

KH Controls, Inc.

420 North Liberty Street
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Longwall Advantage Pty. Ltd.

Gateway Estate, 2/19 Accolade Avenue
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AS ISS1 POWER SOURCE

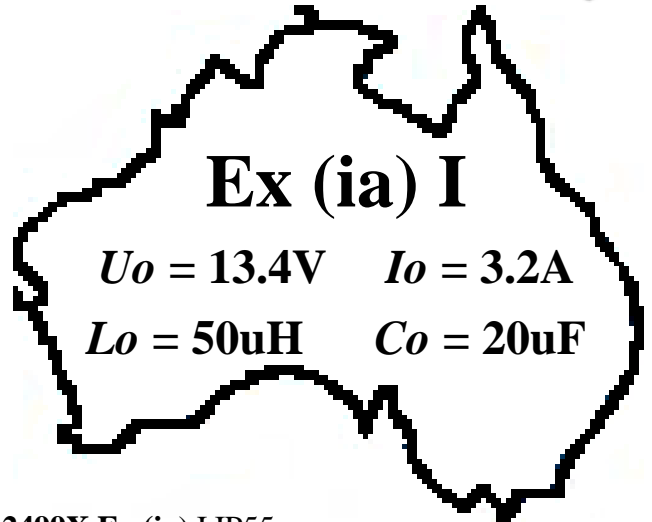
40 WATTS, INTRINSICALLY SAFE
3.1 Amperes at 12.9 Volts DC

APPLICATIONS:

Electrohydraulic Control Systems
Longwall Lighting Systems
Mining Machinery

INTRINSIC SAFETY:

Certificate of Conformity QLD SIMTARS AUS 2499X Ex (ia) I IP55
Approval NSW **MDA Ex ia 10197**
Complying with the Requirements of **AS 2380.1** and **AS 2380.7**
Optional **Ex d** Flameproof Enclosure Complying with the Requirements of **AS 2380.2**



FEATURES:

Input Voltage
110 Volts AC
Single or Three Phase

Output Voltage
Up to 13.4 Volts DC

Output Current
Up to 3.2 Amperes

Low Electrical Noise

Auto Reset
1 Second Off Time

Rugged Design

Reliability

BENEFITS:

Very Resistant to AC Line Voltage Dips
i.e. Face Conveyor Start Up
No Tap Changes Required -Balanced 3 Phase Load
Inrush Limited to 1 x FLC

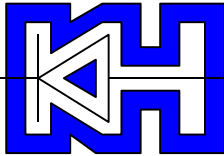
Precision Regulation for 80-150 Volts AC Input
Precision Regulation for 0-3.1 Ampere Loads
No Brown Out Condition
Controlled Voltage Rise 1V per millisecond

Larger Group Sizes with Less Power Supplies
Higher Peak Power Operating Modes
More Solenoids in Operation Simultaneously

Compatible With Longwall Control Systems
No Interference with other AC Line Equipment
No Interference with I.S. Connected Equipment
No Interference with Radio Equipment
No Nuisance Trips

No Manual Operator Reset Required

Resistant to Dirt, Water, Vibration, Impact
IP55 Rated Enclosure
Field Proven Performance and Reliability



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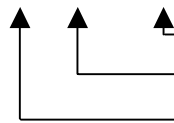


AS ISS1 POWER SOURCE

Excellent Reliability in Longwall Service

PART NUMBERS AND RATINGS:

ISS1-UU.U-I.II-ASn



n is a sequentially assigned version number

Output Current Parameter, *I* expressed as *I.II*

Output Voltage Parameter, *U* expressed as *UU.U*

For example: ISS1-13.4-3.20-AS1

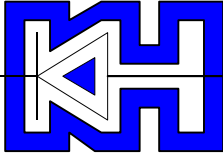
ENTITY PARAMETER TABLE				GROUP I	
APPARATUS	<i>Um</i> (V)	<i>Uo</i> (V)	<i>Io</i> (A)	<i>Co</i> (uF)	<i>Lo</i> (uH)
Power Supply Type ISS1 - with IL1	125	13.4*	3.2*	19.5	50
Power Supply Type ISS1 - without IL1	125	13.4*	3.2*	20.0	50

*Entity Parameters are maximum values. Lower values of *Uo* and *Io* may be assigned.

The values of *Co* and *Lo* remain as stated in the table above.

ACCESSORIES:

Ex d I Flameproof Enclosure
Model IL1 Inrush Limiter
IP67 Connectors
Wiring Kits



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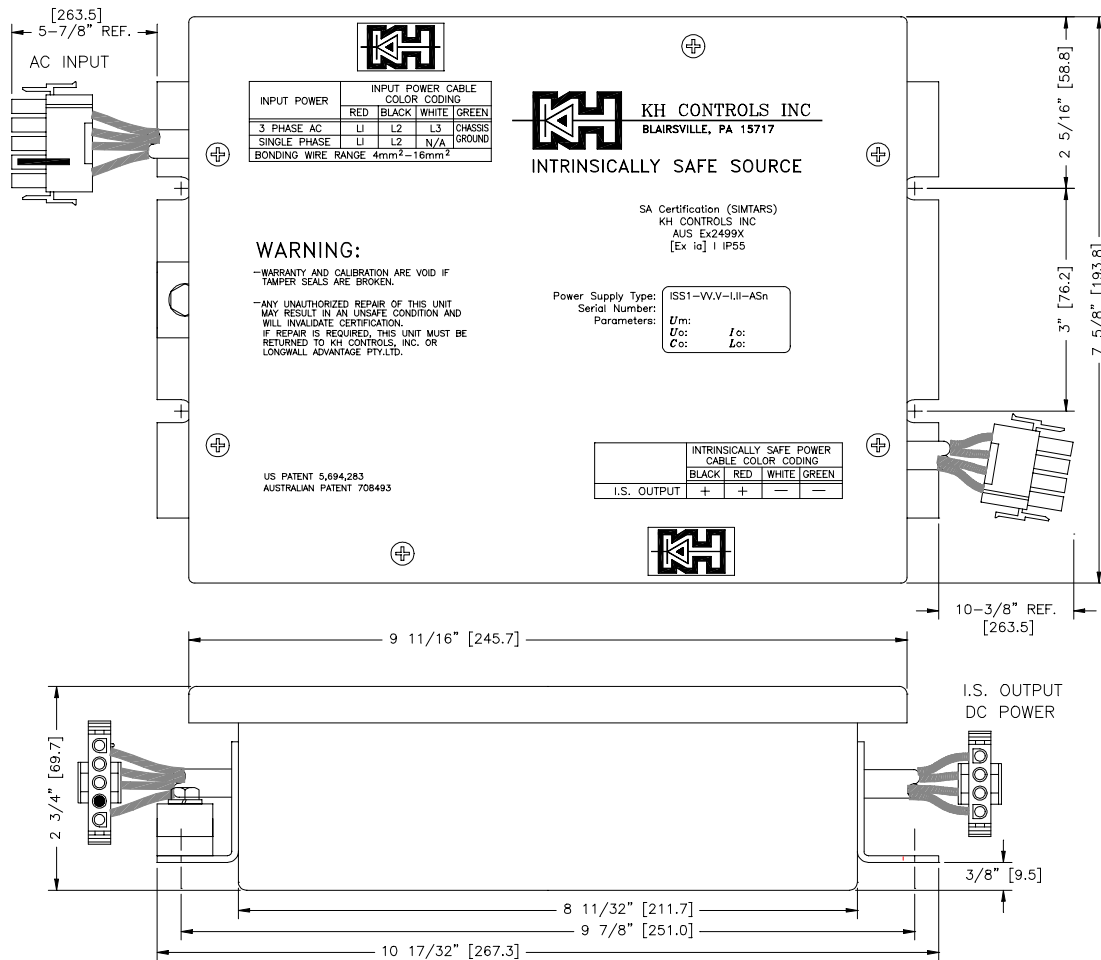
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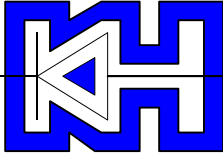
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PHYSICAL ARRANGEMENT:





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PERFORMANCE DATA:

Nominal Output Voltage is 12.960 Volts for $U_o = 13.4$ volts

The Load Regulation Characteristic is given by $12.960 - (0.035 * \text{Current})$

Model AS ISS1 Load Regulation

