

MODULAR CONTACTOR R20-..VM, 2-pole, 1TE, hum free

Technical Data acc. to IEC/EN60947-4-1, IEC/EN60947-5-1, VDE 0660

		Type	R20..
Main Contacts ^{1) 2) 3)}			
Rated insulation voltage U_i		V~	440 ⁴⁾
Rated operation voltage U_e		V~	440
Frequency of operations z	AC1, AC3	1/h	300
Mechanical life		$S \times 10^6$	1
Utilization category AC1 / AC7a Switching of resistive load			
Rated operational current $I_e (=I_{th})$	open	at 60°C	A 20
Contact life		$S \times 10^6$	0,1
Minimum switch voltage		V/mA	24/100
Short time current	10s-current	A	72
Power loss per pole at $I_e/AC1$		W	2
Utilization category AC2 und AC3 / AC7b Switching of three-phase motors			
Rated operational current I_e		A	-
Rated operational power	220V	kW	-
50-60Hz	230-240V	kW	-
	380-415V	kW	-
Contact life		$S \times 10^6$	0,15
Power consumption of coils			
AC and DC operated		W	2-3
Operation noise acc. to EN ISO 3744			
	from front, distance 0,5m	dB	0
Operation range of coils			
in multiplies of control voltage U_s		-40°C bis +40°C	0,85-1,1
Maximum ambient temperature			
		open	°C -40 bis +60
		enclosed	°C -40 bis +40
Storage		°C	-50 bis +90
Short circuit protection			
Max. fuse Coordination-type „1“gL (gG)	gL (gG)	A	35
Rated short circuit current	„r“	kA	3
	„Iq“	kA	3
Switching time at control voltage $U_s \pm 10\%$			
	make time	ms	7-16
	release time	ms	6-12
	arc duration	ms	10-15
Cable cross-sections			
Main connector	solid or stranded	mm ²	1,5-10
	flexible	mm ²	1,5-6
	flexible with multicore cable end	mm ²	1,5-6
Clamps per pole			1
Magnetic coil	solid or stranded	mm ²	0,75-2,5
	flexible	mm ²	0,5-2,5
	flexible with multicore cable end	mm ²	0,5-1,5
Clamps per pole			1



Symbol picture

Wiring diagram

R20-20VM	
R20-02VM	
R20-11VM	
R20-10VM	

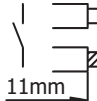
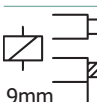
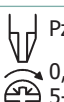
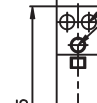
Weight

0,12kg

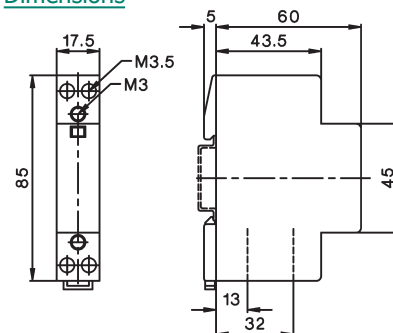
Coil voltage U_s

R20-.. 24VM	24V 50/60Hz, 24V=DC
R20-.. 230VM	220-240V 50/60Hz, 220V=DC

Cable cross-sections, screw driver, tightening torque

	1,5-10mm ²		Pz1 (M3,5)
	1,5-6mm ²		Pz1 (M3)
	16-8AWG		0,8-1,4Nm 7-12lb.inch
	0,75-2,5mm ²		
	0,5-2,5mm ²		
	20-14AWG		0,6-1,2Nm 5-11lb.inch

Dimensions



- 1) Rated frequency 50/60Hz
- 2) Max. occ switching overvoltage < 4kV
- 3) Duty cycle: 100%
- 4) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industrie): Uimp = 4kV

Technical data are subject to change without notice

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