

# FEEDBACK FEATURES

## E1 TTL ENCODER

Motor size		TC 40 - 60 - 80	TC 100 - T115 - T142 - T180
Nominal Voltage	V	5±5%	5±5%
Nominal current	mA	200	200
Max Frequency	Khz	200	200
Electronic type		LINE DRIVER AM 26 LS31	LINE DRIVER AM 26 LS31
Zero impulse		ONE AT A LAP	ONE AT A LAP
N° of pulses revolution	ppr	2000	2000
Resolution	cpr	8000	8000
N° of commutation signal		3 DIFFERENTIAL	3 DIFFERENTIAL
System accuracy	arc sec	± 50	± 50
Rotor inertia	Kg cm <sup>2</sup>	0.01	0.065

Please note: for all motors size **TC 40** - all motors size **TC 60** and for model **TC100 8 15** with encoder TTL the maximum theoretical acceleration is 80.000 rad/s<sup>2</sup>

## R1 RESOLVER 2 poles

Motor size		TC40	TC60 - TC80	TC100 - T115 - T142 - T180
Nominal Voltage	Vrms	7±5%	7±5%	7±5%
Nominal current	mA	50	50	50
Phase shift		+5°	+3°	-5°
Minimum sin amplitude	mVrms	20	20	20
Frequency	kHz	10	10	10
Poles number		2	2	2
Trasformer ratio		0.5 ± 5%	0.5 ± 5%	0.5 ± 5%
Input impedance	ohm	160	130 + j280	110+j140
Output impedance	ohm	130	425 + j755	130+j240
System accuracy		± 10'	± 10'	± 10'
Rotor inertia	Kg cm <sup>2</sup>	0.006	0.03	0.1

## A1 ABSOLUTE MULTITURN ENCODER

Motor size		TC40 - TC60 - TC80 - TC100 - T115 - T142 - T180
Nominal Voltage	V	7 ÷ 12
Nominal current	mA	60
Max frequency fon Sin Cos signal	Khz	65
Interface type		Hiperface
N° absolute singleturn steps		4096 (12 Bits)
N° absolute multiturn steps		4096 (12 Bits)
N° of sin/cos periods per revolution		128
Error limits for evaluating the sin/cos periods	arc sec	± 320
Rotor inertia	Kg cm <sup>2</sup>	0.0045