

Contactors

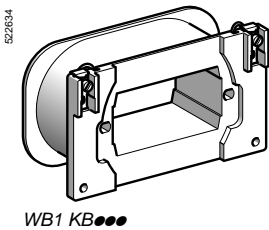
Contactors type LC1 B Replacement coils and accessories for single-pole contactors

References

The same coils are used for --- or \sim contactor control supply.

- For d.c. operation, the following must be associated with the coil:
 - 1 economy resistor arrangement (resistors + 1 or 2 auxiliary contact(s) or 1 contactor).
- For 50 to 400 Hz a.c. operation, the following must be associated with the coil:
 - 1 individual rectifier (to be wired),
 - 1 economy resistor arrangement (resistors + auxiliary contact(s) or 1 contactor) wired into the rectified current side.

Operating range min-max (1)		Coil		Economy resistor			Rectifier (for \sim only)		Coil (2)	Weight
d.c.	a.c.	Resis- tance at 20 °C $\pm 10\%$	I inrush $\pm 10\%$ at U_n max	Economy resistor Unit reference	Total resis- tance Ω	Contact Qty	Reference	Reference		
V	V	Ω	A						kg	
47-51	–	4.96	10.3	DR2 SC0270	270	1	ZC4 GM2	–	WB1 KB155	1.120
52-56	–	5.86	9.5	DR2 SC0330	330	1	ZC4 GM2	–	WB1 KB132	1.120
57-64	–	7.2	8.9	DR2 SC0390	390	1	ZC4 GM2	–	WB1 KB123	1.120
65-68	–	9.6	7.1	DR2 SC0560	560	1	ZC4 GM2	–	WB1 KB133	1.120
69-79	–	11.4	6.9	DR2 SC0680	680	1	ZC4 GM2	–	WB1 KB121	1.120
80-87	–	16.3	5.3	DR2 SC0820	820	1	ZC4 GM2	–	WB1 KB130	1.120
88-94	–	19.7	4.7	DR2 SC1000	1000	1	ZC4 GM2	–	WB1 KB140	1.120
95-108	110-125	25.2	4.3	DR2 SC1200	1200	1	ZC4 GM2	DR5 TE1U	WB1 KB134	1.120
109-136	126-155	32.5	4.2	DR2 SC1800	1800	1	ZC4 GM2	DR5 TE1U	WB1 KB124	1.120
137-151	156-173	49.7	3	DR2 SC2700	2700	2	ZC4 GM2	DR5 TE1U	WB1 KB122	1.120
152-166	174-191	61	2.7	DR2 SC3300	3300	2	ZC4 GM2	DR5 TE1U	WB1 KB135	1.120
167-189	192-216	77.2	2.4	DR2 SC3900	3900	2	ZC4 GM2	DR5 TE1U	WB1 KB136	1.120
190-221	217-256	94	2.3	DR2 SC4700	4700	2	ZC4 GM2	DR5 TE1U	WB1 KB139	1.120
222-243	257-280	128	1.9	DR2 SC6800	6800	1	LP1 D12004LD	DR5 TE1S	WB1 KB125	1.120
244-267	281-307	160	1.7	DR2 SC8200	8200	1	LP1 D12004UD	DR5 TE1S	WB1 KB137	1.120
268-318	308-365	197	1.6	DR2 SC1001	10 000	1	LP1 D12004UD	DR5 TE1S	WB1 KB126	1.120
319-405	366-463	257	1.6	DR2 SC1201	12 000	1	LP1 D12004TD	DR5 TE1S	WB1 KB138	1.120
406-446	464-500	408	1.1 (3)	DR2 SC1001	20 000	1	LP1 D12004VD	DR5 TE1S	WB1 KB127	1.120
447-500	–	507	1 (4)	DR2 SC1201	24 000	1	LP1 D12004RD	–	WB1 KB128	1.120



Specifications

- Average coil consumption (low sealed consumption):
 - d.c.: inrush 380...520 W, sealed 0.15...0.20 W
 - a.c. (with rectifier): inrush 450...620 VA, sealed 0.15...0.20 VA
- Time constant when sealed 25 ms
- Economy resistor consumption: 7...10 W
- Operating cycles/hour at $\theta \leq 55\text{ °C}$: ≤ 120
- Mechanical durability at U_c : 1.2 million operating cycles
- With a.c. operation: good resistance to voltage drop on inrush, non susceptibility to micro-breaks, mains harmonics: level ≤ 7 .

(1) For supply voltages of less than 110 V, beware of voltage drops caused by the inrush current.

(2) Standard coils: "TC" treatment. For hot and humid atmospheres "TH" treatment is available; add the suffix **TH** to the coil reference: Example: WB1 KB135 becomes **WB1 KB135TH**.

(3) 2 resistors in series $2 \times 10\,000\ \Omega$.

(4) 2 resistors in series: $2 \times 12\,000\ \Omega$.

Contactors

Contactors type LC1 B
Replacement coils and accessories
for 2-pole contactors

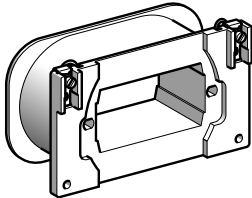
References

The same coils are used for --- or \sim contactor control supply.

- For d.c. operation, the following must be associated with the coil:
 - 1 economy resistor arrangement (resistors + 1 or 2 auxiliary contact(s) or 1 contactor).
- For 50 to 400 Hz a.c. operation, the following must be associated with the coil:
 - 1 individual rectifier (to be wired),
 - 1 economy resistor arrangement (resistors + auxiliary contact(s) or 1 contactor) wired into the rectified current side.

Operating range min-max (1)		Coil		Economy resistor		Rectifier (for \sim only)		Coil (2)		Weight
d.c.	a.c.	Resistance at 20 °C $\pm 10\%$	I inrush $\pm 10\%$ at U_n max	Resistors (2 in series) Unit reference	Total resistance	Contact Qty	Reference	Reference	Reference	kg
V	V	Ω	A		Ω					
48-51	–	3.22	15.8	DR2 SC0068	2x68	1	ZC4 GM2	–	WB1 KB141	1.120
52-56	–	4.04	13.8	DR2 SC0082	82 +	1	ZC4 GM2	–	WB1 KB142	1.120
				DR2 SC0100	100					
57-62	–	4.96	12.5	DR2 SC0100	100 +	1	ZC4 GM2	–	WB1 KB155	1.120
				DR2 SC0120	120					
63-68	–	5.86	11.6	DR2 SC0120	2x120	1	ZC4 GM2	–	WB1 KB132	1.120
69-79	–	7.2	11	DR2 SC0150	2x150	1	ZC4 GM2	–	WB1 KB123	1.120
80-85	–	9.6	8.8	DR2 SC0180	180 +	1	ZC4 GM2	–	WB1 KB133	1.120
				DR2 SC0220	220					
86-98	99-113	11.4	8.6	DR2 SC0220	220 +	1	ZC4 GM2	–	WB1 KB121	1.120
				DR2 SC0270	270					
99-108	114-125	16.3	6.6	DR2 SC0330	2x330	1	ZC4 GM2	DR5 TE1U	WB1 KB130	1.120
109-119	126-136	19.7	6	DR2 SC0390	2x390	1	ZC4 GM2	DR5 TE1U	WB1 KB140	1.120
120-136	137-156	25.2	5.4	DR2 SC0470	2x470	2	ZC4 GM2	DR5 TE1U	WB1 KB134	1.120
137-173	157-196	32.5	5.3	DR2 SC0680	2x680	2	ZC4 GM2	DR5 TE1U	WB1 KB124	1.120
174-191	197-216	49.7	3.8	DR2 SC1000	2x1000	2	ZC4 GM2	DR5 TE1U	WB1 KB122	1.120
192-210	217-238	61	3.4	DR2 SC1200	2x1200	2	ZC4 GM2	DR5 TE1U	WB1 KB135	1.120
211-238	239-272	77.2	3	DR2 SC1500	1500 +	2	ZC4 GM2	DR5 TE1U	WB1 KB136	1.120
				DR2 SC1800	1800					
239-279	273-318	94	3	DR2 SC1800	1800 +	1	LP1 D12004UD	DR5 TE1S	WB1 KB139	1.120
				DR2 SC2200	2200					
280-310	319-359	128	2.4	DR2 SC2700	2x2700	1	LP1 D12004UD	DR5 TE1S	WB1 KB125	1.120
311-341	360-387	160	2.1	DR2 SC3300	2x3300	1	LP1 D12004TD	DR5 TE1S	WB1 KB137	1.120
342-399	388-452	197	2	DR2 SC3900	2x3900	1	LP1 D12004VD	DR5 TE1S	WB1 KB126	1.120
400-500	453-500	257	1.9	DR2 SC4700	4700 +	1	LP1 D12004VD	DR5 TE1S	WB1 KB138	1.120
				DR2 SC5600	5600					

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WB1 KB●●●

Specifications

- Average coil consumption (low sealed consumption):
 - d.c.: inrush 600...800 W, sealed 0.35...0.5 W
 - a.c. (with rectifier): inrush 720...1000 VA, sealed 0.35...0.5 VA
- Time constant when sealed 25 ms
- Economy resistor consumption: 15...20 W.
- Operating cycles/hour at $\theta \leq 55$ °C: ≤ 120
- Mechanical durability at U_c : 1.2 million operating cycles
- With a.c. operation: good resistance to voltage drop on inrush, non susceptibility to micro-breaks, mains harmonics: level ≤ 7 .

(1) For supply voltages of less than 110 V, beware of voltage drops caused by the inrush current.

(2) Standard coils: "TC" treatment. For hot and humid atmospheres "TH" treatment is available; add the suffix TH to the coil reference: Example: WB1 KB135 becomes WB1 KB135TH.

Contactors

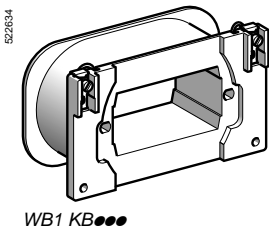
Contactors type LC1 B
Replacement coils and accessories
for 3-pole contactors

References

The same coils are used for \equiv or \sim contactor control supply.

- For d.c. operation, the following must be associated with the coil:
 - 1 economy resistor arrangement (resistors + 1 or 2 auxiliary contact(s) or 1 contactor).
- For 50 to 400 Hz a.c. operation, the following must be associated with the coil:
 - 1 individual rectifier (to be wired),
 - 1 economy resistor arrangement (resistors + auxiliary contact(s) or 1 contactor) wired into the rectified current side.

Operating range min-max (1)		Coil		Economy resistor			Rectifier (for \sim only)		Coil (2) Reference		Weight
d.c.	a.c.	Resis- tance at 20 °C $\pm 10\%$	I inrush $\pm 10\%$ at Un max	Resistors (2 in parallel or in series) Unit reference	Total resis- tance Ω	Contact Qty	Reference	Reference	Reference	kg	
V	V	Ω	A		Ω						
47-50	-	1.85	27	DR2 SC0150	2x150//	1	ZC4 GM2	-	WB1 KB154	1.120	
51-55	-	2.35	23.5	DR2 SC0180	2x180//	1	ZC4 GM2	-	WB1 KB153	1.120	
56-60	-	3.22	18.5	DR2 SC0220	2x220//	1	ZC4 GM2	-	WB1 KB141	1.120	
61-66	-	4.04	16	DR2 SC0270	2x270//	1	ZC4 GM2	-	WB1 KB142	1.120	
67-72	-	4.96	14.5	DR2 SC0330	2x330//	1	ZC4 GM2	-	WB1 KB155	1.120	
73-79	-	5.86	13.5	DR2 SC0100	2x100	1	ZC4 GM2	-	WB1 KB132	1.120	
80-92	-	7.2	12.8	DR2 SC0120	2x120	1	ZC4 GM2	-	WB1 KB123	1.120	
93-98	108-113	9.6	10.2	DR2 SC0150 DR2 SC0180	150 + 180	1	ZC4 GM2	DR5 TE1U	WB1 KB133	1.120	
99-114	114-132	11.4	10	DR2 SC0180 DR2 SC0220	180 + 220	1	ZC4 GM2	DR5 TE1U	WB1 KB121	1.120	
115-126	133-145	16.3	7.7	DR2 SC0270	2x270	2	ZC4 GM2	DR5 TE1U	WB1 KB130	1.120	
127-139	146-160	11.7	7	DR2 SC0330	2x330	2	ZC4 GM2	DR5 TE1U	WB1 KB140	1.120	
140-159	161-181	25.2	6.3	DR2 SC0390 DR2 SC0470	390 + 470	2	ZC4 GM2	DR5 TE1U	WB1 KB134	1.120	
160-201	182-228	32.2	6.2	DR2 SC0560	2x560	2	ZC4 GM2	DR5 TE1U	WB1 KB124	1.120	
202-222	229-255	49.7	4.5	DR2 SC0820	2x820	2	ZC4 GM2	DR5 TE1U	WB1 KB122	1.120	
223-246	256-282	61	4	DR2 SC1000	2x1000	1	LP1 D12004LD	DR5 TE1S	WB1 KB135	1.120	
247-277	283-316	77.2	3.6	DR2 SC1200	2x1200	1	LP1 D12004UD	DR5 TE1S	WB1 KB136	1.120	
278-327	317-372	94	3.5	DR2 SC1500	2x1500	1	LP1 D12004UD	DR5 TE1S	WB1 KB139	1.120	
328-360	373-408	128	2.8	DR2 SC2200	2x2200	1	LP1 D12004TD	DR5 TE1S	WB1 KB125	1.120	
361-399	409-452	160	2.5	DR2 SC2700	2x2700	1	LP1 D12004VD	DR5 TE1S	WB1 KB137	1.120	
400-469	453-500	197	2.4	DR2 SC3300	2x3300	1	LP1 D12004VD	DR5 TE1S	WB1 KB126	1.120	
470-500	-	257	1.9	DR2 SC3900	2x3900	1	LP1 D12004RD	-	WB1 KB138	1.120	



Specifications

- Average coil consumption (low sealed consumption):
 - d.c.: inrush 900...1100 W, sealed 0.7...1 W
 - a.c. (with rectifier): inrush 1100...1300 VA, sealed 0.7...1 VA
- Time constant when sealed 25 ms
- Economy resistor consumption: 24...30 W.
- Operating cycles/hour at $\theta \leq 55\text{ °C}$: ≤ 120
- Mechanical durability at U_c : 1.2 million operating cycles
- With a.c. operation: good resistance to voltage drop on inrush, non susceptibility to micro-breaks, mains harmonics: level ≤ 7 .

(1) For supply voltages of less than 110 V, beware of voltage drops caused by the inrush current.

(2) Standard coils: "TC" treatment. For hot and humid atmospheres "TH" treatment is available; add the suffix TH to the coil reference: Example: WB1 KB135 becomes WB1 KB135TH.

Contactors

Contactors type LC1 B
Replacement coils and accessories
for 4-pole contactors

References

The same coils are used for \equiv or \sim contactor control supply.

- For d.c. operation, the following must be associated with the coil:
 - 1 economy resistor arrangement (resistors + 1 or 2 auxiliary contact(s) or 1 contactor).
- For 50 to 400 Hz a.c. operation, the following must be associated with the coil:
 - 1 individual rectifier (to be wired),
 - 1 economy resistor arrangement (resistors + auxiliary contact(s) or 1 contactor) wired into the rectified current side.

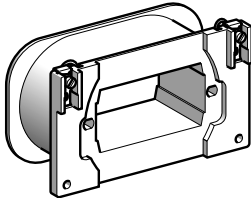
Operating range min-max (1)		Coil		Economy resistor			Rectifier (for \sim only)		Coil (2)		Weight
d.c.	a.c.	Resistance at 20 °C $\pm 10\%$	I inrush $\pm 10\%$ at U_n max	Resistors (3 in series) Unit reference	Total resistance Ω	Contact Qty	Reference	Reference	Reference		
V	V	Ω	A							kg	
57-61	–	2.35	26	DR2 SC0027	3x27	1	ZC4 GM2	–	WB1 KB153	1.120	
62-67	–	3.22	21	DR2 SC0033	3x33	1	ZC4 GM2	–	WB1 KB141	1.120	
68-73	–	4.04	18	DR2 SC0039	3x39	1	ZC4 GM2	–	WB1 KB142	1.120	
74-81	–	4.96	16.3	DR2 SC0047	3x47	1	ZC4 GM2	–	WB1 KB155	1.120	
82-89	–	5.86	15	DR2 SC0056	3x56	1	ZC4 GM2	–	WB1 KB132	1.120	
90-102	105-119	7.2	14	DR2 SC0068	3x68	1	ZC4 GM2	DR5 TE1U	WB1 KB123	1.120	
103-111	120-128	9.6	11.5	DR2 SC0100	3x100	2	ZC4 GM2	DR5 TE1U	WB1 KB133	1.120	
112-129	129-148	11.4	11.3	DR2 SC0100	3x100	2	ZC4 GM2	DR5 TE1U	WB1 KB121	1.120	
130-143	149-163	16.3	8.7	DR2 SC0150	3x150	2	ZC4 GM2	DR5 TE1U	WB1 KB130	1.120	
144-157	164-179	19.7	8	DR2 SC0180	3x180	2	ZC4 GM2	DR5 TE1U	WB1 KB140	1.120	
158-180	180-204	25.2	7.1	DR2 SC0220	3x220	2	ZC4 GM2	DR5 TE1U	WB1 KB134	1.120	
181-226	205-259	32.5	6.9	DR2 SC0330	3x330	2	ZC4 GM2	DR5 TE1U	WB1 KB124	1.120	
227-251	260-288	49.7	5	DR2 SC0470	3x470	1	LP1 D12004LD	DR5 TE1S	WB1 KB122	1.120	
252-278	289-317	61	4.5	DR2 SC0560	3x560	1	LP1 D12004UD	DR5 TE1S	WB1 KB135	1.120	
279-313	318-356	77.2	4	DR2 SC0680	3x680	1	LP1 D12004UD	DR5 TE1S	WB1 KB136	1.120	
314-368	357-418	94	3.9	DR2 SC0820	3x820	1	LP1 D12004TD	DR5 TE1S	WB1 KB139	1.120	
369-408	419-462	128	3.2	DR2 SC1200	3x1200	1	LP1 D12004VD	DR5 TE1S	WB1 KB125	1.120	
409-448	463-500	160	2.8	DR2 SC1500	3x1500	1	LP1 D12004VD	DR5 TE1S	WB1 KB137	1.120	
449-500	–	197	2.5	DR2 SC1800	3x1800	1	LP1 D12004RD	–	WB1 KB126	1.120	

Specifications

- Average coil consumption (low sealed consumption):
 - d.c.: inrush 1100...1400 W, sealed 1.2...1.6 W
 - a.c. (with rectifier): inrush 1300...1600 VA, sealed 1.2...1.6 VA
- Time constant when sealed 25 ms
- Economy resistor consumption: 35...45 W.
- Operating cycles/hour at $\theta \leq 55$ °C: ≤ 120
- Mechanical durability at U_c : 1.2 million operating cycles
- With a.c. operation: good resistance to voltage drop on inrush, non susceptibility to micro-breaks, mains harmonics: level ≤ 7 .

(1) For supply voltages of less than 110 V, beware of voltage drops caused by the inrush current.
 (2) Standard coils: "TC" treatment. For hot and humid atmospheres "TH" treatment is available; add the suffix TH to the coil reference: Example: WB1 KB135 becomes WB1 KB135TH.

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WB1 KB●●●