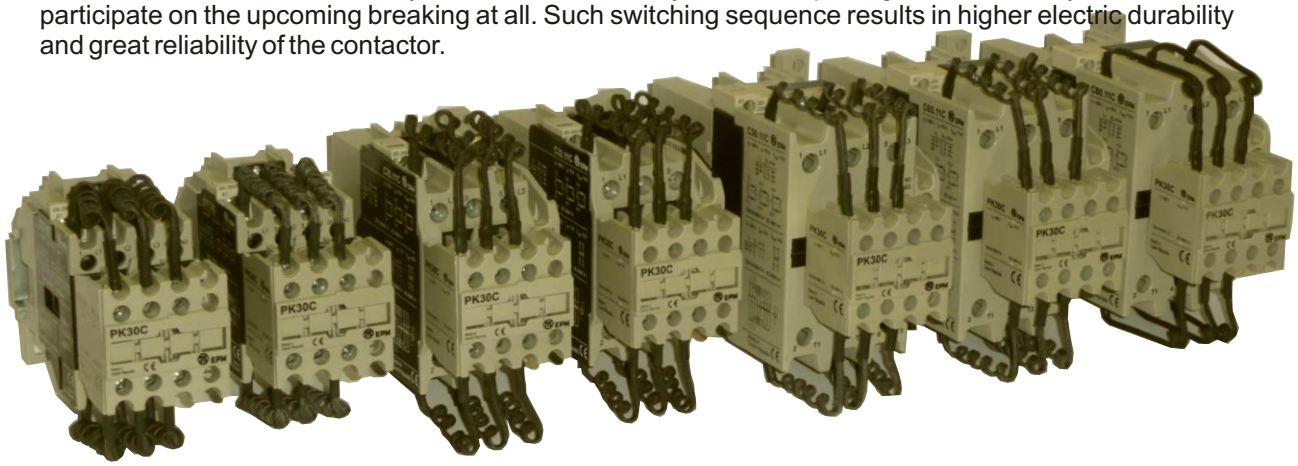
Contactors for switching of capacitive loads

The new series of special EPM contactors is intended for switching of capacitive loads in the category AC-6b acc. to the EN 60947-4-1, particularly for switching of capacitor banks in the power factor compensation devices.
To reduce harmful effects of charging and equalizing currents, these contactors connect the capacitive load in two steps. At first the auxiliary contacts close and connect the load to the mains through the series resistors; therefore the peak current is limited. Consequently, the main contacts close and bridge over the series resistors. Immediately after that the auxiliary contacts open again - that is why those do not participate on the upcoming breaking at all. Such switching sequence results in higher electric durability and great reliability of the contactor.



Type	C12.10C	C17.10C	C25.11C	C32.11C	C50.11C	C65.11C	C80.11C
Main circuit							
Rated insulation voltage U_{imp} [V]	690	690	690	690	690	690	690
Convent. free air therm. current I_{th} [A]	25	25	50	50	85	85	95
Max. reactive power of cap. AC-6b							
at ambient temperature [°C]	≤40 ≤55 ≤70	≤40 ≤55 ≤70	≤40 ≤55 ≤70	≤40 ≤55 ≤70	≤40 ≤55 ≤70	≤40 ≤55 ≤70	≤40 ≤55 ≤70
at 220-230V [kVA]	7 7 6,25	8 8 7	10 10 10	15 15 15	25 25 25	30 30 25	35 35 30
at 380-400 V [kVA]	10 10 10	12,5 12,5 11	17 17 17	25 25 25	40 40 40	50 50 45	60 60 50
at 500 V [kVA]	13 13 13	15 15 12,5	20 20 20	30 30 30	50 50 50	60 60 55	70 70 60
at 690 V [kVA]	15 15 15	17 17 15	25 25 25	34 34 34	60 60 60	70 70 67	80 80 70
Max. number of on-load op. cycles per hour in AC-6b	300	300	300	300	300	300	300
El. durability in AC-6b [op.cycles]	$0,1x10^6$	$0,1x10^6$	$0,1x10^6$	$0,1x10^6$	$0,1x10^6$	$0,1x10^6$	$0,1x10^6$
Recommended fuse char. gG [A]	25	25	40	50	80	80	100
Typ of coordination with SCPD	1	1	2	2	2	2	2
Mechanical durability [op.cycles]	$3x10^6$	$3x10^6$	$3x10^6$	$3x10^6$	$3x10^6$	$3x10^6$	$3x10^6$
Terminal type	screw	screw	pillar	pillar	pillar	pillar	pillar
Screw type and size	M3,5	M3,5	M5	M5	M6	M6	M6
Max. cross-section - solid	1..4	1..4	1,5..10	1,5..10	2,5..25	2,5..25	2,5..25
flexible	1..2,5	1..2,5	1,5..10	1,5..10	2,5..25	2,5..25	2,5..25
Auxiliary contacts							
Rated insulation voltage U_i [V]	690	690	690	690	690	690	690
Convent. free air therm. current I_{th} [A]	12	12	12	12	12	12	12
Rated operational current I_e in AC-15							
at 220-230 V	4	4	4	4	4	4	4
at 380-400 V	2	2	2	2	2	2	2
El. durability in AC-15							
at 220-230 V, 4 A [op.cycles]	$0,8x10^6$	$0,8x10^6$	$0,8x10^6$	$0,8x10^6$	$0,8x10^6$	$0,8x10^6$	$0,8x10^6$
at 380-400 V, 2 A [op.cycles]	10^6	10^6	10^6	10^6	10^6	10^6	10^6
Config. of NO/NC aux. contacts	1-0	1-0	1-1	1-1	1-1	1-1	1-1
Control circuit							
AC coil control voltage [V]	220-230 380-400 500	220-230 380-400 500	220-230 380-400 500	220-230 380-400 500	220-230 380-400 500	220-230 380-400 500	220-230 380-400 500
Pull-in input power of AC control coil ±10% [VA]	60	60	83	83	140	140	140
Hold-in input power of AC control coil ±10% [VA/W]	10,5/3,9	10,5/3,9	14,2/4	14,2/4	23/5,7	23/5,7	23/5,7
Outline dimensions W x H x D [mm]	45x90x105	45x90x105	56x105x122,5	56x105x122,5	70x120x147	70x120x147	70x120x147
Mass [kg]	0,36	0,36	0,6	0,6	1,1	1,1	1,1
Degree of protection	IP20/IP10	IP20/IP10	IP20/IP10	IP20/IP10	IP20/IP10	IP20/IP10	IP20/IP10

*A 6 mm^2 copper wire is to be used for I_{th}=50 A: the 24-hour average ambient temperature must not exceed 35°C.
*A 25 mm^2 copper conductor is to be used for I_{th}=95 A: the 24-hour average ambient temperature must not exceed 35°C.

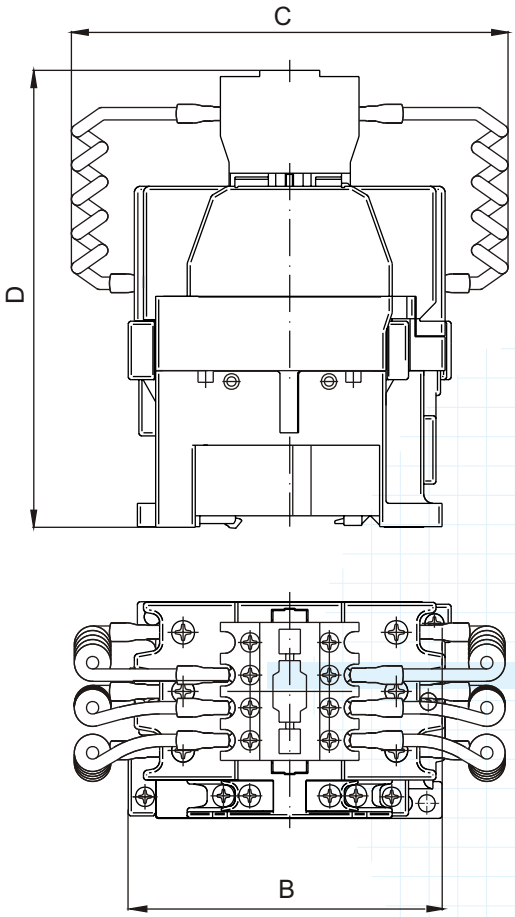
2009

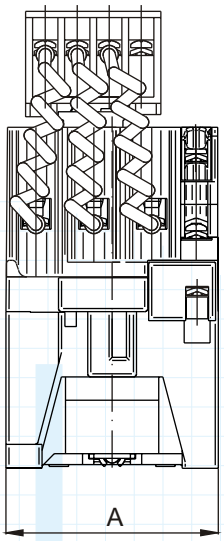
Elektropřístroj s. r. o.
Mezi Vodami 1955
143 04 Praha 4 Modřany, Czech Republic

http://www.epm.cz

Tel.: + 420 261 106 465
Fax: + 420 261 106 106
e-mail: epm@epm.cz

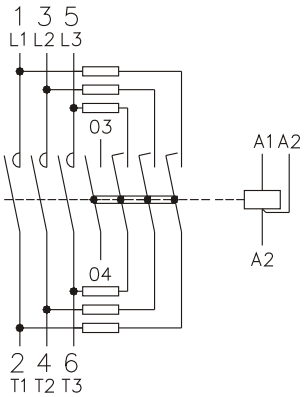
Outline drawing of contactors C12.10C, C17.10C, C25.11C, C32.11C, C50.11C, C65.11C, C80.11C



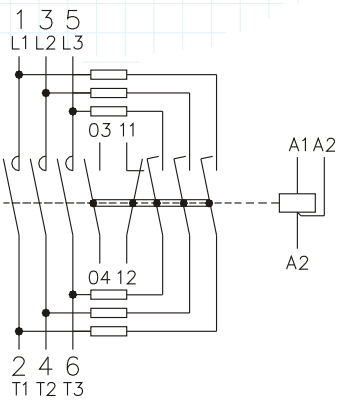


	A	B	C	D
C12.10C, C17.10C	45	78,5	90	105
C25.11C, C32.11C	56	90	105	122,5
C50.11C, C65.11C, C80.11C	70	106.5	120	147

C12.10C, C17.10C



C25.11C, C32.11C, C50.11C, C65.11C, C80.11C



Elektropřístroj s. r. o.
Mezi Vodami 1955
143 04 Praha 4 Modřany, Czech Republic

http://www.epm.cz

Tel.: + 420 261 106 465
Fax: + 420 261 106 106
e-mail: epm@epm.cz