

RADE KONCAR CONTACTOR **CNN80 80**A/37kW (AC3, 400V/50Hz); 90(135)A(AC1)

Contactor type			CNN 80
Mechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	1000
Permissible ambient tem		°C	from -25 to +55
Consumption of electron	nagnet in cold state with Un		
AC operated	closing	VA	204
	P.F.		0,54
	closed	VA	16
	P.F.		0,26
DC operated	closing	W	200
0 - 11 14 4 - 1	closed	W	3,5
Coil voltage tolerances	ava alcin a		0.85-1.1Un
0.8 to 1.1 Un for each in co	oltages of electromagnet from		
AC aparatad	aloning time		0 to 25
AC operated	closing time	ms	9 to 35 9 to 15
	opening time duration of electric arc	ms	9 to 15
DC operated	closing time	ms ms	20 to 50
DO operateu	opening time	ms	120 to 150
	duration of electric arc	ms	10 to 15
	adiation of officers are	1110	10 10 10
requency of switching	operations		
without thermal reley			
utilizati	on category AC1	s/h	1000
	AC2, AC3	s/h	600
	AC4	s/h	200
with thermal relay		s/h	15
			9.6/5
Resistivity to shocks	(square shock)	g/ms	and
			5.2/10
Short-circuit protection contactors without overloa Main circuit With fuse links	d relays		
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	Α	125/160/160
OIN VDE 0660 Part 102	Type of coord. "2"	A	63/80/100
Sizes of connection con			
or contact without thermal	-		
main circuit	Rigid solid	mm ²	
	standed	mm²	25-70
	multi-wire conductor with cable shoe	mm^2	-
	standed with cable lug	mm²	25-50
	<u>.</u>		-
	flatbar	mm	-
	protective conductor with cable lug	mm²	_
	Screw	111111	M8
	Screw head		
	Tightening torque	Nm	4-4.5
auxiliary circuit	g	14111	1 7.0
auriniar y Oll Out	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	0001/	Δ.	2
rated operational current le/AC15	230V 400V	A A	6 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	A	0,22
rated operational current le/DC13	for 24V	А	10
rated operational carrent to, 2 0 to	110V	A	1,8
	220V	Α	0,9
	440V	A	0,27
-	600V	A	0,18
Load carrying capacity of the main contacts			405/405/405
rated continuus current ith; 35C AC1 utilization category		A	135/135/135
rated current le/AC1		А	95/105/115
AC2 and AC3 utilization categories	for 230V	kW	22/26/30
(slip-ring and cage motors at 50Hz)	400V	kW	37/45/55
(out und and ange material	690V	kW	55/67/67
AC4 utilization category			
(electrical endurance of contacts:120.000			
rated curent	le/AC4	A	32/34/36
	0001/	1147	0.7/40.4
ratings of squirrel-cage motors at 50Hz for	230V	kW	8.7/10.4
	400V 500V	kW kW	17/18 21/24
	690V	kW	20/30
Load carrying capacity of contactors at			20/00
swiyching on and off of a.c. capacitors	le	Α	
(electrical endurance amounts to 0.1 milion switch	ching operations)		
ratings of individual capacitors at 50 Hz for	230V	kvar	-
through one pole	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	acitors		
	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	o duty		
Stator current at duty factor in intermitent periodic	20%	А	135
	40%	A	110
	60%	Α	100
	80%	A	90
Application in rotor circuit of motor intermittent operation			
rotor current at duty factor in intermittent periodic	dutv		
The state of the s	10%	А	193
	20%	A	193
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40%	A	173
Глл] ,	60%	A	158
	80%	A	138
continuous operation permissible voltage of motionless rotor		A	138
permissible voltage of motioniess rotor	starting	V	1800
	regulation	V	880
counter of	current breaking	V	750
Loadability by direct current			
DC1 utilization category,non-inductive loads LR≤	1 ms		
rated operational current le			
through one pole	for 24 V	A	90
	60 V	A	75
	110 V	A	12
	220 V 440 V	A A	2,5 0,6
	600 V	A	0,6
		/1	0,10
through three poles connected in series	for 24 V	А	100
-	60 V	A	100

	110 V	A	100	
	220 V	A	100	
	440 V	A	6	
	600 V	A	3,4	
utilization categories DC3 to DC5				
series and shunt motors (L/R ≤ 15 ms)				
rated operational current le				
	for 04 V	Δ.	0	
through one pole	for 24 V	A	6	
	60 V	A	3	
	110 V	A	1,25	
	220 V	A	0,35	
	440 V	A	0,15	
	600 V	A	0,1	
through three poles connected in series	for 24 V	A	90	
· ·	60 V	A	90	
	110 V	A	90	
	220 V	A	3,8	
	440 V	A	0,7	
	600 V	A	0,4	

