



**RADE KONCAR CONTACTOR CNN30**  
**30A/15kW (AC3, 400V/50Hz); 40A(AC1)**  
 In conformity with standard IEC 60947-4-1

Contactor type			CNN 30	
<b>Mechanical endurance</b>	make/brake operations		$\times 10^6$	5
<b>Insulation rating</b>			V	690
<b>Permissible ambient temperature</b>			°C	from -25 to +55
<b>Consumption of electromagnet in cold state with Un</b>				
AC operated	closing		VA	62
	P.F. closed		VA	0.75
DC operated	closing		W	7
	closed		W	0.3
				125
				2.8
<b>Coil voltage tolerances</b>				0.85-1.1Un
<b>duration of making and breaking</b>				
(values are also valid for voltages of electromagnet from 0.8 to 1.1 Un for each in cold and warm state).				
Total breaking time is addition of opening time and duration of electric arc.				
AC operated	closing time		ms	12 to 22
	opening time		ms	4 to 19
	duration of electric arc		ms	10
<b>Frequency of switching operations</b>				
without thermal relay				
	utilization category	AC1	s/h	1000
		AC2, AC3	s/h	750
		AC4	s/h	250
with thermal relay				
			s/h	15
<b>Resistivity to shocks</b> (square shock)				8.2/5 and 4.9/10
<b>Short-circuit protection of contactors without overload relays</b>				
<b>Main circuit</b>				
With fuse links				
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG		A	50
DIN VDE 0660 Part 102	Type of coord. "2"		A	35
<b>Sizes of connection conductors</b>				
for contact without thermal relay				
main circuit	single-wire conductors		mm <sup>2</sup>	2.5-10
	multi-wire conductor with cable shoe		mm <sup>2</sup>	2.5-10
	Screw			M4
	Screw head			PZ2
auxiliary circuit	Tightening torque		Nm	1.4
	single-wire conductor		mm <sup>2</sup>	1-2.5
	multi-wire conductor with cable shoe		mm <sup>2</sup>	0.75-1.5
	Screw			M3.5
	Screw head			PZ2
	Tightening torque		Nm	0.8
<b>Loadability of auxiliary contacts</b>				
Rated continuous current I <sub>th</sub> ; 40 °C			A	-
rated operational current I <sub>e</sub> /AC15	for 24V		A	-
	230V		A	-
	400V		A	-
	500V		A	-
	690V		A	-
	110V		A	-
rated operational current I <sub>e</sub> /DC13	for 24V		A	-
	110V		A	-

	230V	A	-
<b>Load carrying capacity of the main contacts</b>			
rated continuous current I <sub>th</sub>		A	40
AC1 utilization category		A	40
rated operational current I <sub>e</sub> /AC1		A	40
<b>AC2 and AC3 utilization categories</b>			
	for 230V	kW	7.5
(slip-ring and cage motors at 50Hz)	<b>400V</b>	<b>kW</b>	<b>15</b>
	690V	kW	15
<b>AC4 utilization category</b>			
(electrical endurance of contacts:120.000)			
rated current	I <sub>e</sub> /AC4	A	9
ratings of squirrel-cage motors at 50Hz	for 230V	kW	2.5
	<b>400V</b>	<b>kW</b>	<b>4.4</b>
	500V	kW	4.4
	690V	kW	4.4
<b>Loadability by direct current</b>			
DC1 utilization category, non-inductive loads L/R1 ms			
rated operational current I <sub>e</sub>	for 24V	A	35
through one pole	48V	A	20
	110V	A	4.5
	220V	A	1
	440V	A	0.6
	600V	A	0.6
through three poles connected in series	for 24V	A	35
	48V	A	35
	110V	A	35
	220V	A	35
	440V	A	2.9
	600V	A	1.4
utilization category DC3 to DC5 series and shunt motors (L/R15 ms)			
rated operational current I <sub>e</sub>	for 24V	A	20
through one pole	48V	A	5
	110V	A	2.5
	220V	A	1
	440V	A	0.09
	600V	A	0.06
through three poles connected in series	for 24V	A	35
	48V	A	35
	110V	A	35
	220V	A	10
	440V	A	0.6
	600V	A	0.3

