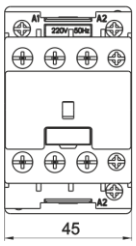
RADE KONCAR CONTACTOR **CNN12**
12A/5,7kW (AC3, 400V/50Hz); 25A(AC1)

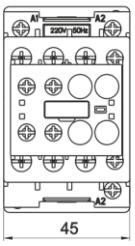
Contactor type				**CNN 12**
Mechanical endurance	make/brake operations		$x10^6$	5
Insulation rating			V	690
Permissible ambient temperature			°C	from -25 to +55
Consumption of electromagnet in cold state with Un				
AC operated	closing		VA	62
	P.F.			0,75
	closed		VA	7
	P.F.			0,3
DC operated	closing		W	123
	closed		W	2,8
Coil voltage tolerances				0.85-1.1Un
duration of making and breaking (values are also valid for voltages of electromagnet from 0.8 to 1.1 Un for each in cold and warm state). Total breaking time is addition of opening time and duration of electric arc.				
AC operated	closing time		ms	12 to 22
	opening time		ms	4 to 19
	duration of electric arc		ms	10
Frequency of switching operations				
without thermal reley				
utilization category		AC1	s/h	1000
		AC2, AC3	s/h	750
		AC4	s/h	250
with thermal relay			s/h	15
Resistivity to shocks	(square shock)		g/ms	7/5 and 4.2/10
Short-circuit protection of				
contactors without overload relays				
Main circuit				
With fuse links				
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG		A	25
DIN VDE 0660 Part 102	Type of coord. "2"		A	20
Sizes of connection conductors				
for contact without thermal relay				
main circuit	single-wire conductors		mm^2	1.5-6
	multi-wire conductor with cable shoe		mm^2	1.5-6
	Screw			M4
	Screw head			PZ2
	Tightening torque		Nm	1,2
auxiliary circuit				
	single-wire conductor		mm^2	1-2.5
	multi-wire conductor with cable shoe		mm^2	0.75-1.5
	Screw			M3.5
	Screw head			PZ2
	Tightening torque		Nm	0,8
Loadability of auxiliary contacts				
Reated continuous current Ith ; 35C			A	10
rated operational current Ie/AC15		for 24V	A	6
		230V	A	6
		400V	A	4
		500V	A	2
		690V	A	1
rated operational current Ie/DC13		for 24V	A	4
		110V	A	0,6
		230V	A	0,3

Load carrying capacity of the main contacts			
rated continuus current ith			
AC1 utilization category		A	25
rated operational current Ie/AC1		A	25
AC2 and AC3 utilization categories	for 230V	kW	3,5
(slip-ring and cage motors at 50Hz)	**400V**	**kW**	**5,7**
	690V	kW	7,5
AC4 utilization category			
(electrical endurance of contacts:120.000			
rated curent	Ie/AC4	A	5
ratings of squirrel-cage motors at 50Hz	for 230V	kW	1,1
	400V	**kW**	**2,2**
	500V	kW	2,2
	690V	kW	2,2
Loadability by direct current			
DC1 utilization category, non-inductive loads L/R1 ms			
rated operational current Ie	for 24V	A	20
through one pole	48V	A	20
	110V	A	2,1
	220V	A	0,8
	440V	A	0,6
	600V	A	0,6
through three poles connected in series	for 24V	A	20
	48V	A	20
	110V	A	20
	220V	A	20
	440V	A	1,3
	600V	A	1
utilization category DC3 to DC5			
series and shunt motors (L/R15 ms)			
rated operational current Ie	for 24V	A	20
through one pole	48V	A	5
	110V	A	1,5
	220V	A	0,75
	440V	A	-
	600V	A	-
through three poles connected in series	for 24V	A	20
	48V	A	20
	110V	A	20
	220V	A	6
	440V	A	0,2
	600V	A	0,2

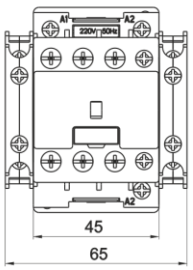
CNN 12

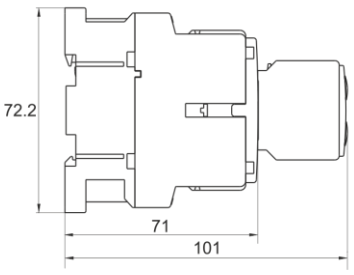


CNN 12
+BP2 (BP4)



CNN 12
+2xBP3





Drilling plan (mm)