



RADE KONCAR CONTACTOR **CNN18**
18A/7,5kW (AC3, 400V/50Hz); 30A(AC1)

Contactor type			CNN 18
Mechanical endurance	make/brake operations	x10 ⁶	5
Insulation rating		V	690
Permissible ambient temperature		°C	from -25 to +55
Consumption of electromagnet in cold state with Un			
AC operated	closing	VA	62
	P.F.		0,75
	closed	VA	7
	P.F.		0,3
DC operated	closing	W	123
	closed	W	2,8
Coil voltage tolerances			0.85-1.1Un
duration of making and breaking			
(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
Frequency of switching operations			
without thermal relay			
utilization category	AC1	s/h	1000
	AC2, AC3	s/h	750
	AC4	s/h	250
		s/h	15
with thermal relay			
Resistivity to shocks (square shock)			7/5 and 4.2/10
Short-circuit protection of contactors without overload relays			
Main circuit			
With fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gI/gG	A	40
DIN VDE 0660 Part 102	Type of coord. "2"	A	25
Sizes of connection conductors			
for contact without thermal relay			
main circuit	single-wire conductors	mm ²	1.5-6
	multi-wire conductor with cable shoe	mm ²	1.5-6
	Screw		M4
	Screw head		PZ2
	Tightening torque	Nm	1,2
auxiliary circuit	single-wire conductor	mm ²	1-2.5
	multi-wire conductor with cable shoe	mm ²	0.75-1.5
	Screw		M3.5
	Screw head		PZ2
	Tightening torque	Nm	0,8
Loadability of auxiliary contacts			
Rated continuous current Ith ; 35°C		A	10
rated operational current Ie/AC15	for 24V	A	6
	230V	A	6
	400V	A	4
	500V	A	2
	690V	A	1
	for 24V	A	4
rated operational current Ie/DC13	110V	A	0,6
	230V	A	0,3

Load carrying capacity of the main contacts

rated continuous current I_{th}

AC1 utilization category

rated operational current $I_e/AC1$

A 30
A 30

AC2 and AC3 utilization categories

(slip-ring and cage motors at 50Hz)

for 230V
400V
690V

kW 4
kW 7,5
kW 10

AC4 utilization category

(electrical endurance of contacts:120.000

rated current

ratings of squirrel-cage motors at 50Hz

$I_e/AC4$
for 230V
400V
500V
690V

A 6,7
kW 1,5
kW 3
kW 3
kW 3

Loadability by direct current

DC1 utilization category, non-inductive loads L/R1 ms

rated operational current I_e , 55C

through one pole

for 24V
48V
110V
220V
440V
600V

A 20
A 20
A 2,1
A 0,8
A 0,6
A 0,6

through three poles connected in series

for 24V
48V
110V
220V
440V
600V

A 20
A 20
A 20
A 20
A 1,3
A 1

utilization category DC3 to DC5

series and shunt motors (L/R15 ms)

rated operational current I_e

through one pole

for 24V
48V
110V
220V
440V
600V

A 20
A 5
A 1,5
A 0,75
A 0,09
A 0,06

through three poles connected in series

for 24V
48V
110V
220V
440V
600V

A 20
A 20
A 20
A 6
A 0,2
A 0,2

