

RADE KONCAR CONTACTOR **CNN70 65**A/33kW (AC3, 400V/50Hz); 90A(AC1)

Contactor type			CNN 70
Mechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	1000
Permissible ambient tem	perature	°C	from -25 to +55
Consumption of electror	nagnet in cold state with Un		
AC operated	closing	VA	155
	P.F.		0,6
	closed	VA	12
	P.F.		0,29
DC operated	closing	W	90
	closed	W	3,5
Coil voltage tolerances	and the second		0.85-1.1Un
duration of making and I			
	oltages of electromagnet from		
0.8 to 1.1 Un for each in co			
	tion of opening time and duration		
of electric arc.			
AC operated	closing time	me	10 to 24
AC operated	opening time	ms ms	7 to 10
	duration of electric arc	ms	10 to 15
DC operated	closing time	ms	15 to 40
	opening time	ms	100 to 120
	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	750
	AC4	s/h	250
with thermal relay		s/h	15
			9.25
Resistivity to shocks	(square shock)	g/ms	and
			5.4/10
Short-circuit protection			
contactors without overloa	d relays		
Main circuit			
With fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	125
DIN VDE 0660 Part 102	Type of coord. "2"	A	63
Sizes of connection con			
for contact without thermal	5	2	
main circuit	Rigid solid	mm ²	1x6-50
	standed	mm²	2x6-25
	multi-wire conductor with cable shoe	mm ²	1x6-35
	standed with cable lug	mm²	2x6-16
	flatbar	mm	-
	protective conductor with cable lug	mm ²	-
	Screw		M6
	Screw head		PZ2
	Tightening torque	Nm	3-4
auxiliary circuit			
	single-wire conductor	mm ²	1-2.5
	multi-wire conductor with cable shoe	mm ²	0.75-1.5
	Screw	11111	0.75-1.5 M3.5
	Screw head		PZ2
	Tightening torque	Nm	0,8

Loadability of auxiliary contacts			
Loadability of auxiliary contacts Reated continuous current Ith ; 35C		А	16
AC			
rated operational current le/AC15	230V	A	6
	400V	A	4
	500V	A	2,5
DC	690V	A	2,5
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/DC15	110V	A	1,8
	220V	A	0,9
	440V	A	0,27
	600V	A	0,18
Load carrying capacity of the main contacts			105
rated continuus current ith ; 35C AC1 utilization category		А	125
rated current le/AC1		А	90
AC2 and AC3 utilization categories	for 230V	kW	18,5
(slip-ring and cage motors at 50Hz)	400V	kW	33
	690V	kW	37
AC4 utilization category			
(electrical endurance of contacts:120.000		A	20
rated curent	le/AC4	A	30
ratings of squirrel-cage motors at 50Hz for	230V	kW	8,5
	400V	kW	15,1
	500V	kW	18,4
<u> </u>	690V	kW	24,3
Load carrying capacity of contactors at	1-	0	
swiyching on and off of a.c. capacitors (electrical endurance amounts to 0.1 milion swite	le ching operations)	A	
ratings of individual capacitors at 50 Hz for	230V	kvar	-
through one pole	400V	kvar	-
	500V	kvar	-
	690V	kvar	-
ratings of capacitor banks			
(minimum inductive reactance between two capa	acitors		
switched on in parallel amounts to 6µH;50 Hz			
	for 230V	kvar	-
	400V	kvar	-
	500V	kvar	-
Application in stator circuit of motor	690V	kvar	-
Application in stator circuit of motor intermitent operation AC2			
stator current at duty factor in intermitent periodi	ic duty		
,	20%	A	103
	40%	A	98
	60%	A	87
Application in rotor circuit of motor	80%	A	80
intermittent operation			
rotor current at duty factor in intermittent periodi	c duty		
	10%	А	163
	20%	А	163
	40%	A	155
	60%	A	138
continuous operation	80%	A	127 127
permissible voltage of motionless rotor			1 4 1
	starting	V	1500
	regulation	V	750
Loadability by direct current	current breaking	V	660
DC1 utilization category, non-inductive loads LR:	<1 ms		
Set anization category, non-inductive loads LK	21.110		
rated operational current le			
through one pole	for 24 V	A	70
	60 V	A	30
	110 V	A	6
	220 V 440 V	A	1,2 0,48
	440 V 600 V	A	0,48
			-,
through three poles connected in series	for 24 V	А	70
	60 V	A	70

CNN 70	CNN 70	CNN 70		Drilling plan (mm)
		600 V	A	0,35
		440 V	A	0,6
		220 V	A	3,5
		110 V	A	70
		60 V	A	70
through three poles connected in series		for 24 V	А	70
		600 V	А	0,08
		440 V	A	0,1
		220 V	A	0,2
		110 V	A	0,75
		60 V	A	2
rated operational through one pole		for 24 V	А	5
	motors (L/R \leq 15 ms)			
utilization catego	ories DC3 to DC5	000 V	~	I
		600 V	A	1
		220 V 440 V	A	70 3
		110 V	A	70

