



AC Voltage Input Module

401026

Product Overview

The AC Voltage Input Module provides 4 isolated voltage channels for TESLA Power System Recorder. These voltage modules provide conditioning and isolation between the main PT/VT secondaries and the inputs to the recorder.

Output from the module is scaled to connect directly to the TESLA's analog input terminals.



Ordering Options

The modules are available in CE/UKCA compliant metal casing with following mounting options:

- DIN/Surface mount - DIN #1
- DIN mount - DIN #2
- Surface mount
- Rack mount



10 Year
WARRANTY

Specifications

The nominal signal level is 69 V rms ($120/\sqrt{3}$) with a full-scale 2x over-range capability that can be sustained continuously. Due to impedance matching requirements, module channels cannot be connected to more than one TESLA input channel. Modules can be located up to 1220 meters (4000 feet) from the recorder. TESLA analog inputs are measured differentially. Analog connections made outside of the panel in which the TESLA is located must use shielded twisted-pair cable. Belden 9388, is an example of an acceptable cable that can be used. The ground cable should be attached only at the recorder end.

Apply the nominal phase to ground voltage (V_n) - 69 Vrms - across one input to the module with a dot on the odd numbered input terminals indicating an instantaneous polarity reference.

Module Rating

The module ratings are as given below in Table 1: Module Rating.

Table 1: Module Rating		
Mounting	Dimensions L x W x H	Rating
DIN/Surface Mount	152.6 x 137.2 x 80.8 mm	Nominal V_n : 69 Vrms Full Scale/Continuous: $2 \times V_n = 138$ Vrms Thermal withstand: $4 \times V_n = 276$ Vrms for 3 seconds, $3 \times V_n = 207$ Vrms for 10 seconds Burden: 0.03VA @ V_n Ratio (1 k Ω load) 138 Vrms: 1.675 Vrms
DIN Mount	152.6 x 137.2 x 80.8 mm	
Surface Mount	149.6 x 137.2 x 80.8 mm	
Rack Mount	149.6 x 137.2 x 81.3 mm	

DIN/Surface Mount Voltage Module (DIN#1)

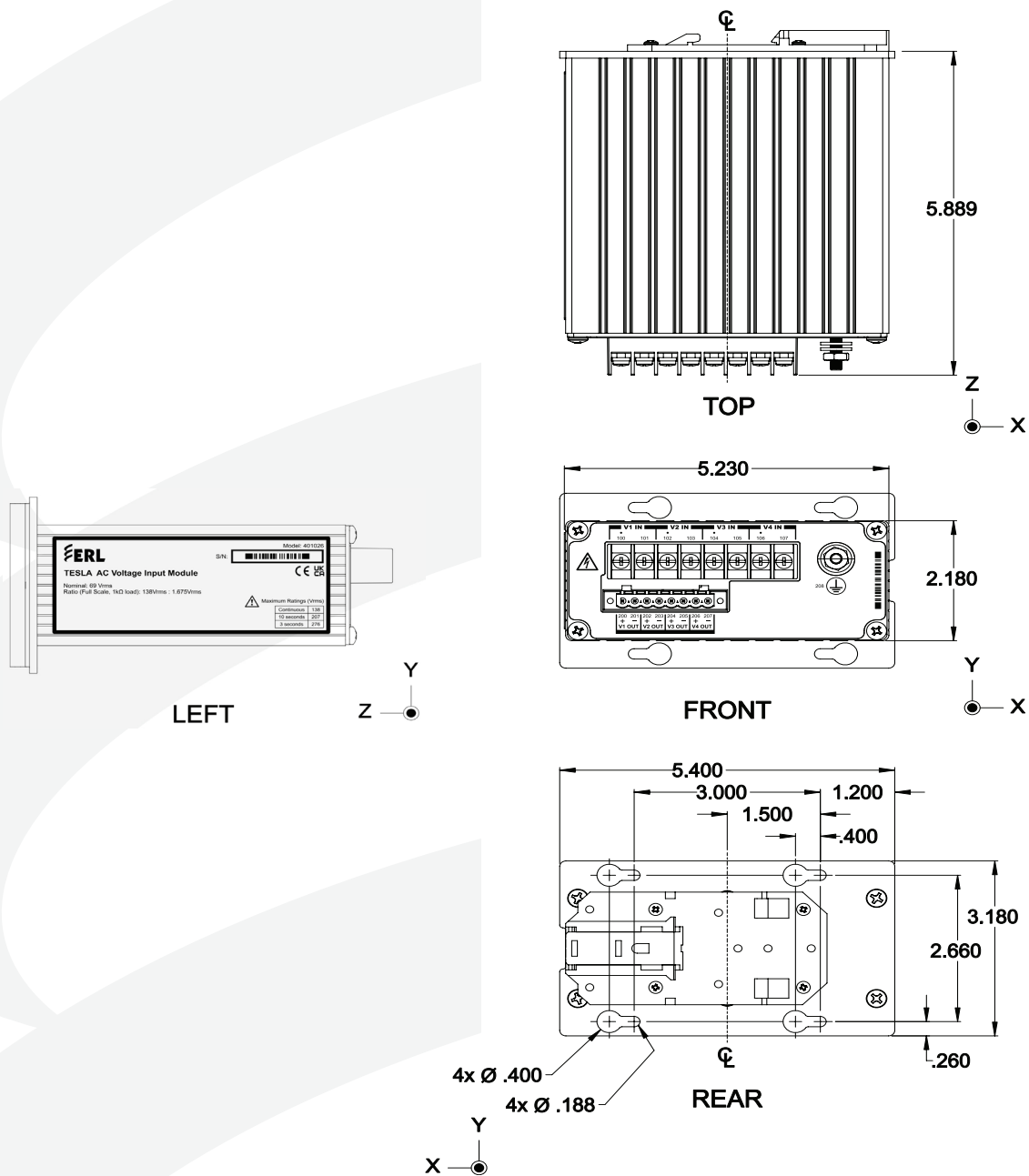


Figure 2: AC Voltage Input Module, DIN/Surface Mount
(dimensions are in inches)

DIN Mount Voltage Module (DIN#2)

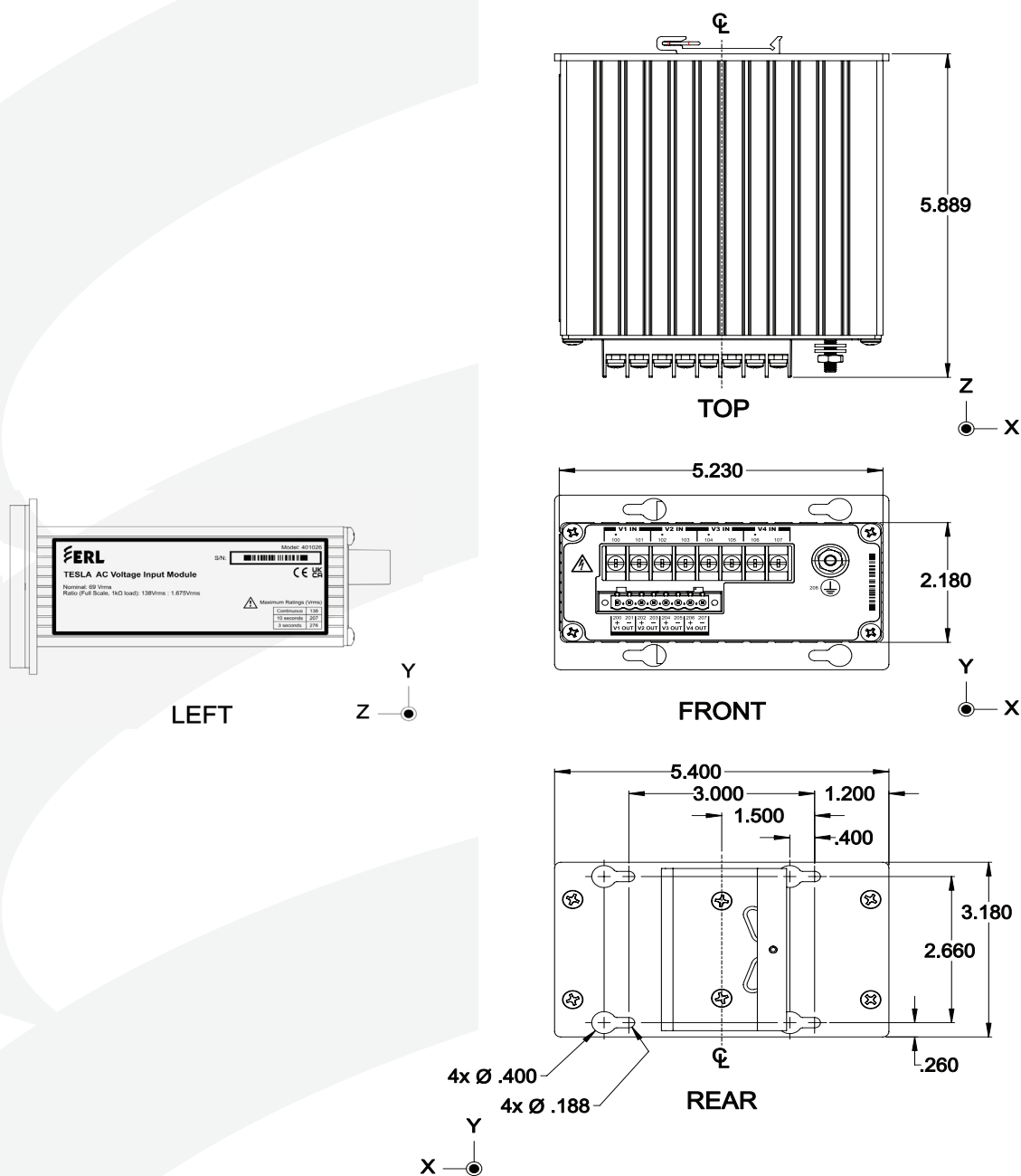


Figure 3: AC Voltage Input Module, DIN Mount
(dimensions are in inches)

Surface Mount Voltage Module

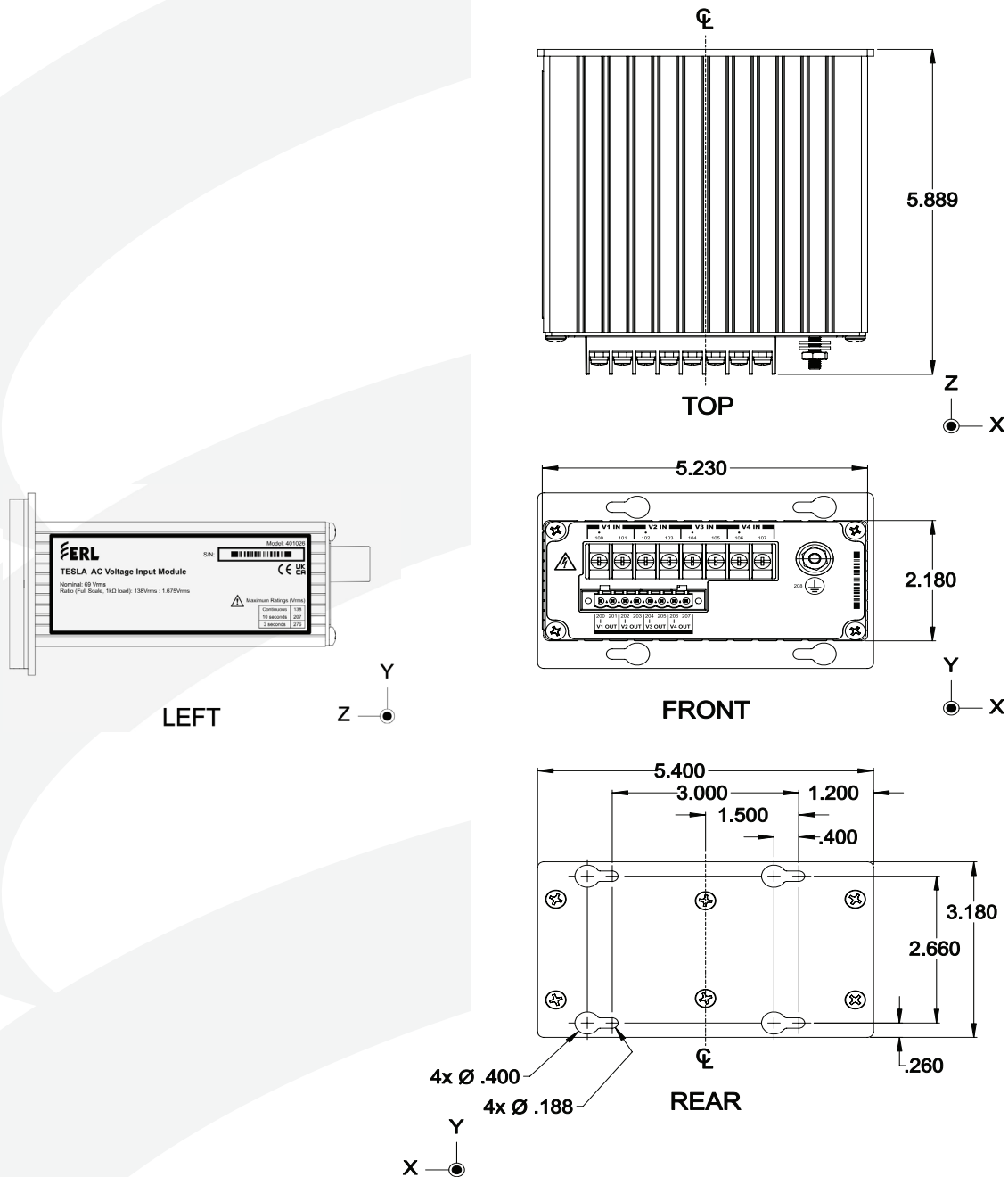


Figure 4: AC Voltage Input Module, Surface Mount
(dimensions are in inches)

Rack Mount Voltage Module

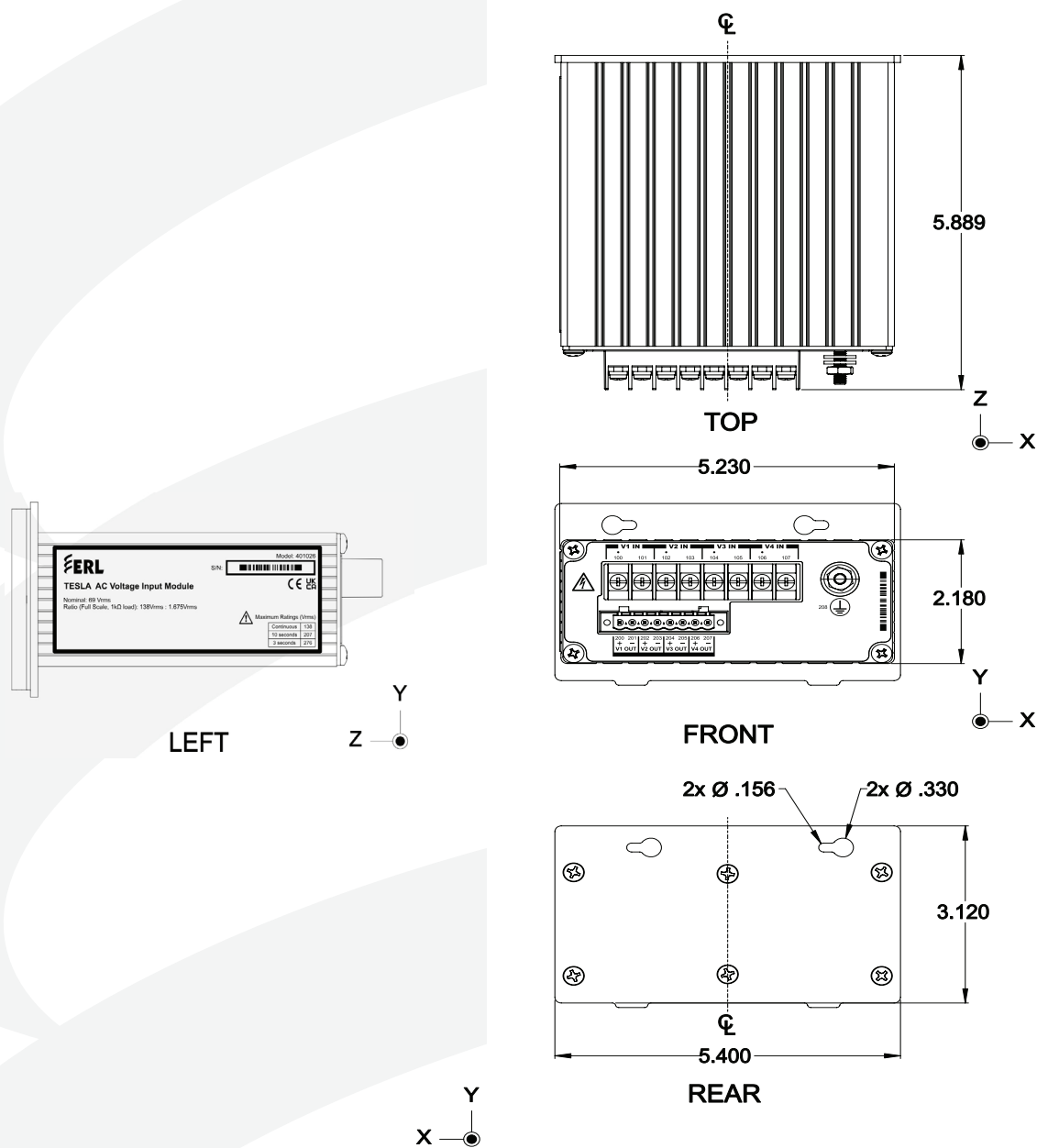


Figure 5: AC Voltage Input Module, Rack Mount
(dimensions are in inches)

Rack Mount Plate

The rack mount plate (Figure 6), allows up to 3 modules to be installed in 2U of a 19" rack. The rack mount style modules are ordered separately from the rack mount plate and the modules must be installed into the plate by the customer. Figure 6 shows how to install the modules into the plate. Use 4 #10 or M6 screws to mount the rack mount plate into the 19 inch rack.

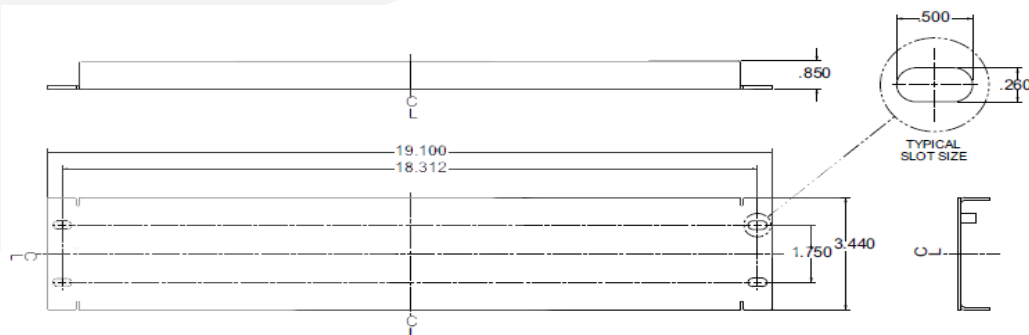


Figure 6: 2U Module Rack Mount Plate
(dimensions are in inches)

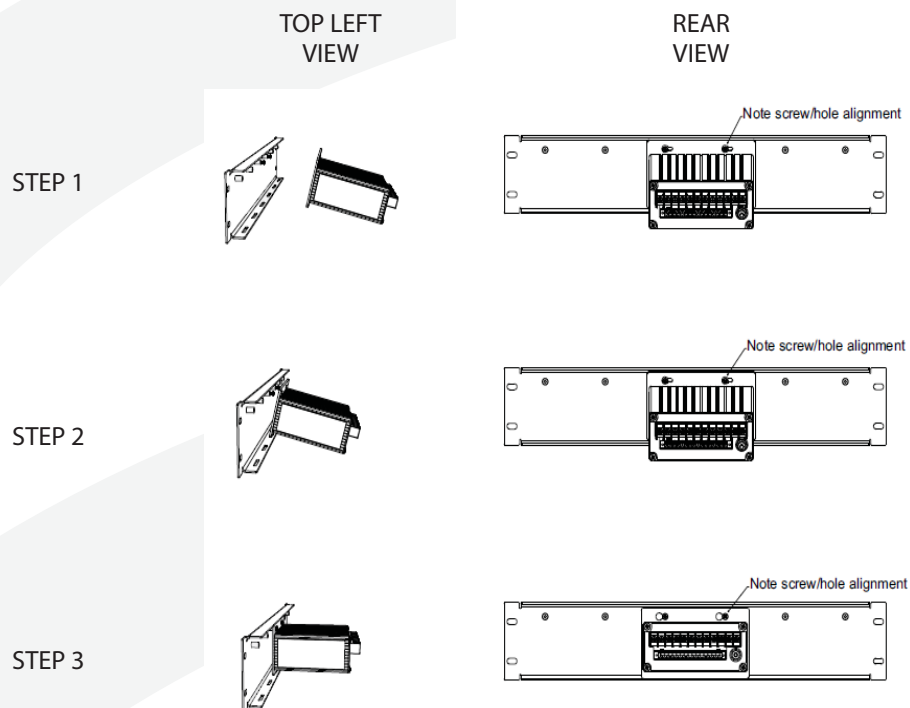


Figure 7: Installing Modules into Rack Mount Plate
(dimensions are in inches)

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