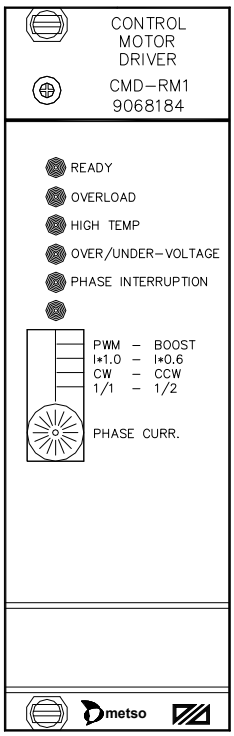
dametric

CMD – RM1

VAL0122825 / SKC9068184



CONTROL MOTOR DRIVER FOR THE RMS/CMS SYSTEM

USERS MANUAL

Valmet

Content

1 DESCRIPTION OF OPERATION

The CMD-RM1 Control Motor Drivers is used in combination with the Control Motor Interface board (CMI-RM1 or CMI-01).
Together they will form an interface for controlling a 5-phase electrical stepping motor.
The CMD-RM1 generates drive pulses to the motor from the input pulses from the Interface.
The CMD-RM1 is used with the VRDM-5910/50 and 5913/50 Berger&Lahr motor.

2 TECHNICAL SPECIFICATION

Article no:	CMD-RM1 / VAL0122825 / SKC9068184	
Power supply:	Nominal:	32 Vdc ±10%
	Minimum:	24 Vdc
	Maximum:	35 Vdc
Current consumption:	4.5 A, max	(6A max if the current boost is used)
Maximum cable length:	1 m. (between screw connector and power supply unit)	
Board dimension:	Length:	160 mm
	Width:	100 mm
	Height:	40 mm (8 TE)
Panel adjustments:	Phase current	
	PWM/Boost current control	
	Current reduction	
	Direction of rotation	
	Step angle	
Panel output indicators:	Readiness	
	Short circuit, overload	
	Excessive temperature	
	Under/Over-voltage	
	Phase interruption	
Digital input:	Pulse input	
	Direction	
Relay output:	Readiness	
RMS-unit interface:	No.	

3 SETTINGS

Dip-switches in the front:		Left (off)	Right (on)
3.1	PWM/ Boost-current control	PWM	Boost (not used)
3.2	Current reduction	no reduction	40% reduction
3.3	Direction of rotation	cw	ccw
3.4	Step angle	1/1 step	1/2 step

default setting

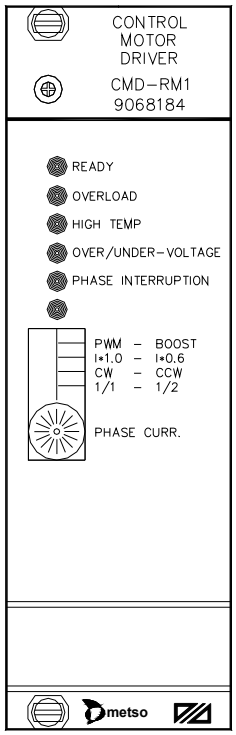
Front panel rotary switch:

3.5	Phase current: (A)	
	0=0.55	1=0.70
	2=0.85	3=1.00
	4=1.15	5=1.30
	6=1.45	7=1.60
	8=1.75	9=1.90
	A=2.05	B=2.20
	C=2.35	D=2.50
	E=2.65	F=2.80

Default setting: A = 2.05 A.

Alternate settings:

VRDM 5910/50	A = 2.05 A
VRDM 5913/50	C = 2.35 A



4 CONTACT

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