

CNN 70



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

Mechanical endurance	make/brake operations	x10 ⁶	5				
Insulation rating		V	1000				
Permissible ambient tem		°C	from -25 to +55				
Consumption of electron	Consumption of electromagnet 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				
Coil voltage tolerances	closed	W	3,5 0.85-1.1Un				
	proaking		0.85-1.1011				
duration of making and breaking (values are also valid for voltages of electromagnet from							
0.8 to 1.1 Un for each in co							
Total breaking time is addition of opening time and duration of electric arc.							
AC operated	closing time	ms	10 to 24				
•	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	on category AC1	- /l-	4000				
utilizati	9-,	s/h s/h	1000 750				
	AC2, AC3 AC4	s/n s/h	750 250				
with thermal relay	AC4	s/h	15				
with thermal relay		3/11	9,2/5				
Resistivity to shocks	(square shock)	g/ms	and				
,	(= 1	9	5,4/10				
Short-circuit protection			,				
contactors without overload	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 conductors							
for contact without thermal		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	-				
	and the Control of th	2					
	protective conductor with cable lug	mm²	- MC				
	Screw		M6				
	Screw head	NI	PZ2				
auviliary airquit	Tightening torque	Nm	3-4				
auxiliary circuit	atrada vitas asadustas	2	4.0.5				
	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 Tightening torque		Nm	PZ2 0,8
Loadability of auxiliary contacts		INIII	0,0
Reated continuous current lth ; 35C AC	А	16	
rated operational current le/AC15	230V	Α	6
	400V	A	4
	500V	A	2,5
DC	690V	Α	2,5
rated operational current le/DC1; L/R ≤1ms	24V	А	10
rated operational outrent 16/DO1, D/K 311115	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	A	0,27
	600V	A	0,18
Load carrying capacity of the main contacts		Δ.	405
rated continuus current ith; 35C AC1 utilization category		Α	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	1.44.04		
rated curent	le/AC4	А	30
ratings of squirrel-cage motors at 50Hz for	230V	kW	8,5
	400V	kW	15,1
	500V	kW	18,4
-	690V	kW	24,3
Load carrying capacity of contactors at			
swiyching on and off of a.c. capacitors	le	Α	
(electrical endurance amounts to 0.1 milion switc	ning operations) 230V	kvar	
ratings of individual capacitors at 50 Hz for through one pole	400V	kvar	-
through one pole	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			
intermitent operation AC2 stator current at duty factor in intermitent periodic	duty		
stator ourrent at daty factor in intermitent periodic	20%	Α	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.	162
	10% 20%	A A	163 163
\ - \ \ - \ \	40%	A	155
	60%	A	138
	80%	A	127
continuous operation		A	127
permissible voltage of motionless rotor	otortic ~	1/	1500
	starting regulation	V	1500 750
counter o	urrent breaking	V	660
Loadability by direct current		·	
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
	440 V	A	0,48
	600 V	A	0,35
		•	-,

through three poles connected in series utilization categories DC3 to DC5 series and shunt motors (L/R ≤ 15 ms)	for 24 V 60 V 110 V 220 V 440 V 600 V	A A A A A	70 70 70 70 3 1
,			
rated operational current le			
through one pole	for 24 V	A	5
	60 V	A	2
	110 V	A	0,75
	220 V	A	0,2
	440 V	A	0,1
	600 V	A	0,08
through three poles connected in series	for 24 V	А	70
	60 V	A	70
	110 V	A	70
	220 V	A	3,5
	440 V	A	0,6
	600 V	A	0,35









