

SMG Systems

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DIDDE
Rotatives offset



IN LOG
Finition Post Press



SPIRAVEYOR
Tours de séchage



EASYLINE
Matériel de Reliure



METRIS
Convoyeurs Stackers

DOCUMENTATION TECHNIQUE

Type : Carte 115V pour moteur DC
Modèle : RIS 025 343
Marque : RIMA
Doc version : (2005)








Carte variation de vitesse ref RIS 025 343 :

1) Caractéristiques :

- a. Tension : 0 à 90Vdc
- b. Courant : 0 à 9A.

2) Réglage initial de la position des potentiomètres de la carte :

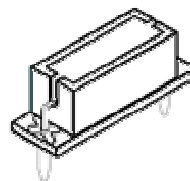
MIN (minimum speed)	15%		CL (current limit/torque)	50%	
MAX (maximum speed)	60%		ACCEL (acceleration start)	50%	
IR (IR Compensation)	25%				

NB :

La position de chaque potentiomètre est reportée sur le schéma électrique RIMA.

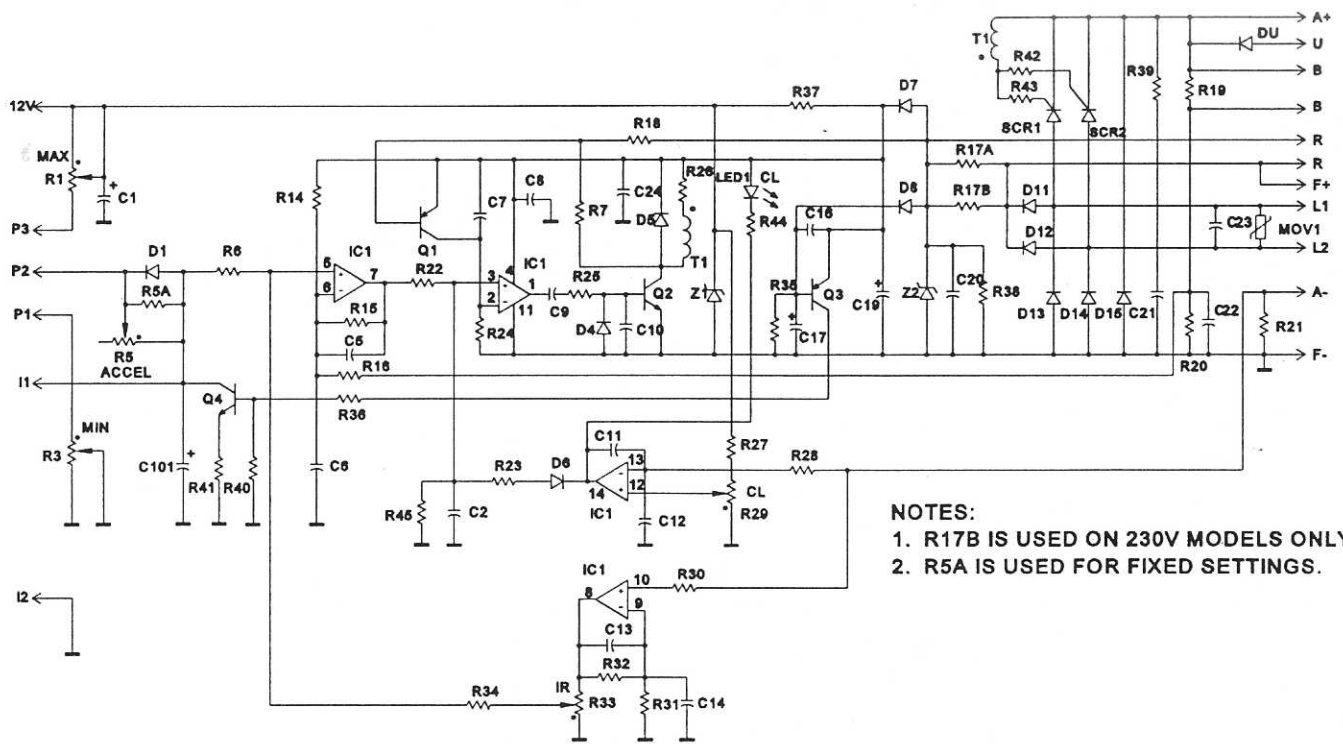
3) Choix de la résistance-shunt :

NB : ne pas mettre la carte en service sans s'assurer que le bon shunt est en place !



Ref Moteur	I max	Puissance	Ref Shunt	Valeur
	1,3 Amps	90W (1/8HP)	MG 212 407	0,1 Ω
	2,5 Amps	180W (1/4HP)	MG 212 406	0,05 Ω
	3,3 Amps	245W (1/3HP)	MG 212 405	0,035 Ω
RIS 020 106	5,0 Amps	365W (1/2HP)	MG 212 404	0,025 Ω
RIS 030 101	7,5 Amps	550W (3/4HP)	MG 212 403	0,015 Ω
	10 Amps	736W (1HP)	MG 212 402	0,01 Ω

Schéma



- NOTES:**
1. R17B IS USED ON 230V MODELS ONLY.
 2. R5A IS USED FOR FIXED SETTINGS.

Nomenclature

Models	Ckt Ref	Specification	MFG. Type	Description
ALL MODELS	C1	1µF-50V-20%	Electrolytic-NP	Capacitor
	C2	1000pF-50V-10%	Multilayer Ceramic	Capacitor
	C5,7,13	0.1µF-50V-20%	Multilayer Ceramic	Capacitor
	C6,8,14	0.01µF-50V-30%	Ceramic Tubular	Capacitor
	C9	0.01µF-50V-20%	Multilayer Ceramic	Capacitor
	C10	0.022µF-50V-20%	Ceramic Tubular	Capacitor
	C11	0.033µF-50V-20%	Multilayer Ceramic	Capacitor
	C12	0.047µF-50V-20%	Multilayer Ceramic	Capacitor
	C16	0.47µF-50V-20%	Electrolytic-NP	Capacitor
	C17	2.2µF-50V-20%	Electrolytic-NP	Capacitor
	C19	100µF-35V-20%	Electrolytic	Capacitor
	C20	0.022µF-50V-20%	Multilayer Ceramic	Capacitor
	C22	0.1µF-50V-20%	Multilayer Ceramic	Capacitor
	C24	0.01µF-50V-30%	Ceramic Tubular	Capacitor
	C101	22µF-35V-20%	Electrolytic	Capacitor
	D1,4-8	1A-600PIV	1N4005GP	Diode
	D11,12	1.5A-1000PIV	1N5399GP	Diode
	D15	20A-400PIV	D4020L	Power Diode
	DU	5A-500PIV	G3J	Diode
	IC1	-----	LM324N	Quad Op Amp
	Q1,3	600mA-40V	2N4403	Transistor
	Q2,4	600mA-40V	2N4401	Transistor
	R1	10K-0.33W-20%	Cermet (PTC10YV)	MAX Trimpot
	R2	5K-0.5W-30%	A60212	Main Pot
	R3	2.5K-0.33W-20%	Cermet (PTC10YV)	MIN Trimpot
	R5	100K-0.33W-20%	Cermet (PTC10YV)	Accel Trimpot
	R6,23,38	10K-0.25W-5%	Carbon Film	Resistor
	R7	15K-0.25W-5%	Carbon Film	Resistor
	R14	4.7M-0.25W-5%	Carbon Film	Resistor
	R15	3.3M-0.25W-5%	Carbon Film	Resistor
	R16,28,30	47K-0.25W-5%	Carbon Film	Resistor
	R18,35,36	22K-0.25W-5%	Carbon Film	Resistor
	R20	3.9K-0.25W-5%	Carbon Film	Resistor
	R21	0.006-1Ω-5W-5%	Wire Wound	PHR
	R22,34	100K-0.25W-5%	Carbon Film	Resistor
	R24	47K-0.25W-5%	Carbon Film	Resistor
	R25	4.7K-0.25W-5%	Carbon Film	Resistor
	R26,42,43	47Ω-0.25W-5%	Carbon Film	Resistor
	R27	82K-0.25W-5%	Carbon Film	Resistor
	R29	2.5K-0.33W-20%	Cermet (PTC10YV)	CL Trimpot
	R31	47K-0.25W-5%	Carbon Film	Resistor
R32	2.2M-0.25W-5%	Carbon Film	Resistor	
R33	10K-0.33W-20%	Cermet (PTC10YV)	IR Trimpot	
R37	1.5K-0.25W-5%	Carbon Film	Resistor	
R39	1K-0.25W-5%	Flameproof	Snubber Res.	
R40	3.3K-0.25W-5%	Carbon Film	Resistor	
R41	2Ω-0.25W-5%	Carbon Comp	Resistor	

Models	Ckt Ref	Specification	MFG. Type	Description
ALL MODELS	R45	1.5M-0.25W-5%	Carbon Film	Resistor
	T1	1:1	-----	Pulse Trans.
	Z1	12V-1W-5%	1N4742A	Zener Diode
	Z2	22V-1W-5%	1N4748A	Zener Diode
ALL 115V INPUT	C21	0.1µF-250V-20%	Metal Film	Snubber Cap.
	C23	0.1µF-250V-20%	Metal Film	Line Cap.
	MOV1	150VRMS	V150LA10A	Trans. Sup.
	R17A	5.6K-3W/70°C-5%	-----	Resistor
ALL 230V INPUT	R19	82K-0.25W-5%	Carbon Film	Resistor
	C21	0.1µF-400V-20%	Metal Film	Snubber Cap.
	C23	0.047µF-250VAC	X Type	Line Cap.
	MOV1	275VRMS	V275LA20A	Trans. Sup.
KBIC-120	R17B	15K-5W/70°C-5%	-----	Resistor
	R17B	100K-1W/70°C-5%	-----	Resistor
	D13,14	20A-400PIV	D4020L	Power Diode
	SCR1,2	20A-400V	S4020L	Power SCR
KBIC-125	D13,14	25A-400PIV	D4025L	Power Diode
	SCR1,2	25A-400V	S4025L	Power SCR
	D13,14	20A-800PIV	D8020L	Power Diode
	R19	150K-0.25W-5%	Carbon Film	Resistor
KBIC-240	SCR1,2	20A-800V	S8020L	Power SCR
	D13,14	25A-800PIV	D8025L	Power Diode
	R19	150K-0.25W-5%	Carbon Film	Resistor
	SCR1,2	25A-800V	S8025L	Power SCR
KBIC-240D	D13,14	20A-800PIV	D8020L	Power Diode
	R19	110K-0.25W-5%	Carbon Film	Resistor
	SCR1,2	20A-800V	S8020L	Power SCR
	D13,14	20A-800PIV	D8020L	Power Diode
KBIC-240DS	R19	82K-0.25W-5%	Carbon Film	Resistor
	SCR1,2	20A-800V	S8020L	Power SCR