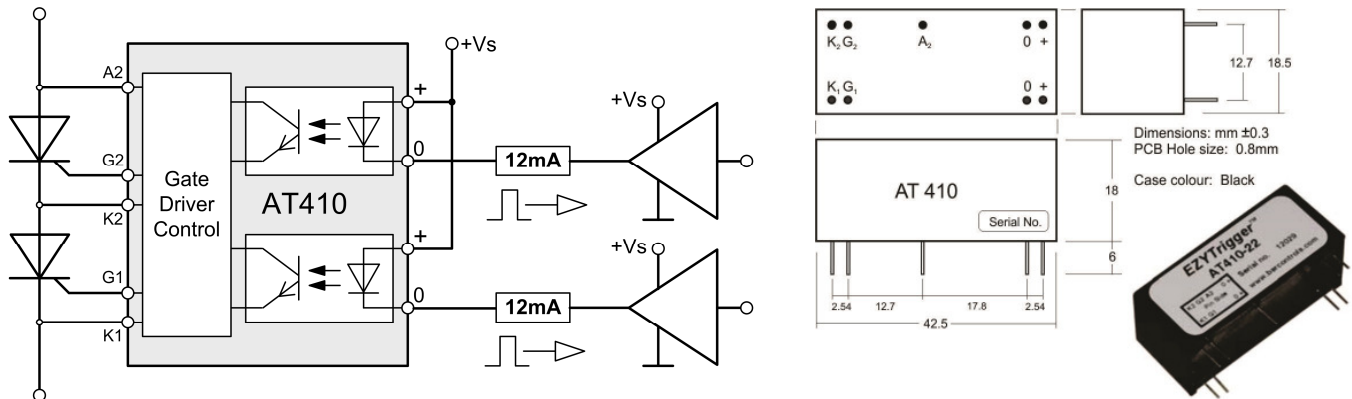


AT 410

Line voltage 100 – 690V_{rms}

Applications:

- Controlled Rectifiers
- AC Controllers
- DC Motor Control



Absolute Maximum Ratings

EZYTrigger Type

Parameter	Symbol	AT410 - 12	AT410 – 22
Peak voltage – positive and negative	V _p	1200 V	2200 V
Nominal mains voltage	V _m	400 V	690 V
Continuous DC voltage	V ₌	400 V	690 V
Turn-on delay for gate current >1A	t _{gd}	5 µs	5 µs
Input-Output Isolation	V _i	6000Vrms 50Hz 1min VDE0884	
Input-Output transient immunity	(dv/dt) _c	5000 V/µs	
Device transient immunity	(dv/dt) _d	2000 V/µs	
Ambient temperature range	T _a	-20°C to +85°C	

Technical Data at 25°C

200mA gate current threshold	V _{gtl}	10 V	16 V
1.8A gate current threshold	V _{gth}	24 V	36 V
Gate current rise time ⇒ anode voltage	⇒ 100V (di/dt) _g	2.5 A/µs	1.2 A/µs
	⇒ 200V (di/dt) _g	3 A/µs	2 A/µs
	⇒ 400V (di/dt) _g	4 A/µs	2.5 A/µs
	⇒ 800V (di/dt) _g	6 A/µs	3 A/µs
	⇒ 1200V (di/dt) _g	-	4 A/µs
Peak gate current	I _p	1.8 A	1.8 A
Anode-cathode current at peak voltage V _p	I _n	4.4 mA	5.1 mA
Maximum off-state gate current	I _o	2 µA	2 µA
Minimum control current	I _{cm}	7 mA	7 mA
Recommended control current	I _c	12 mA	12 mA
Control input voltage drop at 12mA gate current	V _{in}	Typ 1.2 < 1.5V	Typ 1.2 < 1.5V
Maximum reverse control input voltage	V _{inr}	6 V	6 V
Turn-on delay time at I _{control} = 12mA	t _{di}	25 µs	25 µs