

RADE KONCAR CONTACTOR CNN22 22A/11kW (AC3, 400V/50Hz); 30A(AC1)

Contactor type				CNN 22
Mechanical endurance	make/brake operations		x10 ⁶	5
Insulation rating			V	690
Permissible ambient tem	perature	°C	from -25 to +55	
Consumption of electron	nagnet in cold state with	Un		
AC operated	closing		VA	62
	P.F. closed		1//	0,75
	P.F.		VA	7 0,3
DC operated	closing		W	123
	closed		W	2,8
Coil voltage tolerances				0.85-1.1Un
duration of making and b				
(values are also valid for v		om		
0.8 to 1.1 Un for each in co	*	and the s		
Total breaking time is addition of electric arc.	tion of opening time and di	iration		
or electric arc.				
AC operated	closing time		ms	12 to 22
	opening time		ms	4 to 19
	duration of electric arc		ms	10
Frequency of switching	operations			
without thermal reley				
utilizati	on category	AC1	s/h	1000
		AC2, AC3 AC4	s/h s/h	750 250
with thermal relay		A04	s/h	15
with thermal relay			3/11	8.2/5
Resistivity to shocks	(square shock)		g/ms	and
	, ,			4.9/10
Short-circuit protection of	of			
contactors without overload	d relays			
Main circuit				
With fuse links	Type of seerd "4" al/aC		Λ	<i>E</i> 0
acc. To IEC 60947-4-1 DIN VDE 0660 Part 102	Type of coord. "1" gl/gG Type of coord. "2"		A A	50 35
Sizes of connection cond				
for contact without thermal	relay			
main circuit	single-wire conductors		mm^2	2.5-10
	multi-wire conductor with	h cable shoe	mm ²	2.5-10
	Screw			M4
	Screw head			PZ2
	Tightening torque		Nm	1,4
auxiliary circuit			2	
	single-wire conductor		mm ²	1-2.5
	multi-wire conductor with	h cable shoe	mm ²	0.75-1.5
	Screw			M3.5
	Screw head		Nm	PZ2 0,8
Loadability of auxiliary c	Tightening torque		INIII	0,0
Reated continuous current lth; 35C			А	_
rated operational current le/AC15		for 24V	A	-
•		230V	A	-
		400V	A	-
		500V	A	-
and a discount of the second	(DO40	690V	A	-
rated operational current le/DC13		for 24V	A	-
		110V 230V	A A	-
-		200 v	Λ	

Load carrying	capacity of	the	main	contacts
rated continuus	current ith			

rated continuus current ith				
AC1 utilization category		A	40	
rated operational current le/AC1		A	40	
AC2 and AC3 utilization categories	for 230V	kW	5,5	
(slip-ring and cage motors at 50Hz)	400V	kW	11	
	690V	kW	11	
AC4 utilization category				
(electrical endurance of contacts:120.000				
rated curent	le/AC4	A	7	
ratings of squirrel-cage motors at 50Hz	for 230V	kW	1,7	
	400V	kW	3,3	
	500V	kW	3,3	
	690V	kW	3,3	
Loadability by direct current				
DC1 utilization category, non-inductive loads L/R1 ms				
rated operational current le	for 24V	Α	20	
through one pole	48V	Α	20	
	110V	Α	2,1	
	220V	Α	0,8	
	440V	Α	0,6	
	600V	Α	0,6	
through three poles connected in series	for 24V	Α	20	
	48V	A	20	
	110V	Α	20	
	220V	A	20	
	440V	A	1,3	
	600V	A	1	
utilization category DC3 to DC5				
series and shunt motors (L/R15 ms)				
rated operational current le	for 24V	A	20	
through one pole	48V	A	5	
	110V	A	1,5	
	220V	A	0,75	
	440V	Α	0,09	
	600V	Α	0,06	
through three poles connected in series	for 24V	A	20	
	48V	A	20	
	110V	Α	20	
	220V	Α	6	
	440V	A	0,2	
	600V	A	0,2	

