

RADE KONCAR CONTACTOR **CNN80 80**A/37kW (AC3, 400V/50Hz); 95A(AC1)

Contactor type			CNN 80
lechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	1000
Permissible ambient tem	perature	°C	from -25 to +55
Consumption of electron	nagnet 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
Coil voltage tolerances	and the se		0.85-1.1Un
duration of making and I			
Values are also valid for v	oltages of electromagnet from		
	,		
i otal breaking time is addi of electric zrc.	tion of opening time and duration		
DI EIECTIC ZIC.			
AC operated	closing time	ms	9 to 35
AC operated	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
Frequency of switching	operations		
without thermal reley			
utilizati	on category AC1	s/h	1000
	AC2, AC3	s/h	600
	AC4	s/h	200
with thermal relay		s/h	15
	<i>,</i>		9.6/5
Resistivity to shocks	(square shock)	g/ms	and
Short-circuit protection			5.2/10
contactors without overloa	d rolave		
Main circuit	u Telays		
With fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	А	125
DIN VDE 0660 Part 102	Type of coord. "2"	A	63
Sizes of connection con		A	05
or contact without thermal			
main circuit	Rigid solid	mm ²	
	standed	mm ²	25-70
		mm ²	
	multi-wire conductor with cable shoe		-
	standed with cable lug	mm²	25-50
	flothor		-
	flatbar	mm	-
	protoctive conductor with coble luc	?	-
	protective conductor with cable lug	mm²	-
	Screw		M8
	Screw head	Nimo	
	Tightening torque	Nm	4-4.5
auxiliary circuit		2	4.05
	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

Leadebility of auxiliary contents			
Loadability of auxiliary contacts Reated continuous current Ith ; 35C		А	16
AC			10
rated operational current le/AC15	230V	A	6
	400V	A	4
	500V	A	2,5
DC	690V	A	2,5
DC rated operational current le/DC1; L/R ≤1ms	24V	А	10
	110V	A	3,2
	220V	A	0,9
	440V	A	0,33
	600V	A	0,22
	(c. 0.4)/		10
rated operational current le/DC13	for 24V 110V	A	10 1,8
	220V	A	0,9
	440V	A	0,27
	600V	A	0,18
Load carrying capacity of the main contacts			
rated continuus current ith ; 35C		A	135
AC1 utilization category rated current le/AC1		٨	95
AC2 and AC3 utilization categories	for 230V	A kW	22
(slip-ring and cage motors at 50Hz)	400V	kW	37
(690V	kW	55
AC4 utilization category			
(electrical endurance of contacts:120.000			
rated curent	le/AC4	A	32
ratings of squirrel-cage motors at 50Hz for	230V	kW	8.7/10.4
Tallings of squitter-cage motors at 5012 101	400V	kW	17/18
	500V	kW	21/24
	690V	kW	20/30
Load carrying capacity of contactors at			
swiyching on and off of a.c. capacitors	le	A	
(electrical endurance amounts to 0.1 milion swit		luces	
ratings of individual capacitors at 50 Hz for through one pole	230V 400V	kvar kvar	-
through one pole	400V 500V	kvar	-
	690V	kvar	-
ratings of capacitor banks (minimum inductive reactance between two cap switched on in parallel amounts to 6μH;50 Hz	for 230V	kvar	-
	400V	kvar	-
	500V 690V	kvar kvar	-
Application in stator circuit of motor intermitent operation AC2	0007	NVCI	
stator current at duty factor in intermitent period			105
	20% 40%	A	135
	40% 60%	A	110 100
	80%	A	90
Application in rotor circuit of motor			
intermittent operation			
rotor current at duty factor in intermittent period	ic duty 10%	٨	193
	20%	A	193
\+\+\+\+=	40%	A	173
ן עטן ין	60%	A	158
	80%	А	138
continuous operation		A	138
permissible voltage of motionless rotor	starting	V	1800
	starting regulation	V V	880
counter	current breaking	v	750
Loadability by direct current	¥		
DC1 utilization category, non-inductive loads LR	≤1 ms		
ante de an anti-an al composit la			
rated operational current le through one pole	for 24 V	А	90
anough one pole	for 24 V 60 V	A	90 75
	110 V	A	12
	220 V	A	2,5
	440 V	А	0,6
	600 V	A	0,48
through throopolog connected in series	for 24 V	٨	100
through three poles connected in series	for 24 V 60 V	A A	100 100

	110 V	А	100	
	220 V	А	100	
	440 V	А	6	
	600 V	А	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	
	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	
	60 V	А	90	
	110 V	A	90	
	220 V	А	3,8	
	440 V	А	0,7	
	600 V	А	0,4	

