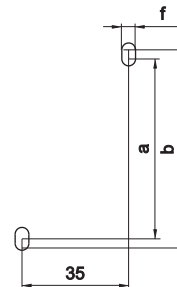
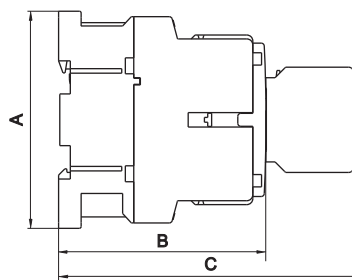
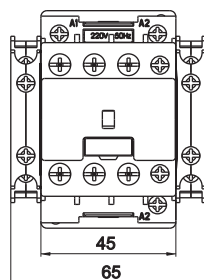
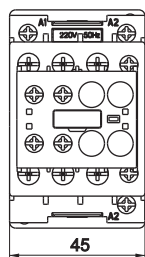
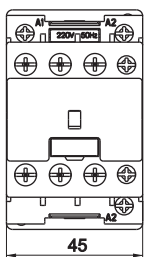


Technical specification - CNN9

Contactor type		CNN 9		
AC2 and AC3 utilization categories (slip-ring and cage motors at 50Hz)	for 230 V	kW	3,2	
	400 V	kW	4,5	
	690 V	kW	5,5	
AC4 utilization category (electrical endurance of contacts:120.000 (80.000 for CM1)) rated current $I_e/AC4$ ratings of squirrel-cage motors at 50 Hz	(50.000 for CM1..N)	A	4.5	
	for 230 V	kW	0.75	
	400 V	kW	1.9	
	500 V	kW	1.9	
	690 V	kW	1.5	
Loadability by direct current DC1 utilization category, non-inductive loads $L/R \leq 1$ ms				
rated operational current I_e , 55°C through one pole	for 24 V	A	20	
	48 V	A	20	
	110 V	A	2.1	
	220 V	A	0.8	
	440 V	A	0.6	
	600 V	A	0.6	
through three poles connected in series	for 24 V	A	20	
	48 V	A	20	
	110 V	A	20	
	220 V	A	20	
	440 V	A	1.3	
utilization categories DC3 to DC5 series and shunt motors ($L/R \leq 15$ ms)	600 V	A	1	
	rated operational current I_e , 55°C through one pole	for 24 V	A	20
		60 V	A	5
		110 V	A	1.5
		220 V	A	0.75
440 V		A	-	
through three poles connected in series	600 V	A	-	
	for 24 V	A	20	
	60 V	A	20	
	110 V	A	20	
	220 V	A	1.5	
440 V	A	0.2		
600 V	A	0.2		

CNN 9; CNN 12; CNN 9 (CNNB 9) + BP2 (BP4) CNN 9 (CNNB 9) + 2xBP3
 CNN 18; CNN 22 CNN 12 (CNNB 12) + BP2 (BP4) CNN 12 (CNNB 12) + 2xBP3
 CNNB 9; CNNB 12; CNN 18 (CNNB 18) + BP2 (BP4) CNN 18 (CNNB 18) + 2xBP3
 CNNB 18; CNNB 22 CNN 22 (CNNB 22) + BP2 (BP4) CNN 22 (CNNB 22) + 2xBP3

CNN 9; CNN 12; CNN 18;
 CNNB 9; CNNB 12; CNNB 18



TYPE	CNN 9 - CNN 22	CNNB 9 - CNNB 22
A	72.2	74.2
B	71	114.5
C	101	146.8

TYPE	CNN 9 - CNN 22	CNNB 9 - CNNB 22
a	60	50
b	65	60
f	4.5	4.6