

RADE KONCAR CONTACTOR CNN50 **50**A/22kW (AC3, 400V/50Hz); 85A(AC1) In conformity with standard IEC 60947-4-1

Contactor type			CNN 50					
Mechanical endurance	make/brake operations	x10 ⁶	5					
Insulation rating	ł	V	1000					
Permissible ambient ten	perature	°C	from -25 to +55					
Consumption of electromagnet in cold state with Un								
AC operated	closing	VA	155					
	P.F.		0.6					
	closed	VA	12					
	P.F.	10/	0.29					
DC operated	closing closed	W	90 3.5					
Coil voltage tolerances		۷V	0.85-1.1Un					
Duration of making and	breaking							
(values are also valid for v 0.8 to 1.1 Un for each in c	oltages of electromagnet from							
AC operated	closing time	ms	10 to 24					
no operated	opening time	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 utilization category AC1 AC2, AC3		s/h s/h	1000 750					
with thermal relay	AC4	s/h s/h	250 15					
with thermal relay		5/11	9,2/5					
Resistivity to shocks	(square shock)	g/ms	and 5,4/10					
Short-circuit protection contactors without overloa Main circuit With fuse links								
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	80					
DIN VDE 0660 Part 102	Type of coord. "2"	A	40					
Sizes of connection con for contact without therma								
main circuit	Rigid solid	mm ²	1x6-50					
main circuit	stranded	mm²	2x6-25					
	multi-wire conductor with cable shoe	mm ²	1x6-35					
	standed with cable lug	mm²	2x6-16					
	Standed with babie log		270 10					
	flatbar	mm	-					
	protective conductor with cable lug Screw	mm²	- 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		M3.5					
	Screw head		PZ2					

Tightoping torquo		Nm	0.8
Tightening torque Loadability of auxiliary contacts		INIT	0.0
Reated continuous current Ith ; 40 °C		A	16
AC	2201/	٨	0
rated operational current le/AC15	230V 400V	A	6 4
	500V	A	2.5
	690V	A	2.5
DC	24V	А	10
rated operational current le/DC1; L/R ≤1ms	110V	A	3.2
	220V	A	0.9
	440V	A	0.33
	600V	A	0.22
rated operational current le/DC13	for 24V	А	10
	110V	A	1.8
	220V	A	0.9
	440V 600V	A A	0.27 0.18
Load carrying capacity of the main contacts	8000	A	0.10
rated continuus current ith ; 35C		А	85
AC1 utilization category			
rated current le/AC1 AC2 and AC3 utilization categories	for 230V	A kW	85 15
(slip-ring and cage motors at 50Hz)	400V	kw	15 22
	690V	kW	33
AC4 utilization category			
(electrical endurance of contacts:120.000 rated curent		٨	04
	le/AC4	A	24
ratings of squirrel-cage motors at 50Hz for	230V	kW	6.9
	400V	kW	12
	500V	kW	15.8
Load carrying capacity of contactors at	690V	kW	20.8
switching on and off of a.c. capacitors	le	А	
(electrical endurance amounts to 0.1 milion switc	o		
ratings of individual capacitors at 50 Hz for	230V	kvar	-
	400V 500V	kvar kvar	-
	690V	kvar	-
ratings of capacitor banks (minimum inductive reactance between two capa	citors		
switched on in parallel amounts to 6µH;50 Hz			
	for 230V	kvar	-
	400V	kvar	-
	500V 690V	kvar kvar	-
Application in stator circuit of motor	030 V	KV CI	-
intermittent operation AC2			
stator current at duty factor in intermitent periodic			
	20% 40%	A A	103 98
	60%	A	90 87
	80%	A	80
Application in rotor circuit of motor			
intermittent operation rotor current at duty factor in intermittent periodic	duty		
	10%	А	163
	20%	A	163
│ │ ∖-┼∖-┼े⊏⊐│	40%	A	155
ן ן ט ט א י ן	60%	A	138
continuous operation	80%	A	127 127
permissible voltage of motionless rotor			121
	starting	V	1500
	regulation	V	750
counter c Loadability by direct current	urrent breaking	V	660
DC1 utilization category,non-inductive loads LR≤	1 ms		
rated operational current le			
through one pole	for 24 V	A	70
	60 V	A	30
	110 V 220 V	A A	6 1.2
	220 V 440 V	A	0.48
	600 V	A	0.35
through three poles connected in series	for 24 V	A	70

CNN 50	CNN 50 + BP 2 (BP 4)	CNN 50 + 2xBP3		Drilling plan (mm)
		600 V	A	0.35
		440 V	A	0.6
		220 V	A	3.5
		110 V	A	70
5		60 V	A	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	A	2
rated operationa through one pole		for 24 V	А	5
	t motors (L/R \leq 15 ms)			
utilization catego	ories DC3 to DC5			
		600 V	A	1
		440 V	A	3
		220 V	A	70
		110 V	A	70
		60 V	А	70

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