

Power devices ignitrons for welding applications book 2 part 3

Type No.	Description	Single Phase Control (Welder Duty) ^a			Three Phase Welder Service		Ignitor Requirements	
		Max. Demand (kVA)	Max. Average Current (A)	*Max. Averaging Time (s)	Max. v_a (pk) (V)	Max. i_a (pk) (A)	$v_{ign}(pk)$ (V)	$i_{ign}(pk)$ (A)
ZX1051	Water-cooled Ignitrons primarily intended for resistance welding and similar a.c. control applications Thermostats can be mounted to provide protection against overheating or to economise in the water-flow	200	56	11.8	1200	600	150	12
		600	30.2	11.8	1500	480		
ZX1052		400	140	9.4	—	—	150	12
		1200	75.6	9.4	—	—		
ZX1053		800	355	7.3	600	4000	150	12
		2400	192	7.3	1500	2400		
ZX1061	Upated 'B' size tube with physical dimensions as ZX1051 Low arc voltage	400	70	15.8	—	—	150	12
		1200	38	15.8	—	—		
ZX1062	Upated 'C' size tube with physical dimensions as ZX1052 Low arc voltage	760	180	13.8	—	—	150	12
		2280	110	13.8	—	—		

^a Two tubes connected in inverse parallel on 600V supply.

* At 380V r.m.s.

inert gas thyratrons

Type No.	Description	$I_k(av)$ max. (A)	Max. Peak Anode Voltage (kV)		V_f or V_h (V)	I_f or I_h (A)	Base
			Forward	Inverse			
EN92 (CV3512)	Tetrode	0.025	0.5	0.5	6.3	0.15	B7G
EN91 (CV797) § M8204 (CV4018)	Tetrode	0.1	0.65	1.3	6.3	0.6	B7G
EN32 (CV2253)	Tetrode	0.3	0.65	1.3	6.3	0.95	Octal
ZT1011 XR1-1600A (CV5234)	Triode	2.5	1.5	1.5	2.5	8.5	B4G
† XR1-3200A	Triode	3.2	1.5	1.5	2.5	12	B4D
† XR1-6400A	Triode	6.4	1.5	1.5	2.5	21	B4D

† Suffix A to thyratron type numbers indicates the disc seal development of the standard tube. Electrical characteristics are identical.
§ This is a Special Quality Type.