



RADE KONCAR MINI CONTACTOR **CM1** 9A/4kW (AC3, 400V/50Hz); 20A(AC1)

Contactor type		-	CM1
Mechanical endurance	make/brake operations	x10 ⁶	5
nsulation rating		V	690
Permissible ambient ten		°C	from -25 to +55
	magnet in cold state with Un		
AC operated	closing	VA	26
	P.F.	2/4	0,8
	closed	VA	4
DC aparatad	P.F.	W	0,35
DC operated	closing closed	W	-
Coil voltage tolerances	cioseu	VV	0.85-1.1Un
duration of making and	hreaking		0.00 1.1011
	roltages of electromagnet from		
0.8 to 1.1 Un for each in c			
	ition of opening time and duration		
of electric zrc.	3		
AC operated	closing time	ms	12 to 21
	opening time	ms	9 to 18
	duration of electric arc	ms	10
Frequency of switching	operations		
without thermal reley	A.C.4	- B-	4000
utilizat	ion category AC1	s/h	1200
	AC2, AC3	s/h	1000
with thermal relay	AC4	s/h	250
with thermal relay		s/h	7/5
Resistivity to shocks	(square shock)	g/ms	and
resistivity to shooks	(square shook)	g/iiio	4,2/10
Short-circuit protection	of		7,2/10
contactors without overloa			
Main circuit			
With fuse links			
acc. To IEC 60947-4-1	Type of coord. "1" gl/gG	Α	20
DIN VDE 0660 Part 102	Type of coord. "2"	A	16
Sizes of connecting con	ductors		
for contact without therma	I relay		
main circuit	single-wire conductors	mm ²	1-2.5
	multi-wire conductir with cable shoe	mm ²	0.75-1.5
	Screw		M3.5
	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
	00.011 11000	Nm	0,8
	Tightening torque		-,-
Loadability of auxiliary o	0 0 1		
Loadability of auxiliary of Reated continuous curren	contacts	А	10
Reated continuous current	contacts t Ith; 35C	A A	10 6
	contacts t Ith; 35C		
Reated continuous current	contacts t lth; 35C e/AC15 for 24V	A	6
Reated continuous current	contacts t Ith; 35C e/AC15 for 24V 230V	A A	6 6 4
Reated continuous current	contacts t Ith; 35C e/AC15 for 24V 230V 400V	A A A	6 6

	110V 230V	A A	0,6 0,2
Load carrying capacity of the main conta		7.	0,2
rated continuus current ith			
AC1 utilization category		Α	20
rated operational current le/AC1		A	20
AC2 and AC3 utilization categories	for 230V	kW	3
(slip-ring and cage motors at 50Hz)	400V	kW	4
(enp mig en a rage mercer en com_)	690V	kW	4
AC4 utilization category (80.0	000 for CM1))	****	
(electrical endurance of contacts:120.000	,,,		
rated curent	le/AC4	Α	4
ratings of squirrel-cage motors at 50Hz	for 230V	kW	0,75
ramings or examine ongo menera ar come	400V	kW	1,5
	500V	kW	1,5
	690V	kVV	1.5
Loadability by direct current			.,0
DC1 utilization category, non-inductive load	s L/R1 ms		
rated operational current le	for 24V	Α	12
through one pole	48V	A	10
an ough one pois	110V	A	1,5
	220V	A	0,6
	440V	A	0,42
	600V	A	0,42
through three poles connected in series	for 24V	A	16
unough unee poles connected in series	48V	Ä	16
	110V	A	10
	220V	Ä	15
	440V	Ä	0,9
	600V	Ä	0,9
utilization category DC3 to DC5	600 V	A	0,7
series and shunt motors (L/R15 ms)			
rated operational current le	for 24V	A	7
through one pole	48V	A	4
an ough one pois	110V	A	1
	220V	A	-
	440V	A	_
	600V	A	
through three poles connected in series	for 24V	A	10
	48V	A	10
	110V	Ä	5
	220V	Ä	1,2
	440V	Ä	0,14
	600V	A	0,14
	000 V	A	0,14

Drilling plan (mm)







