

ATEX Instruction Sheet

Part Number: ATEX130

Publish date: May, 2013

Relay ETA LS DO CHARM Terminal

KL4505X1-DA1 Relay ETA LS DO CHARM Terminal

Hazardous Atmosphere



II 3G Ex nA nC IIC Gc
FM12ATEX0089U
IECEX FMG 12.0036U

Power Specifications

KL4505X1-DA1 30VDC at 1Amp

Environmental Specifications

Ambient Temperature	-40 to 70° C
Shock	10g ½ Sinewave for 11 msec
Vibration	1mm Peak to Peak from 2 to 13.2Hz; 0.7g from 13.2 to 150Hz
Airborne Contaminants	ISA-S71.04 –1985 Airborne Contaminants Class G3
Relative Humidity	5 to 95% Non-Condensing IP 20 Rating
Terminal block key position	Set to 6B at Factory

Note: Refer to the product label for serial number and location and date of manufacture.

Warning: This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P5403 "*DeltaV™ Electronic Marshalling Digital Automation System (CHARM I/O Subsystem) Zone 2 Installation Instructions*". Other installation instructions are available in the "*DeltaV™ S-series and CHARMs Hardware Installation*" manual.

Removal and Insertion

CHARM Terminal Blocks can be added or removed with System Power applied only when the following conditions are met:

- when the power supplied to the KL1501X1-BA1 CSLS Power Module has a maximum open circuit voltage (Voc) of 26.4VDC
- no Charm is installed
- no energized field wiring is connected to the terminal

Once installed, the Charm Terminal assumes the circuit parameters of the Charm for that position.

A keying system ensures compatibility between the LS DO ETA Redundant CHARM and the Relay ETA LS DO CHARM terminal block. The terminal block keys are unresettable and set at the factory to position 6B which only allows the LS DO ETA Redundant CHARM to be installed.

A terminal block fuse may NOT be removed with field power energized for non-sparking circuits.

Maintenance and Adjustment

This unit contains no user serviceable parts and should not be disassembled for any reason. Calibration is not required.

Other Safety Approvals



CL. 1 Div. 2
GP. A,B,C,D
HAZ. LOC.
TEMP. Rating T4

