

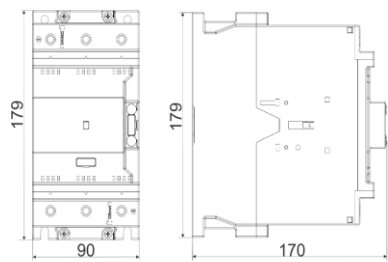


**RADE KONCAR CONTACTOR CNN150**  
**150A/75kW (AC3, 400V/50Hz); 160A(AC1)**  
 In conformity with standard IEC 60947-4-1

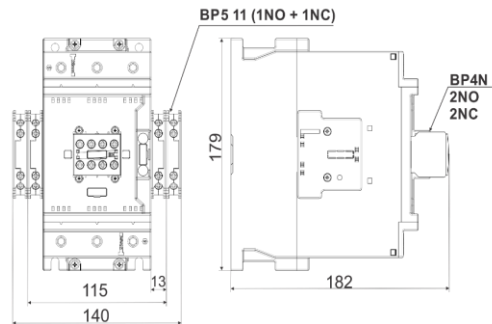
<b>Contactor type</b>		<b>CNN 150</b>	
<b>Mechanical endurance</b>	make/brake operations	$\times 10^6$	5
<b>Insulation rating</b>		V	1000
<b>Permissible ambient temperature</b>		$^{\circ}\text{C}$	from -25 to +55
<b>Consumption of electromagnet in cold state with <math>U_n</math></b>			
AC operated	closing	VA	400
	P.F.		0.48
	closed	VA	26
	P.F.		0.24
<b>Coil voltage tolerances</b>			0.85-1.1 $U_n$
<b>duration of making and breaking</b>			
(values are also valid for voltages of electromagnet from 0.8 to 1.1 $U_n$ 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	20 - 50
	opening time	ms	10 - 30
	duration of electric arc	ms	10 - 15
<b>Frequency of switching operations</b>			
without thermal relay			
	utilization category	AC1	s/h 1000
		AC2, AC3	s/h 500
		AC4	s/h 250
with thermal relay			
			s/h 15
<b>Resistivity to shocks</b>	(square shock)	g/ms	10/5,5 and 5/12
<b>Short-circuit protection</b>			
contactors without overload relays			
<b>Main circuit</b>			
With fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gI/gG	A	250
DIN VDE 0660 Part 102	Type of coord. "2"	A	160
<b>Sizes of connection conductors</b>			
main circuit	Rigid solid	$\text{mm}^2$	-
	Stranded	$\text{mm}^2$	1x(16 - 95)
	Stranded	$\text{mm}^2$	2x(16-70)
	Flatbar	mm	16x4
	Screw		M10
auxiliary circuit	Screw head		5
	Tightening torque	Nm	10 - 12
	Single-wire conductor	$\text{mm}^2$	1 - 2,5
	Multi-wire conductor with cable shoe	$\text{mm}^2$	0,75 - 1,5
auxiliary circuit	Screw		M3,5
	Screw head		PZ2
	Tightening torque	Nm	0.8
	<b>Loadability of auxiliary contacts</b>		
Rated continuous current $I_{th}$ ; 35C		A	16
AC			
rated operational current $I_e$ /AC15	230V	A	6
	400V	A	4
	500V	A	2.5

DC	690V	A	2.5
rated operational current $I_e/DC1$ ; $L/R \leq 1ms$	24V	A	10
	110V	A	8
	220V	A	2
	440V	A	0.6
	600V	A	0.4
rated operational current $I_e/DC13$	for 24V	A	10
	110V	A	2.4
	220V	A	1.1
	440V	A	0.32
	600V	A	0.21
<b>Load carrying capacity of the main contacts</b>			
rated continuous current $I_{th}$ ; 35C		A	160
AC1 utilization category			
rated current $I_e/AC1$		A	160
<b>AC2 and AC3 utilization categories</b>			
(slip-ring and cage motors at 50Hz)	for 230V	kW	45
	<b>400V</b>	<b>kW</b>	<b>75</b>
	690V	kW	90
<b>AC4 utilization category</b>			
(electrical endurance of contacts:120.000)			
rated current	$I_e/AC4$	A	56
ratings of squirrel-cage motors at 50Hz for	230V	kW	15
	<b>400V</b>	<b>kW</b>	<b>30</b>
	500V	kW	37
	690V	kW	55

Dimension drawings (mm) **CNN 150**



Dimension drawings with auxiliary contact blocks (mm)



Drilling plan (mm)

