Contactor type



CNM 110



RADE KONCAR CONTACTOR **CNM110 110**A/55kW (AC3, 400V/50Hz); 115A(AC1)

Mechanical endurance	make/brake operations	x10 ⁶	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			
50	P.F.	147	0,24			
DC operated	closing	W	690			
Coil voltage tolerances	closed	W	4 0.85-1.1Un			
duration of making and b	roaking		0.83-1.1011			
	bltages of electromagnet from					
0.8 to 1.1 Un for each in co						
	ion of opening time and duration					
of electric zrc.	pg					
AC operated	closing time	ms	20 to 50			
	opening time	ms	8 to 30			
	duration of electric arc	ms	10 to 15			
DC operated	closing time	ms	20 to 50			
	opening time	ms	150 to 190			
	duration of electric arc	ms	10 to 15			
En						
Frequency of switching of	pperations					
without thermal reley	on category AC1	s/h	1000			
utilizatio	on category AC1 AC2, AC3	s/h	500			
	AC4	s/h	250			
with thermal relay	7.04	s/h	15			
Will the man roley		5,11	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"	A	125			
Sizes of connection conductors						
for contact without thermal		2				
main circuit	Rigid solid	mm ²				
	standed	mm²	-			
	multi-wire conductor with cable shoe	mm ²	-			
	standed with cable lug	mm²	6-35			
	7. 4		25-60			
	flatbar	mm	15x2.5			
		2	15x3			
	protective conductor with cable lug	mm²	-			
	Screw head		M6			
	Screw head	Nm	2.5			
auxiliary circuit	Tightening torque	INIII	2.0			
admidity diffult	oingle wire conductor	mm^2	1-2.5			
	single-wire conductor					
	multi-wire conductor with cable shoe Screw	mm ²	0.75-1.5 M3.5			
	OCI GAA		IVIO.U			

Tightening torque Loadability of auxiliary contacts Reated continuous current lth; 35C AC rated operational current le/AC15 230V 400V	Nm A	0,8
Reated continuous current lth ; 35C AC rated operational current le/AC15 230V	А	
·		16
400V	A	6
	A	4
500V	A	2,5
690V	A	2,5
DC rated operational current le/DC1; L/R ≤1ms 24V	А	10
110V	A	3,2
220V	A	0,9
440V	A	0,33
600V	А	0,22
rated operational current le/DC13 for 24V	А	10
110V	A	1,8
220V	A	0,9
440V	A	0,27
600V	A	0,18
Load carrying capacity of the main contacts	А	115
rated continuus current ith; 35C AC1 utilization category	A	115
rated current le/AC1	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	А	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	A	58
(electrical endurance amounts to 0.1 milion switching operations)		
ratings of individual capacitors at 50 Hz for 230V	kvar	24
through one pole 400V	kvar	40
500V 690V	kvar kvar	50 40
050 V	Kvai	40
ratings of capacitor banks (minimum inductive reactance between two capacitors switched on in parallel amounts to $6\mu H;50~Hz$		
for 230V	kvar	24
400V	kvar	40
500V	kvar	50
690V	kvar	40
Application in stator circuit of motor		.0
intermitent operation AC2 stator current at duty factor in intermitent periodic duty		
20%	А	153
40%	A	122
60%	A	109
80%	А	100
Application in rotor circuit of motor intermittent operation		
rotor current at duty factor in intermittent periodic duty 10%	Λ	293
[[] [] [] 20%	A A	293 242
40%	A	193
60%	A	173
80%	A	158
continuous operation	A	158
permissible voltage of motionless rotor		0
starting	V	2000
regulation counter current breaking	V	1000 880
	V	000
Loadability by direct current DC1 utilization category pon-inductive loads LR<1 ms		
DC1 utilization category,non-inductive loads LR≤1 ms		
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C	Λ	160
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C through one pole for 24 V	Α	160 80
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C through one pole for 24 V 60 V	Α	80
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C through one pole for 24 V 60 V 110 V	A A	80 18
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C through one pole for 24 V 60 V	Α	80
DC1 utilization category,non-inductive loads LR≤1 ms rated operational current le 55°C through one pole for 24 V 60 V 110 V 220 V	A A A	80 18 3,4

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

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