DC controlled contactors

These contactors are determined to operate in categories AC-1, AC-3, DC-1, DC-3 or DC-5 acc. to EN 60947-1. The innovated DC controlling of EPM contactors significantly reduces their own consumption of electricity. That way of DC controlling also allows to keep the outline dimensions same as the AC ones; as a result, the same scale of accessories can be employed for both the AC and DC controlled contactors. Contactors are delivered either with standard **DC D** coils with operational range -15 % . . + 10 % from the control voltage, or special **DC DL** coils with operational range -30 % . . +25 %.
Rated coil voltages are: 12 V; 24 V; 48 V; 110 V; 220 V.



Technical data to the DC controlled EPM contactors in AC utilization categories

Motor output AC-3 [kW]				Rated current AC-1 / AC-3 [A]	Pull-in input [W]	Hold-in input [W]	Type	Wiring diagram
230V	400V	500V	690V					
2,2	4	5,5	5,5	25 / 9	55 .. 98	1,98 .. 3,30	**C9.00**	C9.00 - C23.00
2,2	4	5,5	5,5	25 / 9	55 .. 98	1,98 .. 3,30	**C9.00; C9.0040 PK21T**	
-	-	-	-	25 / -	55 .. 98	1,98 .. 3,30	**C9.0022 PK21T**	
3	5,5	7,5	7,5	25 / 12	55 .. 98	1,98 .. 3,30	**C12.00**	
4	7,5	9	9	25 / 16	55 .. 98	1,98 .. 3,30	**C17.00**	C9.0022 PK21T, C23.0040 PK21T
5,5	11	9	9	25 / 23	55 .. 98	1,98 .. 3,30	**C23.00**	
5,5	11	9	9	25 / 23	55 .. 98	1,98 .. 3,30	**C23.00; C23.0040 PK21T**	
-	-	-	-	25 / -	55 .. 98	1,98 .. 3,30	**C23.0022 PK21T**	C9.0022 PK21T, C23.0022 PK21T
5,5	75	11	11	25 / 16	80 .. 150	2,6 .. 2,8	**C20.10**	
7,5	11	11	11	32 / 25	80 .. 150	2,6 .. 2,8	**C25.10**	
11	15	18,5	18,5	44 / 32	80 .. 150	2,6 .. 2,8	**C32.10**	
12,5	20	18,5	18,5	50 / 40	80 .. 150	2,6 .. 2,8	**C40.10**	C20.10 - C80.10
15	25	30	30	60 / 50	170 .. 190	3,5 .. 3,9	**C50.10**	
18,5	30	37	37	75 / 65	170 .. 190	3,5 .. 3,9	**C65.10**	
22	37	45	45	85 / 80	170 .. 190	3,5 .. 3,9	**C80.10**	
25	45	55	55	110 / 95	180 .. 240	3,2 .. 4,1	**C95.11**	C95.11 - C150.11
30	55	75	55	130 /115	180 .. 240	3,2 .. 4,1	**C115.11**	
45	75	83	55	150 /150	180 .. 240	3,2 .. 4,1	**C150.11**	

never remove the pre-wired links between coil terminals and the delayed NC auxiliary contact

Technical data to the DC controlled EPM contactors in DC utilization categories

Switched current [A]			Rated operational voltage [V DC]	Pull-in input [W]	Hold-in input [W]	Type	Wiring diagram
DC-1	DC-3	DC-5					
25	12	8	220	55 .. 98	1,98 .. 3,30	**C9.00; C9.0040 PK21T**	C9.00 - C23.00
25	12	8	110	55 .. 98	1,98 .. 3,30	**C9.0022 PK21T**	
25	12	8	220	55 .. 98	1,98 .. 3,30	**C12.00**	
25	12	8	220	55 .. 98	1,98 .. 3,30	**C17.00**	C9.0022 PK21T, C23.0040 PK21T
25	12	8	220	55 .. 98	1,98 .. 3,30	**C23.00; C23.0040 PK21T**	
25	12	8	110	55 .. 98	1,98 .. 3,30	**C23.0022 PK21T**	
32	16	12	220	80 .. 150	2,6 .. 2,8	**C20.10**	C9.0022 PK21T, C23.0022 PK21T
32	16	12	220	80 .. 150	2,6 .. 2,8	**C25.10**	
32	25	16	220	80 .. 150	2,6 .. 2,8	**C32.10**	
44	25	16	220	80 .. 150	2,6 .. 2,8	**C40.10**	
85	44	32	220	170 .. 190	3,5 .. 3,9	**C50.10**	C20.10 - C80.10
85	44	32	220	170 .. 190	3,5 .. 3,9	**C65.10**	
85	44	32	220	170 .. 190	3,5 .. 3,9	**C80.10**	
			220	180 .. 240	3,2 .. 4,1	**C95.11**	C95.11 - C150.11
			220	180 .. 240	3,2 .. 4,1	**C115.11**	
			220	180 .. 240	3,2 .. 4,1	**C150.11**	

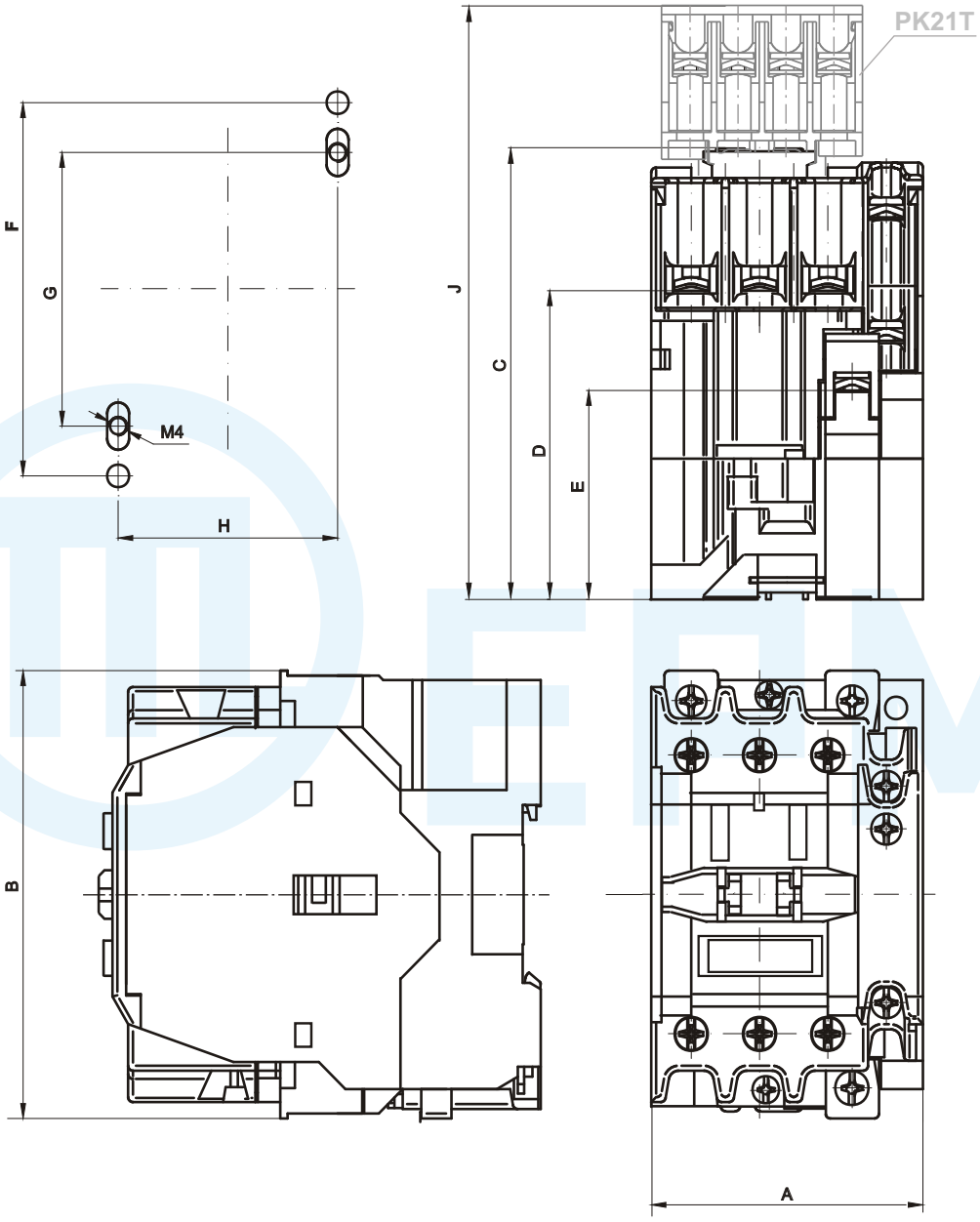
never remove the pre-wired links between coil terminals and the delayed NC auxiliary contact

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 C9.00 ... C150.11



Type	A	B	C	D	E	F	G	H	J
C9.00; C12.00 C17.00; C23.00	45	78.5	73	67.5	54.5	–	50-60	35	–
C9.0040 PK21T; C23.0040 PK21T C9.0022 PK21T; C23.0022 PK21T	45	78.5	73	67.5	54.5	–	50-60	35	104.7
C20.10; C25.10 C32.10; C40.10	56	90	91	62	42	75	50-60	45	–
C50.10; C65.10 C80.10	70	107	116	77	55	90	75	60	–
C95.11; C115.11 C150.11	85	120	127	80.3	55	100	–	45	–

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