

## RADE KONCAR CONTACTOR **CNN9** 9A/4.5kW (AC3, 400V/50Hz); 25A(AC1)

Contactor type				CNN 9
lechanical endurance	make/brake operati	ons	x10 <sup>6</sup>	5
nsulation rating			V	690
Premissible ambient tem			°C	from -25 to +55
	gnet in cold state with Un			
AC operated	closing		VA	62
	P.F.		VA	0.75 7
	closed P.F.		VA	0.3
DC operated	closing		W	0.5
Do operated	closed		Ŵ	-
Coil voltage tolerance				0.85-1.1Un
duration of making and b				
	Itages of electromagnet from			
0.8 to 1.1 Un for each in co	·			
	ion of opening time and duration	1		
of electric zrc.				
AC operated	closing time		ms	12 to 22
F = :	opening time		ms	4 to 19
	duration of electric arc		ms	10
Frequency of switching of	perations			
without thermal reley				4000
utilizati	n category AC1		s/h	1000
	AC2, AC3 AC4	5	s/h s/h	750 250
vith thermal relay	AC4		s/h	15
with thermal relay			3/11	7/5
Resistivity to shock	(square shock)		g/ms	and
			-	4.2/10
Short-circuit protection of	f			
contactors without overload	relays			
Main circuit				
With fuse links				
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG		A	25
DIN VDE 0660 Part 102 Size of connection cond	Type of coord. "2"		A	20
contactors without overload				
	single-wire conductors		mm <sup>2</sup>	1.5-6
main circuit	multi-wire conductors		mm <sup>2</sup>	1.5-6
	Screw	e shoe	TTITT	1.5-б М4
	Screw head			PZ2
	Tightening torque		Nm	1.2
auxiliary circuit	3 4 3 4 14			
	single-wire conductor		mm <sup>2</sup>	1-2.5
	multi-wire conductor with cab	le shoe	mm <sup>2</sup>	0.75-1.5
	Screw	-		M3.5
	Screw head			PZ2
	Tightening torque		Nm	0.8
	ontacts of contactors CM1 an	d CNN		
Reated continuous current			A	10
ated operational current le			A	6
	230V		A	6
	400V 500V		A A	4
	690V		A	2 1
ated operational current le			A	4
	110V		A	0.6
				0.0

ated continuus current ith ; 55C		٨	25
C1 utilization category		A	25
ated operational current le/AC1; 55C	for 0201/	A kW	25 3.2
C2 and AC3 utilization categories	for 230V		
slip-ring and cage motors at 50Hz)	400V	kW	4.5
04 at 11 at 1 and 1 at 1 a	690V	kW	5.5
	000 for CM1N)		
electrical endurance of contacts:120.0 (80.0			
ated curent	le/AC4	A	4.5
atings of squirrel-cage motors at 50Hz	for 230V	kW	0.75
	400V	kW	1.9
	500V	kW	1.9
	690V	kW	1.5
oadability by direct current			
C1 utilization category, non-inductive load			
ated operational current le, 55C	for 24V	A	20
nrough one pole	48V	A	20
	110V	A	2.1
	220V	A	0.8
	440V	A	0.6
	600V	A	0.6
nrough three poles connected in series	for 24V	A	20
	48V	A	20
	110V	A	20
	220V	A	20
	440V	A	1.3
	600V	A	1
tilization category DC3 to DC5 eries and shunt motors (L/R15 ms)			
ated operational current le, 55C	for 24V	А	20
arough one pole	48V	A	5
	110V	A	1.5
	220V	A	0.75
	440V	A	-
	600V	A	-
nrough three poles connected in series	for 24V	A	20
	48V	A	20
	110V	A	20
	220V	A	1.5
	440V	Â	0.2
	600V	A	0.2
imensions			0.12
		mm	45
		mm	72.2
		mm	71
Veight		g	260