

RADE KONCAR CONTACTOR **CNN60 60**A/30kW (AC3, 400V/50Hz); 85A(AC1)

Contactor type			CNN 60
lechanical 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
DC aparatad	P.F.	W	0,29 90
DC operated	closing closed	W	90 3,5
Coil voltage tolerances	Closed	VV	0.85-1.1Un
Ouration of making and	breaking		0100 111011
	oltages of electromagnet from		
0.8 to 1.1 Un for each in c			
Fotal breaking time is addi	tion of opening time and duration		
f electric arc.			
C operated	closing time	ms	10 to 24
	opening time	ms	7 to 10
DC operated	duration of electric arc closing time	ms ms	10 to 15 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
20 de constantes las las s	AC4	s/h	250
with thermal relay		s/h	15 9.25
Resistivity to shocks	(square shock)	g/ms	9.25 and
Constitute to shocks	(Square Shock)	g/110	5.4/10
Short-circuit protection			011/10
contactors without overloa	d relays		
Main circuit	,		
Vith fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	80/100/125
DIN VDE 0660 Part 102	Type of coord. "2"	A	40/50/63
Sizes of connecting con			
or contact without therma		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 first second sectors with the first second	2	
	protective conductor with cable lug	mm²	-
	Screw		M6
	Screw head	N Ison	PZ2
auxiliary circuit	Tightening torque	Nm	3-4
unitary circuit	cingle wire conductor	2	105
	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
	Tightening torque	Nm	0,8

Loadability of auxiliary contacts Reated continuous current lth ; 35C		А	16
AC		~	10
rated operational current le/AC15	230V	А	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 440V	AA	0,9 0,33
	600V	A	0,33
	0007	7.	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		A	05/05/405
rated continuus current ith ; 35C		A	85/85/125
AC1 utilization category 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)			
rated current	le/AC4	А	24/28/30
ratings of squirrel-cage motors at 50Hz for	230V	kW	6,9/7,3/8.5
	400V	kW	12/14/15.1
	500V	kW	15.8/16.2/18.4
Load carrying capacity of contactors at	690V	kW	20.8/21.8/24.3
switching on and off of a.c. capacitors	le	А	
(electrical endurance amounts to 0.1 milion swite		8	
ratings of individual capacitors at 50 Hz for	230V	kvar	-
	400V	kvar	-
	500V	kvar	-
	690V	kvar	-
ratings of capacitor banks (minimum inductive reactance between two capa switched on in parallel amounts to 6µH;50 Hz	for 230V	kvar	-
	400V	kvar	-
	500V 690V	kvar kvar	-
Application in stator circuit of motor	0900	KVdI	-
intermittent operation AC2			
stator current at duty factor in intermittent period	ic duty		
	20%	А	103
	40%	A	98
	60%	А	87
	80%	A	80
Application in rotor circuit of motor			
intermittent operation	a dutu		
rotor current at duty factor in intermittent periodic	10%	А	163
	20%	A	163
	40%	A	155
	60%	A	138
	80%	А	127
continuous operation		А	127
permissible voltage of motionless rotor			
	starting	V	1500
countor	regulation current breaking	V V	750 660
Loadability by direct current		v	000
DC1 utilization category,non-inductive loads LRs	s1 ms		
rated operational current le			
through one pole	for 24 V	А	70
	60 V	А	30
	110 V	A	6
	220 V	A	1,2
	440 V 600 V	A	0,48
	000 V	A	0,35
through three poles connected in series	for 24 V	А	70
	60 V	A	70
	-		-

CNN 60	CNN 60 + BP 2 (BP 4)	CNN 60 + 2xBP3		Drilling plan (mm
		600 V	A	0,35
		440 V	A	0,6
		220 V	A	3,5
		110 V	A	70
		60 V	А	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
0		60 V	A	2
rated operationa through one pole		for 24 V	А	5
	ories DC3 to DC5 t motors (L/R ≤ 15 ms)			
		600 V	A	1
		440 V	A	3
		220 V	A	70
		110 V	A	70

CNN 60 + BP 2 (BP 4) CNN 60 + 2xBP3 5_ .'@ .'@ .'@ <u>18_18_5</u> 1 <u>_</u> 14:01 10:01 Β ===100 Grow Town 120 95 110 □**○**∎○ ľ 2 1 O orten (C) (C) о г<u>і (9)</u> Ф o ji **(C**)O 109 45 55 75 139 55 55