

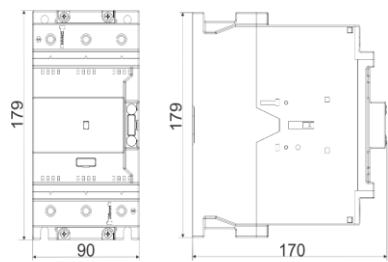


**RADE KONCAR CONTACTOR CNN150**  
**150A/75kW (AC3, 400V/50Hz); 160A(AC1)**  
 In conformity with standard IEC 60947-4-1

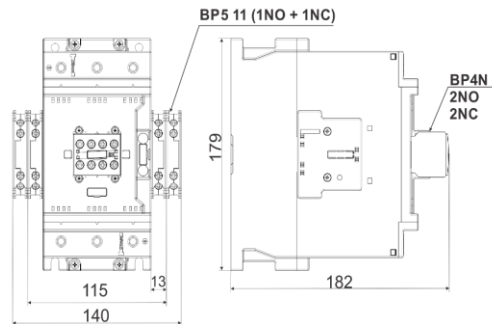
<b>Contactor type</b>			<b>CNN 150</b>	
<b>Mechanical endurance</b>	make/brake operations		x10 <sup>6</sup>	5
<b>Insulation rating</b>			V	1000
<b>Permissible ambient temperature</b>			°C	from -25 to +55
<b>Consumption of electromagnet in cold state with Un</b>				
AC operated	closing		VA	400
	P.F.			0.48
	closed		VA	26
	P.F.			0.24
<b>Coil voltage tolerances</b>			0.85-1.1Un	
<b>duration of making and breaking</b>				
(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	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		mm <sup>2</sup>	
	standed		mm <sup>2</sup>	1x(16 - 95)
	standed		mm <sup>2</sup>	2x(16-70)
	flatbar		mm	16x4
auxiliary circuit	Screw			M10
	Screw head			⬡ 5
	Tightening torque		Nm	10 - 12
	single-wire conductor		mm <sup>2</sup>	1 - 2,5
multi-wire conductor with cable shoe		mm <sup>2</sup>	0,75 - 1,5	
Screw				M3,5
Screw head				PZ2
Tightening torque		Nm		0.8
<b>Loadability of auxiliary contacts</b>				
Rated continuous current I <sub>th</sub> ; 35C			A	16
AC				
rated operational current I <sub>e</sub> /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)

