Contactor type



CNN 80



RADE KONCAR CONTACTOR CNN80 80A/37kW (AC3, 400V/50Hz); 95A(AC1)

ontactor type			C1414 00
lechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating	•	V	1000
Permissible ambient ten	nperature	°C	from -25 to +55
	magnet 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
	closed	W	3,5
oil voltage tolerances			0.85-1.1Un
uration of making and			
	oltages of electromagnet from		
.8 to 1.1 Un for each in c	•		
	lition of opening time and duration		
f electric zrc.			
O	alasias tima		0.4- 05
C operated	closing time	ms	9 to 35
	opening time	ms	9 to 15
C aparatad	duration of electric arc	ms	10 to 15
OC operated	closing time	ms	20 to 50
	opening time	ms	120 to 150 10 to 15
	duration of electric arc	ms	10 10 15
requency of switching	operations		
vithout thermal reley			
•	ion category AC1	s/h	1000
	AC2. AC3	s/h	600
	AC4	s/h	200
vith thermal relay		s/h	15
			9.6/5
Resistivity to shocks	(square shock)	g/ms	and
			5.2/10
Short-circuit protection			
ontactors without overloa	ad relays		
/lain circuit			
Vith fuse links			
icc. To IEC 60947-4-1	Type of coord. "1" gl/gG	Α	125
IN VDE 0660 Part 102	Type of coord. "2"	Λ	63
		A	- 00
	ductors	A	00
	ductors		
or contact without therma	ductors	mm ²	
or contact without therma	ductors al relay	mm² mm²	25-70
or contact without therma	ductors il relay Rigid solid	mm²	
or contact without therma	ductors Il relay Rigid solid standed multi-wire conductor with cable shoe	mm² mm²	
or contact without therma	ductors il relay Rigid solid standed	mm² mm² mm²	25-70 -
or contact without therma	ductors Il relay Rigid solid standed multi-wire conductor with cable shoe	mm² mm² mm²	25-70 -
or contact without therma	Aductors Il relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug	mm² mm² mm² mm²	25-70 -
or contact without therma	ductors Il relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar	mm² mm² mm² mm²	25-70 -
or contact without therma	Aductors It relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug	mm² mm² mm² mm	25-70 - 25-50 - - - -
or contact without therma	Aductors Il relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw	mm² mm² mm² mm	25-70 -
or contact without therma	Aductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head	mm² mm² mm² mm² mm	25-70 - 25-50 - - - - M8
or contact without therma	Aductors Il relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw	mm² mm² mm² mm	25-70 - 25-50 - - - - - M8
or contact without therma	Aductors Il relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head Tightening torque	mm² mm² mm² mm² mm	25-70 - 25-50 - - - - - M8 \triangle 4-4.5
or contact without therma	Aductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head Tightening torque single-wire conductor	mm² mm² mm² mm² mm² mm mm	25-70 - 25-50 - - - - M8 \triangle 4-4.5
izes of connection con or contact without therma nain circuit	Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head Tightening torque single-wire conductor with cable shoe	mm² mm² mm² mm² mm	25-70 - 25-50 - - - M8
or contact without therma	Aductors al relay Rigid solid standed multi-wire conductor with cable shoe standed with cable lug flatbar protective conductor with cable lug Screw Screw head Tightening torque single-wire conductor	mm² mm² mm² mm² mm² mm mm	25-70 - 25-50 - - - - M8 \times 4-4.5

Tightening torque		Nm	0,8
Loadability of auxiliary contacts Reated continuous current lth; 35C	А	16	
AC			
rated operational current le/AC15	230V 400V	A A	6 4
	500V	A	2,5
DC	690V	А	2,5
rated operational current le/DC1; L/R ≤1ms	24V	А	10
•	110V	A	3,2
	220V 440V	A A	0,9 0,33
	600V	A	0,22
rated operational current le/DC13	for 24V	А	10
Tated operational current te/De to	110V	A	1,8
	220V	A	0,9
	440V 600V	A A	0,27 0,18
Load carrying capacity of the main contacts			
rated continuus current ith ; 35C AC1 utilization category		А	135
rated current le/AC1		A	95
AC2 and AC3 utilization categories (slip-ring and cage motors at 50Hz)	for 230V 400V	kW kW	22 37
(sip-ing and cage motors at soriz)	690V	kW	55
AC4 utilization category (electrical endurance of contacts:120.000			
rated curent	le/AC4	А	32
	0001/		0.7/40.4
ratings of squirrel-cage motors at 50Hz for	230V 400V	kW kW	8.7/10.4 17/18
	500V	kW	21/24
Load carrying capacity of contactors at	690V	kW	20/30
swiyching on and off of a.c. capacitors	le	А	
(electrical endurance amounts to 0.1 milion swit	,		
ratings of individual capacitors at 50 Hz for through one pole	230V 400V	kvar kvar	-
anough one polo	500V	kvar	-
	690V	kvar	-
ratings of capacitor banks			
(minimum inductive reactance between two cap	pacitors		
switched on in parallel amounts to 6μH;50 Hz	for 230V	kvar	-
	400V	kvar	-
	500V	kvar	-
Application in stator circuit of motor	690V	kvar	-
intermitent operation AC2			
stator current at duty factor in intermitent period	ac duty 20%	А	135
	40%	А	110
	60% 80%	A A	100 90
Application in rotor circuit of motor	5070	Λ	50
intermittent operation rotor current at duty factor in intermittent period	ic duty		
	10%	A	193
	20%	A	193
	40% 60%	A A	173 158
	80%	А	138
continuous operation permissible voltage of motionless rotor		A	138
pormissible voltage of motioniese roter	starting	V	1800
counter	regulation current breaking	V	880 750
Loadability by direct current	Sanone broaking	V	. 50
DC1 utilization category,non-inductive loads LR	≤1 ms		
rated operational current le			
through one pole	for 24 V	A	90
	60 V 110 V	A A	75 12
	220 V	А	2,5
	440 V 600 V	A A	0,6 0,48
through three poles connected in series	for 24 V	А	100

	60 V 110 V	A A	100 100
	220 V	A	100
	440 V	A	6
	600 V	Ä	3,4
utilization categories DC3 to DC5 series and shunt motors (L/R ≤ 15 ms)	000 1		0, 1
rated operational current le			
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	А	90
	60 V	A	90
	110 V	Α	90
	220 V	A	3,8
	440 V	A	0,7
	600 V	A	0,4

