date <input style="width:100%;" type="text"/></p> <p>Contactor reference*</p> <p>* 3 possibilities 1) Device with symbol combination (see drwg 1492177) 2) Device n° defined on the basis of this form Type/size/order n°/year. E.q.: CV1GB000599 3) Reference defined to "specification"</p>

(1) Standard delivery time: 5 weeks, from receipt of order. For faster delivery, please consult your Regional Sales Office.

Schneider Electric Canada, Inc.

5985 McLaughlin Road
Mississauga, ON L5R 1B8
Tel: 1-800-565-6699

www.schneider-electric.ca

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