

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 ten	nperature	°C	from -25 to +55
Consumption of electro	magnet 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
	closed	W	3,5
Coil voltage tolerances			0.85-1.1Un
).8 to 1.1 Un for each in c	voltages of electromagnet from		
			10 10 01
AC operated	closing time	ms	10 to 24 7 to 10
	opening time duration of electric arc	ms	10 to 10
DC an anota d		ms	10 to 15 15 to 40
DC operated	closing time opening time	ms ms	100 to 120
	duration of electric arc	ms	10 to 120
		1115	10 10 13
Frequency of switching without thermal reley			
utilizat	ion category AC1	s/h	1000
	AC2, AC3	s/h	750
20. Or encoderation	AC4	s/h	250
vith thermal relay		s/h	15
Resistivity to shocks	(square shock)	g/ms	9,2/5 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	А	100
DIN VDE 0660 Part 102	Type of coord. "2"	A	50
Sizes of connecting con 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
	flatbar	mm	-
	protective conductor with cable lug	mm²	-
	Screw		M6
	Screw head		PZ2
		Nm	3-4
uxiliary circuit	Tightening torque	INITI	3-4
	einele wine englisten		405
auxiliary circuit	single-wire conductor	mm ²	1-2.5
	single-wire conductor multi-wire conductor with cable shoe Screw	mm ² mm ²	1-2.5 0.75-1.5 M3.5

Screw head Tightening torque	Nm	PZ2 0,8 16 6
Loadability of auxiliary contacts Reated continuous current lth ; 35C	A	
AC rated operational current le/AC15 230V	А	
400V	A	4
500V	A	2,5
690V	A	2,5
		40
ated operational current le/DC1; L/R ≤1ms 24V 110V	A	10
220V	A	3,2 0,9
440V	A	0,33
600V	A	0,22
ated operational current le/DC13 for 24V	А	10
110V	A	1,8
220V	A	0,9
440V	А	0,27
_oad carrying capacity of the main contacts	A	0,18
ated continuus current ith ; 35C	А	85
AC1 utilization category		00
ated 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
AC4 utilization category 690V	kW	37
electrical endurance of contacts:120.000)		
ated current le/AC4	А	28
ratings of squirrel-cage motors at 50Hz for 230V	kW	7,3
400V	kW	14
500V	kW	16,2
690V	kW	21,8
Load carrying capacity of contactors at	A	
switching on and off of a.c. capacitors le (electrical endurance amounts to 0.1 milion switching operations)	A	
atings of individual capacitors at 50 Hz for 230V	kvar	-
400V	kvar	-
500V	kvar	-
690V	kvar	-
ratings of capacitor banks (minimum inductive reactance between two capacitors switched on in parallel amounts to 6μH;50 Hz		
for 230V	kvar	-
400V	kvar	-
500V	kvar	-
690V	kvar	-
Application in stator circuit of motor ntermittent operation AC2		
stator current at duty factor in intermittent periodic duty		
20%	А	103
40%	A	98
60% 80%	AA	87 80
Application in rotor circuit of motor	~	00
ntermittent operation		
ator current at duty factor in intermittent periodic duty		
	А	163
rotor current at duty factor in intermittent periodic duty 10% 20%	A A	163 163
10%		
$ \begin{array}{c} 10\% \\ 20\% \\ 40\% \\ 60\% \end{array} $	A A A	163 155 138
10% 20% 40% 60% 80%	A A A A	163 155 138 127
10% 20% 40% 60% 80%	A A A	163 155 138
10% 20% 40% 60% 80%	A A A A	163 155 138 127
10% 20% 40% 60% 80% continuous operation bermissible voltage of motionless rotor starting regulation	A A A A V V	163 155 138 127 127 1500 750
10% 20% 40% 60% 80% continuous operation permissible voltage of motionless rotor starting regulation counter current breaking Loadability by direct current	A A A A V	163 155 138 127 127 1500
10% 20% 40% 60% 80% continuous operation continuous operation starting regulation counter current breaking Loadability by direct current DC1 utilization category,non-inductive loads LR≤1 ms	A A A A V V	163 155 138 127 127 1500 750
10% 20% 40% 60% 80% continuous operation bermissible voltage of motionless rotor starting regulation counter current breaking DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le	A A A A V V V V	163 155 138 127 127 1500 750 660
10% 20% 40% 60% 80% continuous operation bermissible voltage of motionless rotor starting regulation counter current breaking DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le	A A A A V V	163 155 138 127 127 1500 750
10% 20% 40% 60% 80% continuous operation bermissible voltage of motionless rotor starting regulation counter current breaking Loadability by direct current DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le through one pole for 24 V	A A A A V V V V	163 155 138 127 127 1500 750 660 70
20% 40% 60% 80% continuous operation permissible voltage of motionless rotor starting regulation counter current breaking DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le through one pole for 24 V 60 V 110 V 220 V	A A A A V V V V V A A A A A A	163 155 138 127 127 1500 750 660 70 30 6 1,2
10% 20% 40% 60% 80% continuous operation permissible voltage of motionless rotor starting regulation counter current breaking Loadability by direct current DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le through one pole for 24 V 60 V 110 V	A A A A A V V V V V V A A A	163 155 138 127 127 1500 750 660 70 30 6

CNN 60	CNN 60	440 V 600 V CNN 60	A A	0,6 0,35 Drilling plan (mm)
		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	А	0,08
		440 V	А	0,1
		220 V	А	0,2
		110 V	A	0,75
0		60 V	А	2
rated operationation		for 24 V	А	5
	ories DC3 to DC5 ht motors (L/R ≤ 15 ms)			
		600 V	A	1
		440 V	A	3
		220 V	A	70
		110 V	A	70
		60 V	A	70
through three po	oles connected in series	for 24 V	A	70

