

RADE KONCAR CONTACTOR **CNN70 70**A/33kW (AC3, 400V/50Hz); 90(125)A(AC1)

Contactor type			CNN 70
Mechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	1000
ermissible ambient tem		°C	from -25 to +55
Consumption of electron	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
Dail waltana talanan asa	closed	W	3,5
Coil voltage tolerances luration of making and l	avadrina		0.85-1.1Un
values are also valid for v 0.8 to 1.1 Un for each in co	oltages of electromagnet from		
1C aparatad	alasina tima		10 to 24
AC operated	closing time	ms	10 to 24 7 to 10
	opening time duration of electric arc	ms	7 to 10
DC operated	closing time	ms ms	10 to 15 15 to 40
operateu	opening time	ms	100 to 120
	duration of electric arc	ms	100 to 120
	adiation or ordered are	1110	10 10 10
requency of switching	operations		
without thermal reley			
utilizati	on category AC1	s/h	1000
	AC2, AC3	s/h	750
	AC4	s/h	250
vith thermal relay		s/h	15
			9.25
Resistivity to shocks	(square shock)	g/ms	and
			5.4/10
Short-circuit protection contactors without overloa Main circuit With fuse links	d relays		
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	80/100/125
OIN VDE 0660 Part 102	Type of coord. "2"	A	40/50/63
Sizes of connection con			
or contact without thermal	•	2	
nain 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	-
	and the Common desires with models from	3	
	protective conductor with cable lug	mm²	-
	Screw		M6
	Screw head		PZ2
gr r	Tightening torque	Nm	3-4
nuxiliary circuit		-	
	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

Loadability of auxiliary contacts Reated continuous current lth; 35C		А	16
AC	0001/	Δ.	0
rated operational current le/AC15	230V 400V	A A	6 4
	500V	A	2,5
	690V	A	2,5
DC			
rated operational current le/DC1; L/R ≤1ms	24V	A	10
	110V	A	3,2
	220V 440V	A	0,9
	600V	A A	0,33 0,22
	000 V	^	0,22
rated operational current le/DC13	for 24V	A	10
•	110V	A	1,8
	220V	A	0,9
	440V	A	0,27
Lord complex consists of the main contests	600V	Α	0,18
Load carrying capacity of the main contacts rated continuus current ith; 35C		А	85/85/125
AC1 utilization category		^	03/03/123
rated current le/AC1		А	85/85/90
AC2 and AC3 utilization categories	for 230V	kW	15/18.5/18/5
(slip-ring and cage motors at 50Hz)	400V	kW	22/30/33
	690V	kW	33/37/37
AC4 utilization category			
(electrical endurance of contacts:120.000	1.4004		0.4/0.0/0.0
rated curent	le/AC4	A	24/28/30
ratings of squirrel-cage motors at 50Hz for	230V	kW	6,9/7,3/8.5
ratings of squitter-cage motors at 50Hz for	400V	kW	12/14/15.1
	500V	kW	15.8/16.2/18.4
	690V	kW	20.8/21.8/24.3
Load carrying capacity of contactors at			
swiyching on and off of a.c. capacitors	le	A	
(electrical endurance amounts to 0.1 milion switch	9 . ,		
ratings of individual capacitors at 50 Hz for	230V	kvar	-
through one pole	400V	kvar	-
	500V 690V	kvar kvar	-
	090 V	KVal	-
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	-
	690V	kvar	-
Application in stator circuit of motor			
intermitent operation AC2	o duti		
stator current at duty factor in intermitent periodic	20%	А	103
	40%	A	98
	60%	A	87
	80%	A	80
Application in rotor circuit of motor			
intermittent operation			
rotor current at duty factor in intermittent periodic		Α.	100
	10% 20%	A A	163 163
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40%	A	155
	60%	A	138
	80%	А	127
continuous operation		A	127
permissible voltage of motionless rotor			
	starting	V	1500
counter	regulation	V	750 660
Loadability by direct current	current breaking	V	000
DC1 utilization category,non-inductive loads LR≤	c1 ms		
rated operational current le			
through one pole	for 24 V	A	70
-	60 V	A	30
	110 V	A	6
	220 V	A	1,2
	440 V	A	0,48
	600 V	А	0,35
through three poles connected in series	for 24 V	А	70
ag a oo poloo oo iiilootoa iii oolloo	60 V	A	70

CNN 70	CNN 70 + BP 2 (BP 4)	CNN 70 + 2xBP3		Drilling plan (mm)
		600 V	Ä	0,35
		440 V	A	0,6
		220 V	A	3,5
		110 V	Α	70
		60 V	Α	70
through three poles connected in series		for 24 V	А	70
		600 V	A	0,08
		440 V	A	0,1
		220 V	A	0,2
		110 V	A	0,75
		60 V	Α	2
through one pole	!	for 24 V	Α	5
rated operational	current le			
series and shunt	motors (L/R ≤ 15 ms)			
utilization catego	ries DC3 to DC5			
		600 V	A	1
		440 V	A	3
		220 V	Α	70









