



RADE KONCAR CONTACTOR **CNM400 400**A/160kW (AC3, 400V/50Hz); 400A(AC1)

Contactor type			CNM 400
Mechanical endurance	make/brake operations	x10 ⁶	3
nsulation rating		V	1000
Permissible ambient ter		°C	from -25 to +55
Consumption of electro	magnet in cold state with Un		
AC operated	closing	VA	1340
	P.F.		0,41
	closed	VA	84
	P.F.		0,25
DC operated	closing	W	1180
	closed	W	8
oil voltage tolerances uration of making and	brooking		0.85-1.1Un
	voltages of electromagnet from		
.8 to 1.1 Un for each in c			
f electric arc.	lition of opening time and duration		
relectric arc.			
C operated	closing time	ms	20 to 50
	opening time	ms	10 to 30
	duration of electric arc	ms	10 to 15
C operated	closing time	ms	30 to 100
o operated	opening time	ms	15 to 30
	duration of electric arc	ms	10 to 15
		mo	10 10 10
requency of switching	operations		
vithout thermal relev			
utilizat	tion category AC1	s/h	1000
	AC2, AC3	s/h	500
	AC4	s/h	250
vith thermal relay		s/h	15
,			10/5.6
Resistivity to shocks	(square shock)	g/ms	and
-		-	5/12
Short-circuit protection	of		
ontactors without overloa	ad relays		
lain circuit			
Vith fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	630
DIN VDE 0660 Part 102	Type of coord. "2"	А	500
izes of connection cor			
or contact without therma	al relay		
main circuit	Rigid solid	mm ²	
	standed	mm²	-
	multi-wire conductor with cable shoe	mm ²	
	standed with cable lug	mm ²	2x150
	Standed with cable lug		28100
	flatbar	mm	2x25x3
	natbai		ZAZOAO
	protective conductor with cable lug	mm²	50-120
	Screw		M10
	Screw head		IVITO
		Nim	4
	Tightening torque	Nm	4
uvilion coirouit			
uxiliary circuit		2	
uxiliary circuit	single-wire conductor	mm ²	1-2.5
uxiliary circuit	single-wire conductor multi-wire conductor with cable shoe	mm ² mm ²	1-2.5 0.75-1.5 M3.5

Screw head Tightening torque		Nm	PZ2 0,8
Loadability of auxiliary contacts of contactors CNN + BP5;CNM Reated continuous current lth ; 35C		A	16
AC			
rated operational current le/AC15	230V	A	6
	400V 500V	A	4 2,5
	690V	A	2,5
DC	0001		2,0
rated operational current le/DC1; L/R ≤1ms	24V	A	10
	110V	A	8
	220V	A	2
	440V	A	0,6
	600V	A	0,4
rated operational current le/DC13	for 24V	А	10
	110V	A	2,4
	220V	A	1,1
	440V	A	0,32
	600V	A	0,21
Load carrying capacity of the main contacts rated continuus current ith ; 35C		0	400
AC1 utilization category		A	400
rated current le/AC1; 55C		А	400
AC2 and AC3 utilization categories	for 230V	kW	115
(slip-ring and cage motors at 50Hz)	400V	kW	220
	690V	kW	355
AC4 utilization category			
(electrical endurance of contacts:120.000 rated curent		A	450
rated curent	le/AC4	A	150
ratings of squirrel-cage motors at 50Hz for	230V	kW	37,5
ange of equiner edge motors at OUT2 IO	400V	kW	69
	500V	kW	85,5
	690V	kW	106
Load carrying capacity of contactors at			
swiyching on and off of a.c. capacitors	le	A	
(electrical endurance amounts to 0.1 milion switch ratings of individual capacitors at 50 Hz for	230V	kvar	115
through one pole	400V	kvar	200
	500V	kvar	265
	690V	kvar	200
ratings of capacitor banks			
(minimum inductive reactance between two capac	itors		
switched on in parallel amounts to 6μ H;50 Hz	(a. 000)/	Loren	05
	for 230V 400V	kvar	85 150
	400V 500V	kvar kvar	195
	690V	kvar	150
Application in stator circuit of motor	0001	itter	100
intermitent operation AC2			
stator current at duty factor in intermitent periodic	duty		
	20%	A	617
	40%	A	490
	60%	A	436
Application in rotor circuit of motor	80%	A	400
intermittent operation			
rotor current at duty factor in intermittent periodic of	duty		
	10%	А	1075
	20%	A	975
\\+\+\+++	40%	А	775
ן ן ט ט ן י ן	60%	A	689
	80%	A	632
continuous operation permissible voltage of motionless rotor		A	632
permissible voltage of motioniess 10101	starting	V	2000
	regulation	V	1000
	rrent breaking	V	880
Loadability by direct current			
DC1 utilization category,non-inductive loads LR≤1	ms		
rated operational current le 55°C	for 24 V	٨	400
through one pole	for 24 V 60 V	A	400 330
	110 V	A	33
	220 V	A	3,8
	440 V	A	0,9
	600 V	A	0,6
	000 v	7.0	0,0

through three poles connected in corios	for 24 V	А	400
through three poles connected in series			
	60 V	A	400
	110 V	A	400
	220 V	A	400
	440 V	A	11
	600 V	A	5,2
utilization categories DC3 to DC5			
series and shunt motors (L/R \leq 15 ms)			
rated operational current le 55° C			
through one pole	for 24 V	A	35
	60 V	A	11
	110 V	A	3
	220 V	А	0,6
	440 V	А	0,18
	600 V	A	0,12
	000 1		0,12
through three poles connected in series	for 24 V	А	400
	60 V	А	400
	110 V	А	400
	220 V	A	400
	440 V	A	1,4
	600 V	A	0,75
	000 v	A	0,70

CNM 400

