

Coil Voltage Code for Completing Order Codes

a.c. Coils



Contactors and contactor relays:

A..., UA..., UA...RA, GA... and N...

Voltage V - 50Hz	Voltage V - 60Hz	(1) Code
24	24	8 1
26	28	1 6
28	32	1 7
42	42	8 2
42	48	2 0
48	48	8 3
60	60	7 3
100 ⁽³⁾	100 ... 110 ⁽³⁾	7 4
105 ⁽³⁾	110 ... 127 ⁽³⁾	2 6
110	110 ... 120	8 4
110 ... 115	115 ... 127 ⁽²⁾	8 9
120	140	2 9
125 ... 127	150	3 0
175	208	3 4
190	220	3 6
210	240	4 0
220 ... 230	230 ... 240	8 0
230 ... 240	240 ... 260	8 8
230 ... 240	277	4 2
380 ... 400	400 ... 415	8 5
400 ... 415	415 ... 440	8 6
400	440	5 0
400 ... 415	480	5 1
415 ... 440	440 ... 460	8 7
440	500	5 3
500	600	5 5
550	—	5 6
660 ... 690	—	5 8
—	690	5 9

(1) Codes in bold for dual frequency coils.

(2) A 145 ... A 300 contactors at 60 Hz 115 V only.

(3) Not for A 145 ... A 300 contactors.

Dual Voltage Coils

Contactors and contactor relays:

A 9, A 12, A 16 and N...

Voltage V - 50Hz	Voltage V - 60Hz	Code
230/400	—	6 2
—	230/400	6 3

Contactors:

EK 110 ... EK 210

Voltage V - 50Hz	Voltage V - 60Hz	Code
—	24	A A
24	—	A B
—	48	A C
48	—	A D
—	110	A E
110	120	A F
127	—	A G
—	208	A Z
190	220	A H
—	240	A K
220 ... 230	—	A L
230 ... 240	—	A M
—	380	A N
380 ... 400	440	A P
400 ... 415	—	A R
—	480	A S
440	—	A T
500	—	A U
—	600	A V

Multi-frequency Coils

Contactors:

EK 110 ... EK 210

Voltage V - 40 ... 400Hz	Code
110 ... 120	E F
115 ... 127	E G
220 ... 230	E L
230 ... 240	E M
380 ... 400	E P
400 ... 415	E R

Contactors:

EK 370 ... EK 1000

Voltage V - 50Hz	Voltage V - 60Hz	Code
48	—	A D
—	110	A E
110	120	A F
127	—	A G
—	208	A Z
190	220	A H
—	240	A K
220 ... 230	240	A L
230 ... 240	—	A M
—	380	A N
380 ... 400	440	A P
400 ... 415	—	A R
—	480	A S
440	—	A T
500	—	A U
—	600	A V

Dual frequency coils

2 auxiliary contact blocks maximum per contactor, ambient temperature ≤ 55 °C and mounting positions 2 and 6 excluded.

Contactors:

EK 370 ... EK 1000

Voltage V - 50Hz	Voltage V - 60Hz	Code
110	110 ... 120	E F
110 ... 115	115 ... 127	E G
220	220 ... 240	E L
220 ... 230	230 ... 255	E M
380	380 ... 415	E P
380 ... 400	400 ... 440	E R

a.c. / d.c. Coils with Electronic Coil Interface



Contactors: **AF 45 ... AF 300**

Voltage V - 50/60Hz	Voltage V - d.c.	Code
—	20 ... 60	7 2
48 ... 130	48 ... 130	6 9
100 ... 250	100 ... 250	7 0

Contactors: **AF 1350, AF 1650**

Voltage V - 50/60Hz	Voltage V - d.c.	Code
100 ... 250	100 ... 250	7 0

Contactors: **AF 400 ... AF 750**

Voltage V - 50/60Hz	Voltage V - d.c.	Code
—	24 ... 60	6 8
48 ... 130	48 ... 130	6 9
100 ... 250	100 ... 250	7 0
250 ... 500	250 ... 500	7 1

d.c. Coils



Standard Coils

Contactors and contactor relays:

AL..., AE..., GAE..., AM..., NL...

Voltage V - d.c.	Code
12	8 0
24	8 1
42	8 2
48	8 3
50	2 1
60	8 4
75	8 5
110	8 6
125	8 7
220	8 8
240	8 9
250	3 8

Contactors and contactor relays:

AL...Z, NL Z...

Tension V - d.c.	Code
24	1 5
48	2 0

Contactors:

EK 110 ... EK 1000

Voltage V - d.c.	Code
12 *	D A
24	D B
36	D C
48	D D
60	D T
75	D G
110	D E
125	D U
220	D F

* Not for EK 370 ... EK 1000 contactors.

Large Voltage Range Coils

Contactors and contactor relays:

TAL..., TAE... and TNL...

U _c min. ... U _c max. V - d.c.	Code
17 ... 32	5 1
25 ... 45	5 2
36 ... 65	5 4
42 ... 78	5 8
50 ... 90	5 5
77 ... 143	6 2
90 ... 150	6 6
152 ... 264	6 8



Voltage tolerances included in the U_c min. ... U_c max. voltage range. Other voltages: please consult us.

General Information for Ordering and Packaging

Ordering Details

When placing an order give either the **Order Code** or **Type**.

In most cases these are completed with other references, e.g. a contactor's coil voltage. This is why the order codes and types figuring in the "Ordering Details" tables have boxes and to be completed.

Packaging

● Individual standard packaging

Contactors, contactor relays, thermal overload relays and other basic products are supplied in **individual packaging**. Some small contactors (e.g. B6 and B7 - Section 6) or accessories are in **individual batches of "n" pieces** as indicated in the "Packaging" column of the "Ordering Details" table.

The weight and order code always correspond to a single part.

Other products are supplied as a "set" and are thus marked in the "Packaging" column of the "Ordering Details" table. In this case, the weight and order code correspond to a set.

● Collective packaging

To limit the amount of wasted packaging, simplify handling and checking of deliveries, we offer the **collective packaging** solution.

The weight and order code correspond to a single part.

Products chosen for this type of packaging are detailed below.

Type	Order code	Packing pieces	Weight kg	Product features
state coil voltage	state coil voltage code		1 piece	page
3-pole - a.c. operated contactors				
A 9-30-10	1SBL 141 001 T 10	10	0.34	2/6
A 9-30-01	1SBL 141 001 T 01	10	0.34	2/6
A 9-30-22	1SBL 141 001 T 22	10	0.40	2/6
A 9-30-32	1SBL 141 001 T 32	10	0.40	2/6
A 12-30-10	1SBL 161 001 T 10	10	0.34	2/6
A 12-30-01	1SBL 161 001 T 01	10	0.34	2/6
A 12-30-22	1SBL 161 001 T 22	10	0.40	2/6
A 12-30-32	1SBL 161 001 T 32	10	0.40	2/6
A 16-30-10	1SBL 181 001 T 10	10	0.34	2/6
A 16-30-01	1SBL 181 001 T 01	10	0.34	2/6
A 16-30-22	1SBL 181 001 T 22	10	0.40	2/6
A 16-30-32	1SBL 181 001 T 32	10	0.40	2/6
A 26-30-10	1SBL 241 001 T 10	10	0.60	2/6
A 26-30-01	1SBL 241 001 T 01	10	0.60	2/6
4-pole - a.c. operated contactors				
A 9-40-00	1SBL 141 201 T 00	10	0.34	2/22
A 16-40-00	1SBL 181 201 T 00	10	0.34	2/22
A 26-40-00	1SBL 241 201 T 00	10	0.61	2/22
4-pole - a.c. operated, 1 stack contactor relays				
N 22 E	1SBH 141 001 T 22	10	0.34	3/4
N 31 E	1SBH 141 001 T 31	10	0.34	3/4
N 40 E	1SBH 141 001 T 40	10	0.34	3/4
8-pole - a.c. operated, 2 stack contactor relays				
N 44 E	1SBH 141 001 T 44	10	0.40	3/4
N 53 E	1SBH 141 001 T 53	10	0.40	3/4
N 62 E	1SBH 141 001 T 62	10	0.40	3/4
N 71 E	1SBH 141 001 T 71	10	0.40	3/4
N 80 E	1SBH 141 001 T 80	10	0.40	3/4
Replacement coils for A 9..., A 12..., A 16... and N... contactors				
ZA 16	1SBN 151 410 T 06	10	0.08	4/34

Type	Order code	Packing pieces	Weight kg	Product features
			1 piece	page
Auxiliary contact blocks				
CA 5-10	1SBN 010 010 W1010	60	0.014	4/2
CA 5-01	1SBN 010 010 W1001	60	0.014	4/2
CAL 5-11	1SBN 010 020 W1011	100	0.050	4/4
Interface blocks				
RA 5	1SBN 060 000 T1001	10	0.050	4/18
Electronic timers				
TE5S-24	1SBN 020 010 T1001	10	0.080	4/6
TE5S-120	1SBN 020 010 T1002	10	0.080	4/6
TE5S-240	1SBN 020 010 T1003	10	0.080	4/6
TE5S-440	1SBN 020 010 T1004	10	0.080	4/6

Additional code for a.c. coil voltages



Voltage V - 50Hz	Voltage V - 60Hz	Code
24	24	8 1
42	42	8 2
48	48	8 3
110	110 ... 120	8 4
110 ... 115	115 ... 127	8 9
220 ... 230	230 ... 240	8 0
230 ... 240	240 ... 260	8 8
380 ... 400	400 ... 415	8 5
400 ... 415	415 ... 440	8 6
415 ... 440	440 ... 460	8 7