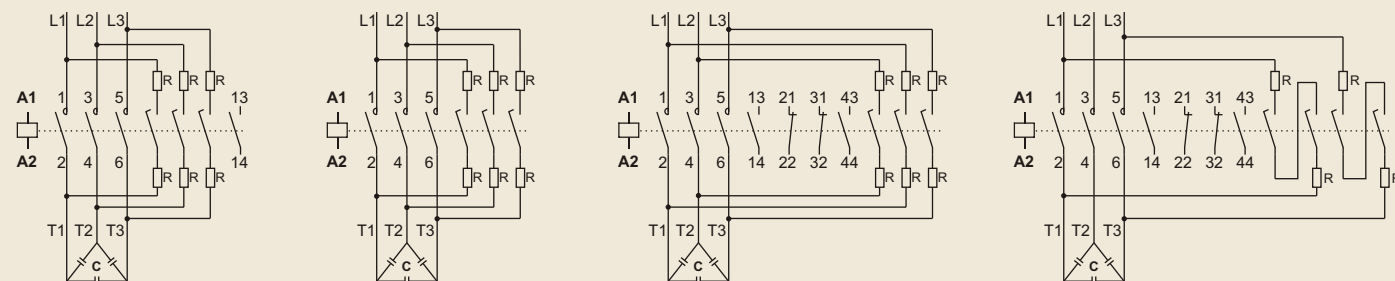


CONNECTION DIAGRAMS AND TERMINAL MARKINGS



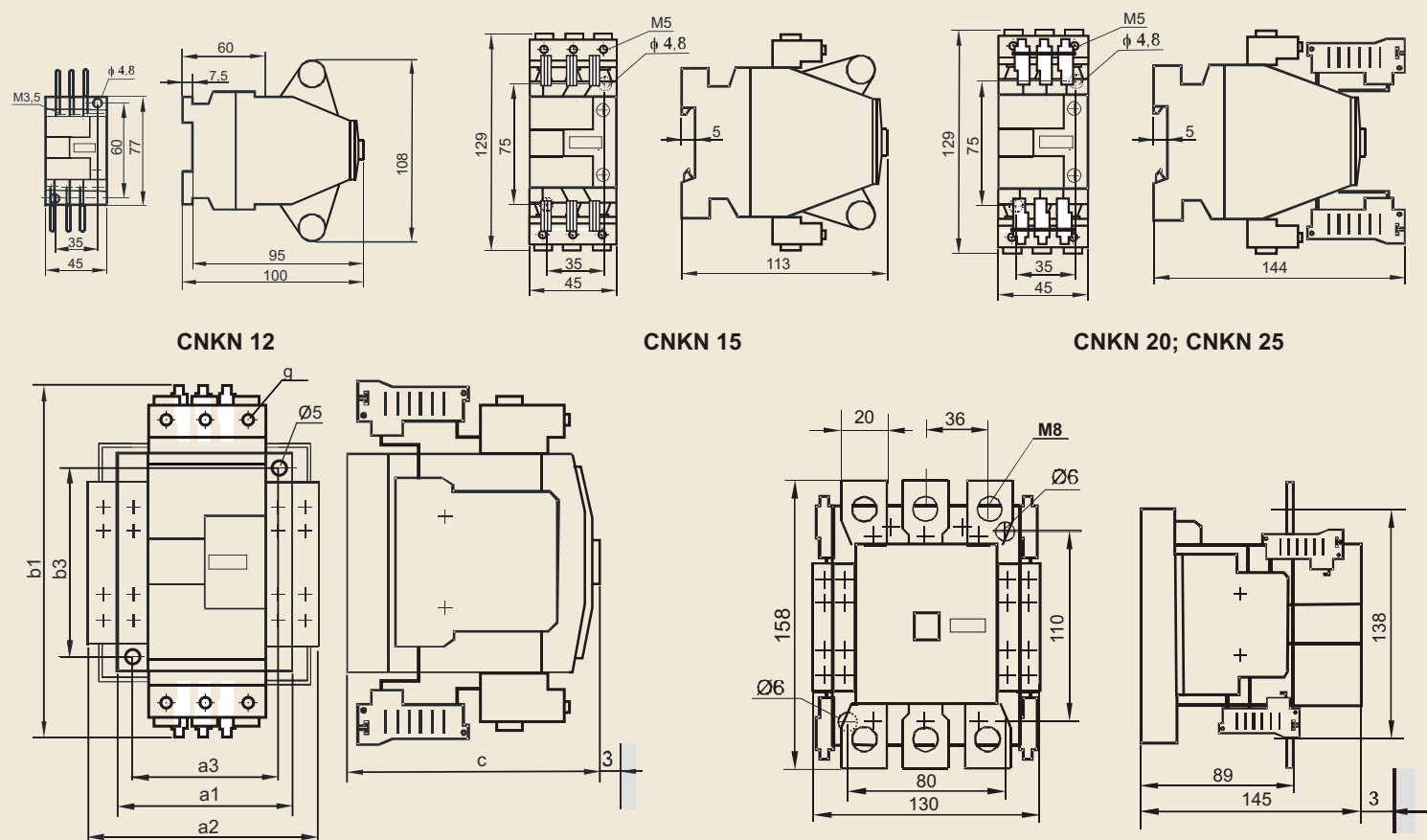
CNKN 12 10, CNKN 15 10
CNKN 20 10, CNKN 25 10

CNKM 30 00
CNKM 40 00
CNKM 50 00

CNKM 40 22, CNKM 50 22

CNKM 60 22

DIMENSION DRAWINGS (mm)



TYPE	a1	a2	a3	b1	b3	c	g
CNKM 30	74	-	50	170	75	100	M5
CNKM 40	90	116	70	180	100	120	M6
CNKM 50	90	116	70	180	100	120	M6



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CAPACITOR CONTACTORS



SERIE: CNKN and CNKM



CAPACITOR CONTACTORS TYPE CNKN, CNKM
FOR SWITCHING OF 3-PHASE CAPACITOR BANKS

IEC 60947-1, IEC 60947-4, VDE 0660



Type designation		CNKN 12 10 ¹ CNKN 12 01 ¹	CNKN 15 10 ¹ CNKN 15 01 ¹	CNKN 20 10 ¹ CNKN 20 01 ¹	CNKN 25 10 ¹ CNKN 25 01 ¹	CNKM 30 00 ²	CNKM 40 00 ² CNKM 40 22 ²	CNKM 50 00 ² CNKM 50 22 ²	CNKM 60 22 ²	
AC-6b utilization category for switching three-phase capacitors										
Capacitor rating	at 230 V	kVAr	6.7	8.5	11	14	20	25	29	34
	400 V	kVAr	12	15	20	25	30	40	50	60
Rated operational current I _e /AC6b	at 400 V	A	18	22	28	35	44	58	72	87
Insulating rating	V		690	690	690	690	690	750	750	1000
Maximum permissible fuse gL-gG										
main circuit	A		35	50	50	63	80	100	125	160
auxiliary circuit	A		16	16	16	16	16	16	16	16
Frequency of switching operation	cy/h		240	120	120	120	100	100	100	100
Electrical endurance	x10 ⁶	0.1								
Permissible ambient temperature	°C	-25 to +55								
Rated control voltage	V/Hz	24 - 500/50								
Sizes of connecting conductors - main circuit										
multi-wire conductor	mm ²	2.5-4	6-25	6-25	6-25	6-25	16-35	16-35	-	-
multi-wire conductor with cable shoe	mm ² /M	-	-	-	-	-	-	-	-	50/8
Version / First: number of make, second: number of brake aux. contacts	NO NC		10, 01	10, 01	10, 01	10, 01	00	00, 22	00, 22	22
Weights	kg		0.49	0.68	0.69	0.72	0.95	1.51	1.53	2.4

¹ These CNKN contactors are equipped with early-make contacts.
This special type of contact has the purpose of connecting for a very brief interval, 2-3ms, during the contactor closing, resistors which limit the connecting current of the capacitors.

² These CNKM contactors are equipped with early-make contacts.
This special type of contact has the purpose of connecting for a very brief interval, 2-3ms, during the contactor closing, resistors which limit the connecting current of the capacitors.
These resistors are then excluded when the closing operation is complete and the current capacity is conveyed to the main contacts. With this type of circuit, it is possible to obtain minor wear of all the components of the system especially fuses and capacitors ensuring a longer life and better reliability.

ORDER:

Type designation

Standard control voltage AC: 24, 48, 110, 220/230,380/400 V

For AC control: 50 Hz or 60 Hz

Example: Capacitor contactor type CNKM 50 22 with two NO and two NC auxiliary contacts, control voltage 220 V, 50 Hz

CNKM 50 22 220 V 50 Hz