

RADE KONCAR CONTACTOR **CNN90 90**A/45kW (AC3, 400V/50Hz); 105(135)A(AC1)

Contactor type			CNN 90
lechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	1000
ermissible ambient tem	perature	°C	from -25 to +55
onsumption of electror	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
Coil voltage tolerances	closed	W	3,5 0.85-1.1Un
uration of making and I	roaking		0.05-1.1011
	oltages of electromagnet from		
0.8 to 1.1 Un for each in c	old and warm state)		
	tion of opening time and duration		
f electric zrc.	and of oponing and and addition		
C operated	closing time	ms	9 to 35
	opening time	ms	9 to 15
	duration of electric arc	ms	10 to 15
OC operated	closing time	ms	20 to 50
	opening time	ms	120 to 150
	duration of electric arc	ms	10 to 15
Frequency of switching	onorations		
vithout thermal relev	operations		
	on category AC1	s/h	1000
o tin Lot	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
			5.2/10
Short-circuit protection			
contactors without overloa	d relays		
lain circuit			
Vith fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	125/160/160
DIN VDE 0660 Part 102 Sizes of connection con	Type of coord. "2"	A	63/80/100
or contact without thermal			
	2	mm ²	
nain circuit	Rigid solid		25 70
	standed	mm ²	25-70
	multi-wire conductir with cable shoe	mm ²	-
	standed with cable lug	mm²	25-50
	flath an		-
	flatbar	mm	-
			-
	protective conductor with cable lug	mm²	-
	Screw		M8
	Screw head	h laan	
unviliant aireuit	Tightening torque	Nm	4-4.5
uxiliary circuit		2	
	single-wire conductor	mm²	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 auxiliany contacto			
Loadability of auxiliary contacts Reated continuous current Ith ; 35C		А	16
AC			10
rated operational current le/AC15	230V	А	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	А	0,9
	440V	A	0,33
	600V	A	0,22
rated operational current le/DC13	for 24V	А	10
Taled operational current le/DO13	110V	Â	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		А	135/135/135
AC1 utilization category		A	130/130/130
rated current le/AC1		А	95/105/115
AC2 and AC3 utilization categories	for 230V	kW	22/26/30
(slip-ring and cage motors at 50Hz)	400V	kW	37/45/55
	690V	kW	55/67/67
AC4 utilization category			
(electrical endurance of contacts:120.000 rated curent	le/AC4	А	32/34/36
	16/204	A	JZ/ J4/ JU
ratings of squirrel-cage motors at 50Hz for	230V	kW	8.7/10.4
	400V	kW	17/18
	500V	kW	21/24
I and committee consolity of contractors of	690V	kW	20/30
Load carrying capacity of contactors at swiyching on and off of a.c. capacitors	le	А	
(electrical endurance amounts to 0.1 milion swit		~	
ratings of individual capacitors at 50 Hz for	230V	kvar	-
through one pole	400V	kvar	-
	500V	kvar	-
	690V	kvar	-
ratings of consolter banks			
ratings of capacitor banks (minimum inductive reactance between two cap	pacitors		
switched on in parallel amounts to 6μ H;50 Hz			
	for 230V	kvar	-
	400V	kvar	-
	500V	kvar	-
Annull action in statements of modern	690V	kvar	-
Application in stator circuit of motor			
intermitent operation AC2 stator current at duty factor in intermitent period	lic duty		
	20%	А	135
	40%	A	110
	60%	A	100
Another the set of sheart of sectors	80%	A	90
Application in rotor circuit of motor intermittent operation			
rotor current at duty factor in intermittent period	ic duty		
	10%	А	193
	20%	A	193
	40%	А	173
	60%	A	158
continuous operation	80%	A A	138 138
permissible voltage of motionless rotor		~	150
	starting	V	1800
	regulation	V	880
	current breaking	V	750
Loadability by direct current	<1 ms		
DC1 utilization category,non-inductive loads LR	21 1115		
rated operational current le			
through one pole	for 24 V	А	90
	60 V	A	75
	110 V	A	12
	220 V	A	2,5
	440 V 600 V	A A	0,6 0,48
	000 v	A	0,40
through three poles connected in series	for 24 V	А	100
.	60 V	A	100

	110 V	А	100	
	220 V	А	100	
	440 V	А	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	
	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	A	90	
	110 V	A 3 A 1,25 A 0,35 A 0,15 A 0,1 A 90 A 90 A 90 A 3,8	90	
	220 V	А		
	440 V	А	0,7	
	600 V	А	0,4	

