

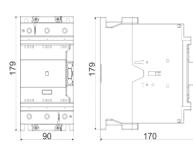
## RADE KONCAR CONTACTOR CNN150

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

Contactor type			CNN 150
Mechanical endurance make/brake operations		x10 <sup>6</sup>	5
nsulation rating		V	1000
Permissible ambient		°C	from -25 to +55
	tromagnet in cold state with Un		
AC operated		VA	400
	P.F.		0.48
	closed P.F.	VA	26 0.24
Coil voltage tolerance			0.85-1.1Un
duration of making a			0.00 1.1011
	or voltages of electromagnet from		
).8 to 1.1 Un for each i	in cold and warm state).		
0	addition of opening time and duration		
of electric arc.			
\C operated	closing time	ms	20 - 50
AC operated	opening time	ms	20 - 50 10 - 30
	duration of electric arc	ms	10 - 15
Frequency of switching	ng operations		
vithout thermal reley		a /b	1000
Utili	zation category AC1 AC2, AC3	s/h s/h	
	AC2, AC3 AC4	s/h	
vith thermal relay	7.04	s/h	
			10/5,5
			1000 500 250 15 10/5,5
Resistivity to shocks	(square shock)	g/ms	and
		g/ms	and 5/12
Short-circuit protection	on	g/ms	
Short-circuit protection contactors without over	on	g/ms	
Short-circuit protection contactors without over Main circuit	on	g/ms	
Short-circuit protection contactors without over Main circuit With fuse links	on rload relays		5/12
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1	on rload relays Type of coord. "1" gl/gG	A	5/12
Short-circuit protection contactors without over Main circuit With fuse links	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2"		5/12
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2"	A	5/12
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2"	A	5/12
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors	A	5/12
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid	A A mm <sup>2</sup>	5/12 250 160
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95) 2x(16-70)
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded	A A mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95)
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95) 2x(16-70) 16x4
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95) 2x(16-70) 16x4 
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head	A A mm <sup>2</sup> mm <sup>2</sup> mm	5/12 250 160 1x(16 - 95) 2x(16-70) 16x4 M10 ∑ 5
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95) 2x(16-70) 16x4 
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection connaction co	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque	A A mm <sup>2</sup> mm <sup>2</sup> mm	$     \begin{array}{r}       5/12 \\       250 \\       160 \\       1x(16 - 95) \\       2x(16 - 70) \\       16x4 \\       M10 \\             5 \\             10 - 12 \\       \end{array} $
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection connaction co	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw Screw head Tightening torque Single-wire conductor	A A mm <sup>2</sup> mm <sup>2</sup> mm mm Nm Nm	5/12     250     160     1x(16 - 95)     2x(16-70)     16x4     M10     5     10 - 12     1 - 2,5     1 - 2,5
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection connaction co	on rload relays 2 Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm Mm	$     \begin{array}{r}       5/12 \\       250 \\       160 \\       1x(16 - 95) \\       2x(16 - 70) \\       16x4 \\       M10 \\             5 \\             10 - 12 \\       \end{array} $
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection connaction co	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor with cable shoe	A A mm <sup>2</sup> mm <sup>2</sup> mm mm Nm Nm	5/12 $250$ $160$ $1x(16 - 95)$ $2x(16 - 70)$ $16x4$ $M10$ $5$ $10 - 12$ $1 - 2,5$ $0,75 - 1,5$
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection contact nain circuit	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor with cable shoe Screw Screw head Tightening torque	A A mm <sup>2</sup> mm <sup>2</sup> mm mm Nm Nm	5/12 $250$ $160$ $1x(16 - 95)$ $2x(16-70)$ $16x4$ $M10$ $5$ $10 - 12$ $1 - 2,5$ $0,75 - 1,5$ $M3.5$
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 100 Sizes of connection of nain circuit	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor with cable shoe Screw Screw head Tightening torque ry contacts	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm Nm Nm Nm	5/12 $250$ $160$ $1x(16 - 95)$ $2x(16-70)$ $16x4$ $M10$ $5$ $10 - 12$ $1 - 2,5$ $0,75 - 1,5$ $M3.5$ $PZ2$ $0.8$
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection of nain circuit auxiliary circuit	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor with cable shoe Screw Screw head Tightening torque ry contacts	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm Nm Nm mm <sup>2</sup> mm <sup>2</sup>	5/12 250 160 1x(16 - 95) 2x(16-70) 16x4 M10 ○ 5 10 - 12 1 - 2,5 0,75 - 1,5 M3.5 PZ2
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection of nain circuit auxiliary circuit	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor Multi-wire conductor with cable shoe Screw Screw Screw head Tightening torque Tightening torque ry contacts rent lth ; 40 °C	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm Nm mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> Mm	5/12 $250$ $160$ $1x(16 - 95)$ $2x(16 - 70)$ $16x4$ $M10$ $5$ $10 - 12$ $1 - 2,5$ $0,75 - 1,5$ $M3.5$ $PZ2$ $0.8$ $16$
Short-circuit protection contactors without over Main circuit With fuse links acc. To IEC 60947-4-1 DIN VDE 0660 Part 10 Sizes of connection of nain circuit auxiliary circuit	on rload relays Type of coord. "1" gl/gG 2 Type of coord. "2" conductors Rigid solid Stranded Stranded Flatbar Screw Screw head Tightening torque Single-wire conductor Multi-wire conductor Multi-wire conductor with cable shoe Screw Screw Screw head Tightening torque Tightening torque ry contacts rent lth ; 40 °C	A A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm Nm Nm Nm	5/12 $250$ $160$ $1x(16 - 95)$ $2x(16-70)$ $16x4$ $M10$ $5$ $10 - 12$ $1 - 2,5$ $0,75 - 1,5$ $M3.5$ $PZ2$ $0.8$

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

CNN 150 Dimension drawings (mm)



Dimension drawings with auxiliary contact blocks (mm)

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140

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