

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		°C	from -25 to +55
	nagnet in cold state with Un		
AC operated	closing	VA	155
	P.F.		0,6
	closed P.F.	VA	12 0,29
DC operated	closing	W	90
Do operated	closed	Ŵ	3,5
Coil voltage tolerances			0.85-1.1Un
Duration of making and	breaking		
	oltages of electromagnet from		
0.8 to 1.1 Un for each in co			
	tion of opening time and duration		
of electric arc.			
AC operated	closing time	ms	10 to 24
no operateu	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		
vithout thermal reley	on category AC1	s/h	1000
utilizati	on category AC1 AC2, AC3	s/h	1000 750
	AC2, AC3 AC4	s/h	250
with thermal relay	707	s/h	15
			9,2/5
Resistivity to shocks	(square shock)	g/ms	and
			5,4/10
Short-circuit protection			
contactors without overloa	d relays		
Main circuit			
With fuse links acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	А	100
DIN VDE 0660 Part 102	Type of coord. "2"	A	50
Sizes of connecting con			50
or contact without therma			
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
	5		
	flatbar	mm	-
	protective conductor with cable lug	mm²	-
	Screw		M6
	Screw head		PZ2
	Tightening torque	Nm	3-4
auxiliary circuit		2	
	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	k1	PZ2
	Tightening torque	Nm	0,8

Loodobility of auxiliary contacts			
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
20	690V	A	2,5
DC	24)/	A	40
rated operational current le/DC1; L/R ≤1ms	24V 110V	A	10 3,2
	220V	A	0,9
	440V	A	0,33
	600V	A	0,22
rated operational current le/DC13	for 24V	A	10
	110V	A	1,8
	220V 440V	A	0,9
	440V 600V	A	0,27 0,18
Load carrying capacity of the main contacts	0001	~	0,10
rated continuus current ith ; 35C		А	85
AC1 utilization category			
rated current le/AC1		A	85
AC2 and AC3 utilization categories	for 230V	kW	18,5
(slip-ring and cage motors at 50Hz)	400V	kW	30
ACA willingtion actorsmi	690V	kW	37
AC4 utilization category (electrical endurance of contacts:120.000)			
rated current	le/AC4	А	28
		~	20
ratings of squirrel-cage motors at 50Hz for	230V	kW	7,3
5 1 5	400V	kW	14
	500V	kW	16,2
	690V	kW	21,8
Load carrying capacity of contactors at			
switching on and off of a.c. capacitors	le	А	
(electrical endurance amounts to 0.1 milion switc 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 6μ H;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 intermittent period	ic dutv		
	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	c duty		
	10%	A	163
	20%	A	163
\++++++	40%	A	155
	60% 80%	A	138
continuous operation	80%	A	127 127
permissible voltage of motionless rotor			/
	starting	V	1500
	regulation	V	750
	current 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	A	6
	220 V	A	1,2
	440 V 600 V	A	0,48 0,35
	000 V	~	0,00
through three poles connected in series	for 24 V	А	70
	60 V	A	70

CNN 60	CNN 60	CNN 60		Drilling plan (mm)
		600 V	A	0,35
		440 V	A	0,6
		220 V	A	3,5
		110 V	A	70
		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 ≤ 15 ms)			
utilization catego	ories DC3 to DC5			
		600 V	A	1
		440 V	A	3
		220 V	A	70
		110 V	А	70

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Drilling plan (mm)

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