

Intelligent Tension Control Unit

ITC for LB303

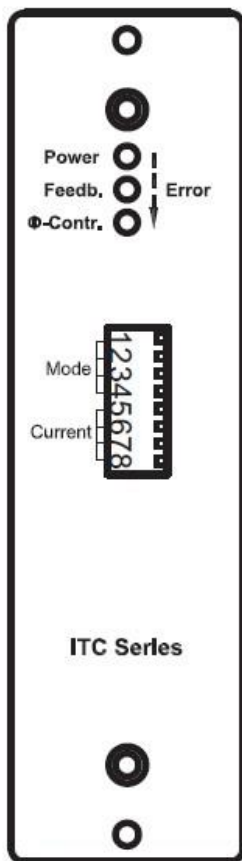
This Intelligent Tension Controller is designed for optimizing the performance of our own hysteresis brakes and clutches to work in different operating modes as required by varies of applications.

1. Technical details:

Voltage for hysteresis brakes and clutches at nominal torque and coil temperature of 120°C	30 VDC
Allowed Residual Ripple	1.5V
Operating Voltage Range	24-36 VDC
Open Circuit Power Consumption	< 150 mA
Maximum Input Current (Depending on unit size)	2.8 A
Voltage Output	10V±0.8V, 20 mA (Ra min=500Ω)
Input Resistance	RE≥3.3kΩ
Ambient Temperature	0 to 50°C
Storage Temperature	-30 to +70°C
Humidity	DIN IEC68, part 2-30
Safety Class According To DIN 40 050	IP 30
Rack	92mm Plug-In Module
Connection	18-pin terminal
Weight	0.43 kg

2. LED Indicators:

Name	Function
LED (1) "Power"	Power on, to show ITC is ready
LED (2) "Feedback"	Closed-loop working mode (DIP Switch 1,2,3,4 is on)
LED (3) " Φ Control"	<p>Φ Arm Position Control, DIP Switch 3 = "0" and 4 = "1"</p> <p>Φ Calculation Control, DIP Switch 3 = "1" and "4 = "0"</p> <p>LED "Φ-Control" flashes, while the setting process is not executed under the two mentioned modes.</p> <p>Otherwise, LED (3) keeps On.</p>
Error:	3 LEDs flashes alternately, error occurs
Mode:	See: Working mode table
Current:	See: Working mode table



3. Foot pins definition:

Pin	Function / definition	Pin	Function / definition
1	Negative power supply	2	Negative power supply
3	No connection / Reserved	4	No connection / Reserved
5	Negative power supply	6	Negative output (To brake)
7	Voltage output 10V +/- 0.8VDC, Max current 20mA; Loading resistance Ra min=500 ohm	8	Voltage input, rated (0 to +10v) Input resistance Ri = 200k ohm; Remarks: if pin 5 is connected to external GND, the external analog voltage input must be less than 10V
9	Voltage input, rated (0 to +10v) Input resistance Ri = 200k ohm; Remarks: if pin 5 is connected to external GND, the external analog voltage input must be less than 10V	10	No connection / Reserved
11	No connection / Reserved	12	No connection / Reserved
13	No connection / Reserved	14	Short-circuit with negative terminal, controller output current = 0
15	Short-circuit with negative terminal, controller output current = maximum	16	Positive output (To brake)
17	Power supply +24V, Maximum current 2.8A (Depending on loading)	18	Power supply +24V, Maximum current 2.8A (Depending on loading)

4. Working Mode

Working Mode								
DIP Switch	1	2	3	4	5	6	7	8
Open Loop Control	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Closed Loop Control	ON	ON	ON	ON	ON	OFF	ON	ON

5. Connection

