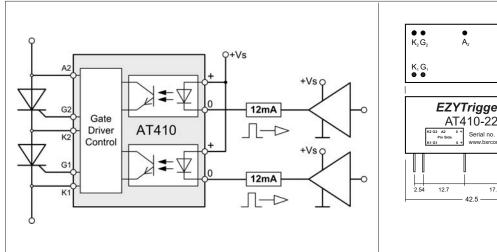
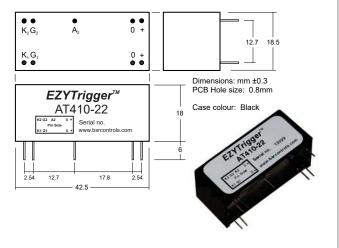


Active trigger units for firing Power Thyristors

## **Applications:**

- Controlled Rectifiers
- AC Controllers
- o DC Motor Control





## **Absolute Maximum Ratings**

EZYTrigger Type

Parameter	Symbol	AT410 - 12	AT410 – 22	
Peak voltage – positive and negative	Vp	1200 V	2200 V	
Nominal mains voltage	Vm	400 V	690 V	
Continuous DC voltage	V=	400 V	690 V	
Turn-on delay for gate current >1A	tgd	5 μs	5 μs	
Input-Output Isolation	Vi	6000Vrms 50Hz 1min VDE0884		
Input-Output transient immunity	(dv/dt)c	5000 V/μs		
Device transient immunity	(dv/dt)d	2000		
Ambient temperature range	Та	-20°C to +85°C		

## Technical Data at 25°C

200mA gate current threshold			Vgtl	10 V	16 V	
1.8A gate current threshold			Vgth	24 V	36 V	
Gate current rise time ⇒ anode voltage	$\Rightarrow$	100V	(di/dt)g	2.5 A/μs	1.2 A/μs	
	$\Rightarrow$	200V	(di/dt)g	3 A/μs	2 A/μs	
	$\Rightarrow$	400V	(di/dt)g	4 A/μs	2.5 A/μs	
	$\Rightarrow$	800V	(di/dt)g	6 A/μs	3 A/μs	
	$\Rightarrow$	1200V	(di/dt)g	-	4 A/μs	
Peak gate current			lp	1.8 A	1.8 A	
Anode-cathoden current at peak voltage Vp			In	4.4 mA	5.1 mA	
Maximum off-state gate current			lo	2 μΑ	2 μΑ	
Minimum control current			lcm	7 mA	7 mA	
Recommended control current			lc	12 mA	12 mA	
Control input voltage drop at 12mA gate current		Vin	Typ 1.2 < 1.5V	Typ 1.2 < 1.5V		
Maximum reverse control input voltage		Vinr	6 V	6 V		
Turn-on delay time at I <sub>control</sub> = 12mA		tdi	25 μs	25 μs		

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