Contactor type



**CNM 110ST** 



## RADE KONCAR CONTACTOR CNM110ST 110A/55kW (AC3, 400V/50Hz); 115A(AC1)

Mechanical endurance	make/brake operations	x10 <sup>6</sup>	5			
Insulation rating		V	1000			
Permissible ambient tem		°C	from -25 to +55			
Consumption of electromagnet in cold state with Un						
AC operated	closing	VA	300			
	P.F.		0,5			
	closed	VA	26			
	P.F.		0,24			
DC operated	closing	W	690			
	closed	W	4			
Coil voltage tolerances			0.85-1.1Un			
duration of making and b						
	oltages of electromagnet from					
0.8 to 1.1 Un for each in co						
	tion of opening time and duration					
of electric zrc.						
AC operated	closing time	ms	20 to 50			
, to operated	opening time	ms	8 to 30			
	duration of electric arc	ms	10 to 15			
DC operated	closing time	ms	20 to 60			
DC operated	opening time	ms	150 to 190			
	duration of electric arc	ms	10 to 15			
	duration of olootile are	1110	10 10 10			
Frequency of switching of	pperations					
without thermal reley	•					
utilizatio	on category AC1	s/h	1000			
	AC2, AC3	s/h	500			
	AC4	s/h	250			
with thermal relay		s/h	15			
			10/5			
Resistivity to shocks	(square shock)	g/ms	and			
-			5/10			
Short-circuit protection						
contactors without overload	d relays					
Main circuit						
With fuse links						
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	A	200			
DIN VDE 0660 Part 102	Type of coord. "2"	Α	10			
Sizes of connection conductors						
for contact without thermal		3				
main circuit	Rigid solid	mm <sup>2</sup>				
	standed	mm²	-			
	multi-wire conductor with cable shoe	mm <sup>2</sup>	-			
	standed with cable lug	mm²	6-35			
			25-60			
	flatbar	mm	15x2.5			
			15x3			
	protective conductor with cable lug	mm²	-			
	Screw		M6			
	Screw head					
	Tightening torque	Nm	2.5			
auxiliary circuit						
	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 Tightening torque		Nm	PZ2 0,8
Loadability of auxiliary contacts of contactor	s CNN + BP5;CNM	1411	0,0
Reated continuous current lth; 35C AC	А	16	
rated operational current le/AC15	230V	Α	6
	400V	A	4
	500V	A	2,5
DC	690V	А	2,5
rated operational current le/DC1; L/R ≤1ms	24V	A	10
rated operational outron (c/DO1, L/TC 211115	110V	A	3,2
	220V	A	0,9
	440V	A	0,33
	600V	A	0,22
rated operational current le/DC13	for 24V	A	10
	110V	A	1,8
	220V	A	0,9
	440V	A	0,27
	600V	A	0,18
Load carrying capacity of the main contacts		^	445
rated continuus current ith; 35C AC1 utilization category		A	115
rated current le/AC1; 55C		А	115
AC2 and AC3 utilization categories	for 230V	kW	37
(slip-ring and cage motors at 50Hz)	400V	kW	55
	690V	kW	90
AC4 utilization category			
(electrical endurance of contacts:120.000			
rated curent	le/AC4	A	42
ratings of squirrel-cage motors at 50Hz for	230V	kW	12
	400V	kW	22
	500V	kW	27
	690V	kW	36
Load carrying capacity of contactors at			
swiyching on and off of a.c. capacitors	le	A	58
(electrical endurance amounts to 0.1 milion switch	hing operations) 230V	kvar	24
ratings of individual capacitors at 50 Hz for through one pole	400V	kvar	40
through one pole	500V	kvar	50
	690V	kvar	40
ratings of capacitor banks (minimum inductive reactance between two capa	citors		
switched on in parallel amounts to 6μH;50 Hz			
	for 230V	kvar	24
	400V	kvar	40
	500V	kvar	50
Application in states sincult of mater	690V	kvar	40
Application in stator circuit of motor intermitent operation AC2			
stator current at duty factor in intermitent periodic	c duty		
and the second s	20%	A	153
	40%	A	122
	60%	A	109
Application in action described as a section	80%	A	100
Application in rotor circuit of motor intermittent operation			
rotor current at duty factor in intermittent periodic	10%	A	293
	20%	Ä	242
\ - -\-\-	40%	A	193
	60%	A	173
	80%	Α	158
continuous operation		A	158
permissible voltage of motionless rotor	starting	V	2000
	regulation	V	1000
counter of	current breaking	V	880
Loadability by direct current DC1 utilization category,non-inductive loads LR≤	1 ms		
rated operational current le 55°C through one pole	for 24 V	А	160
anough one pole	60 V	A	80
	110 V	A	18
	220 V	A	3,4
	440 V	A	0,8
	600 V	А	0,5

through three poles connected in series	for 24 V	A	100
	60 V	A	100
	110 V	A	100
	220 V	A	100
	440 V	A	6
	600 V	A	3,4
utilization categories DC3 to DC5			
series and shunt motors (L/R ≤ 15 ms)			
rated operational current le 55° C			
through one pole	for 24 V	A	16
an ough one pois	60 V	A	7,5
	110 V	Ä	
			2,5
	220 V	A	0,6
	440 V	A	0,17
	600 V	A	0,12
through three poles connected in series	for 24 V	А	100
3	60 V	A	100
	110 V	A	100
	220 V	A	4
	440 V	A	0,8
	600 V	A	0,45

## CNM 110ST

