Contactor type



CNN 50



## RADE KONCAR CONTACTOR CNN50 50A/22kW (AC3, 400V/50Hz); 85A(AC1)

Mechanical endurance	make/brake operations	x10 <sup>6</sup>	5	
Insulation rating		V	1000	
Permissible ambient tem		°C	from -25 to +55	
	nagnet in cold state with Un			
AC operated	closing	VA	155	
	P.F.	\/A	0,6	
	closed P.F.	VA	12	
DC operated	closing	W	0,29 90	
Do operated	closed	W	3,5	
Coil voltage tolerances	0,0000	**	0.85-1.1Un	
Duration of making and b	preaking			
	oltages of electromagnet from			
0.8 to 1.1 Un for each in co				
Total breaking time is addit	ion of opening time and duration			
of electric arc.				
AC operated	closing time	ms	10 to 24	
	opening time	ms	7 to 10	
B0	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 of	pperations			
without thermal reley	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	on category AC1	s/h	1000	
	AC2, AC3	s/h	750	
	AC4	s/h	250	
with thermal relay		s/h	15	
		,	9,2/5	
Resistivity to shocks	(square shock)	g/ms	and	
01			5,4/10	
Short-circuit protection	d releve			
contactors without overload  Main circuit	relays			
With fuse links				
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	А	80	
DIN VDE 0660 Part 102	Type of coord. "2"	A	40	
Sizes of connection cond	71			
for contact without thermal	relay			
main circuit	Rigid solid	mm <sup>2</sup>	1x6-50	
	stranded	mm²	2x6-25	
	multi-wire conductor with cable shoe	mm <sup>2</sup>	1x6-35	
	standed with cable lug	mm²	2x6-16	
	flatbar	mm	-	
	protective conductor with cable lug	mm²	-	
	Screw		M6	
	Screw head		PZ2	
	Tightening torque	Nm	3-4	
auxiliary circuit				
	single-wire conductor	mm <sup>2</sup>	1-2.5	
	multi-wire conductor with cable shoe	mm <sup>2</sup>	0.75-1.5	
	Screw		M3.5	
	Screw head		PZ2	

Tightening torque		Nm	0,8
Loadability of auxiliary contacts		14111	0,0
Rated continuous current lth; 35C AC		А	16
rated operational current le/AC15	230V	Α	6
	400V	A	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	A	0,9
	440V	A	0,33
	600V	Α	0,22
rated operational current le/DC13	for 24V	A	10
rated operational current le/DC13	110V	Ä	1,8
	220V	Ä	0,9
	440V	A	0,27
	600V	A	0,18
Load carrying capacity of the main contacts			
rated continuus current ith; 35C		A	85
AC1 utilization category			
rated current le/AC1		A	85
AC2 and AC3 utilization categories	for 230V	kW	15
(slip-ring and cage motors at 50Hz)	400V	kW	22
	690V	kW	33
AC4 utilization category			
(electrical endurance of contacts:120.000	1- /0.04	Δ.	0.4
rated curent	le/AC4	A	24
ratings of squirrel-cage motors at 50Hz for	230V	kW	6,9
ratings of squirer-cage motors at 50112 for	400V	kW	1 <b>2</b>
	500V	kW	15,8
	690V	kW	20,8
Load carrying capacity of contactors at	0001	1777	20,0
switching on and off of a.c. capacitors	le	Α	
(electrical endurance amounts to 0.1 milion switc			
ratings of individual capacitors at 50 Hz for	230V	kvar	-
ramige of marriadar supusitors at so the	400V	kvar	-
	500V	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	kvar	-
	690V	kvar	-
Application in stator circuit of motor			
intermittent operation AC2			
stator current at duty factor in intermitent periodic	duty		
	20%	A	103
	40%	A	98
	60%	A	87
-	80%	A	80
Application in rotor circuit of motor			
intermittent operation	disc.		
rotor current at duty factor in intermittent periodic		Δ	400
	10%	A	163
	20% 40%	A A	163 155
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	40% 60%	A A	155 138
	80%	A	127
continuous operation	00 /6	Ä	127
permissible voltage of motionless rotor		7.	121
pormissione voltage of motionious rotor	starting	V	1500
	regulation	V	750
counter c	urrent breaking	V	660
Loadability by direct current	V		
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	A	6
	220 V	A	1,2
	440 V	A	0,48
	600 V	Α	0,35
through throe poles assessed in a single	for 24 M	Α.	70
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	Α	70
3		60 V	Α	70
through three poles connected in series		for 24 V	А	70
		600 V	A	0,08
		440 V	Α	0,1
		220 V	A	0,2
		110 V	Α	0,75
		60 V	A	2
rated operational through one pol-		for 24 V	А	5
roted energtions	al aurrant la			
	ories DC3 to DC5 it motors (L/R ≤ 15 ms)			
utilization actor	orico DC3 to DC5	000 V	A	ı
		600 V	A	1
		440 V	A	3
		220 V	A	70
		110 V	A	70
		60 V	Α	70









