

## RADE KONCAR CONTACTOR **CNN100 100**A/55kW (AC3, 400V/50Hz); 115A(AC1)

			CNN 100
lechanical endurance	make/brake operations	x10 <sup>6</sup>	5
nsulation rating		V	1000
Permissible ambient ter	nperature	°C	from -25 to +55
Consumption of electro	magnet in cold state with Un		
AC operated	closing	VA	204
	P.F.		0,54
	closed	VA	16
	P.F.		0,26
DC operated	closing	W	200
	closed	W	3,5
oil voltage tolerances			0.85-1.1Un
uration of making and	breaking		
values are also valid for	voltages of electromagnet from		
.8 to 1.1 Un for each in c	cold and warm state).		
otal breaking time is add	dition of opening time and duration		
f electric arc.			
C operated	closing time	ms	9 to 35
	opening time	ms	9 to 15
	duration of electric arc	ms	10 to 15
DC operated	closing time	ms	20 to 50
	opening time	ms	120 to 150
	duration of electric arc	ms	10 to 15
requency of switching	operations		
vithout thermal reley	1	- 0-	4000
utiliza	tion category AC1	s/h	1000
	AC2, AC3	s/h	600
	AC4	s/h	200
vith thermal relay		s/h	15
			9.6/5
Resistivity to shocks	(square shock)	g/ms	and
Short-circuit protection			5.2/10
ontactors without overloa	ad Telays		
lain circuit	au roiays		
<b>flain circuit</b> Vith fuse links	-	٥	160
<b>lain circuit</b> Vith fuse links Icc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	160 100
<b>fain circuit</b> Vith fuse links cc. To IEC 60947-4-1 VIN VDE 0660 Part 102	Type of coord. "1" gl/gG Type of coord. "2"	A A	160 100
<b>flain circuit</b> Vith fuse links Icc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b>	Type of coord. "1" gl/gG Type of coord. "2" nductors		
<b>flain circuit</b> Vith fuse links loc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay	A	
<b>flain circuit</b> Vith fuse links Icc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b>	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid	A mm <sup>2</sup>	100
<b>flain circuit</b> Vith fuse links loc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed	A mm <sup>2</sup> mm <sup>2</sup>	
<b>flain circuit</b> Vith fuse links loc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG <u>Type of coord. "2"</u> nductors al relay Rigid solid standed multi-wire conductor with cable shoe	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	100 25-70 -
<b>flain circuit</b> Vith fuse links loc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed	A mm <sup>2</sup> mm <sup>2</sup>	100
<b>flain circuit</b> Vith fuse links loc. To IEC 60947-4-1 DIN VDE 0660 Part 102 <b>Sizes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	100 25-70 -
Iain circuit Vith fuse links cc. To IEC 60947-4-1 VIN VDE 0660 Part 102 iizes of connection cor or contact without therma	Type of coord. "1" gl/gG <u>Type of coord. "2"</u> nductors al relay Rigid solid standed multi-wire conductor with cable shoe	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	100 25-70 -
flain circuit Vith fuse links cc. To IEC 60947-4-1 <u>NN VDE 0660 Part 102</u> <b>izes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" <b>nductors</b> al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm	100 25-70 - 25-50 - - -
lain circuit Vith fuse links cc. To IEC 60947-4-1 IIN VDE 0660 Part 102 izes of connection cor or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	100 - 25-70 - 25-50 - - - - -
lain circuit Vith fuse links cc. To IEC 60947-4-1 IIN VDE 0660 Part 102 izes of connection cor or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm	100 25-70 - 25-50 - - - - - - M8
Iain circuit Vith fuse links cc. To IEC 60947-4-1 VIN VDE 0660 Part 102 iizes of connection cor or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm mm	100 25-70 - 25-50 - - - - - - - - - - - - - - - - - -
Iain circuit Vith fuse links cc. To IEC 60947-4-1 VIN VDE 0660 Part 102 iizes of connection cor or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm	100 25-70 - 25-50 - - - - - - M8
Iain circuit Vith fuse links cc. To IEC 60947-4-1 <u>IN VDE 0660 Part 102</u> <b>sizes of connection cor</b> or contact without therma hain circuit	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm mm	100 25-70 - 25-50 - - - - - - - - - - - - - - - - - -
flain circuit Vith fuse links cc. To IEC 60947-4-1 <u>NN VDE 0660 Part 102</u> <b>izes of connection cor</b> or contact without therma	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm mm	100 25-70 - 25-50 - - - - - - - - - - - - - - - - - -
flain circuit Vith fuse links cc. To IEC 60947-4-1 <u>NN VDE 0660 Part 102</u> Sizes of connection cor or contact without thermanain circuit	Type of coord. "1" gl/gG Type of coord. "2" nductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head Tightening torque	A mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm mm mm <sup>2</sup> Mm	100 25-70 - 25-50 - - - - - - - - - - - - - - - - - -

Screw head Tightening torque	Nm	PZ2 0,8
Loadability of auxiliary contacts Reated continuous current lth ; 35C	А	16
AC rated operational current le/AC15 230V	А	6
400V	A	4
500V	A	2,5
690V	A	2,5
C		
ated operational current le/DC1; L/R ≤1ms 24V	A	10
110V	A	3,2
220V	A	0,9
440V 600V	A	0,33 0,22
		-,
ated operational current le/DC13 for 24V	A	10
110V	A	1,8
220V	A	0,9
440V 600V	A A	0,27 0,18
Load carrying capacity of the main contacts		0,10
ated continuus current ith ; 35C	А	135
AC1 utilization category	0	115
ated current le/AC1 AC2 and AC3 utilization categories for 230V	A kW	<u>115</u> 30
slip-ring and cage motors at 50Hz) 400V	kW	55
690V	kW	67
AC4 utilization category		
electrical endurance of contacts:120.000	*	00
ated curent le/AC4	A	36
atings of squirrel-cage motors at 50Hz for 230V	kW	8.7/10.4
400V	kW	17/18
500V	kW	21/24
690V	kW	20/30
_oad carrying capacity of contactors at		
swiyching on and off of a.c. capacitors le	A	
electrical endurance amounts to 0.1 milion switching operations) atings of individual capacitors at 50 Hz for 230V	kvar	_
hrough one pole 400V	kvar	-
500V	kvar	-
690V	kvar	-
ratings of capacitor banks (minimum inductive reactance between two capacitors switched on in parallel amounts to 6μH;50 Hz		
for 230V	kvar	-
400V	kvar	-
500V	kvar	-
690V	kvar	-
Application in stator circuit of motor ntermitent operation AC2		
stator current at duty factor in intermitent periodic duty 20%	А	135
20% 40%	A	135
40%	Â	100
80%	А	90
Application in rotor circuit of motor ntermittent operation		
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	Δ	193
Application in rotor circuit of motor intermittent operation	A	193 193
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty 10%		
Application in rotor circuit of motor         Intermittent operation         rotor current at duty factor in intermittent periodic duty         Image: Comparison of the second seco	A A A	193 173 158
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty 10% 20% 40% 60% 80%	A A A A	193 173 158 138
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	A A A	193 173 158
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	A A A A	193 173 158 138
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	A A A A	193 173 158 138 138
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	A A A A V	193 173 158 138 138 138
Application in rotor circuit of motor ntermittent operation rotor current at duty factor in intermittent periodic duty	A A A A V V	193 173 158 138 138 1800 880
Application in rotor circuit of motor         ntermittent operation         rotor current at duty factor in intermittent periodic duty         Image: I	A A A A V V	193 173 158 138 138 1800 880
Application in rotor circuit of motor         intermittent operation         rotor current at duty factor in intermittent periodic duty         Image:	A A A A V V V V	193 173 158 138 138 1800 880
Application in rotor circuit of motor         ntermittent operation         rotor current at duty factor in intermittent periodic duty         Image: Continuous operation         Context operation         Cont	A A A A V V	193 173 158 138 138 1800 880 750
Application in rotor circuit of motor         intermittent operation         rotor current at duty factor in intermittent periodic duty         Image:	A A A A V V V V	193 173 158 138 138 1800 880 750 90 75 12
Application in rotor circuit of motor intermittent operation rotor current at duty factor in intermittent periodic duty       10% 20% 40% 60% 80%         Continuous operation permissible voltage of motionless rotor       80%         Continuous operation permissible voltage of motionless rotor       starting regulation counter current breaking         Loadability by direct current DC1 utilization category,non-inductive loads LR≤1 ms         rated operational current le through one pole       for 24 V 60 V 110 V 220 V	A A A A V V V V V A A A A A	193 173 158 138 138 1800 880 750 90 75 12 2,5
Application in rotor circuit of motor         Intermittent operation         rotor current at duty factor in intermittent periodic duty         Image: Continuous operation         counter current breaking         CO1 utilization category, non-inductive loads LR≤1 ms         rated operational current le         hrough one pole       for 24 V         60 V       110 V	A A A A V V V V V A A A	193 173 158 138 138 1800 880 750 90 75 12

through three poles connected in series	for 24 V	А	100
	60 V	A	100
	110 V	A	100
	220 V	A	100
	440 V	A	6
	600 V	A	3,4
utilization categories DC3 to DC5 series and shunt motors (L/R $\leq$ 15 ms)			-, -
rated operational current le			
through one pole	for 24 V	A	6
<b>.</b>	60 V	A	3
	110 V	A	1,25
	220 V	A	0,35
	440 V	A	0,15
	600 V	A	0,1
through three poles connected in series	for 24 V	А	90
0	60 V	А	90
	110 V	A	90
	220 V	A	3,8
	440 V	A	0,7
	600 V	А	0,4

