

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20120323 – E228652  
**Report Reference** E228652 – 2011 October 13  
**Issue Date** 2012 March 23  
**Issued to:** PHOENIX CONTACT GMBH & CO KG  
 FLACHSMARKTSTRASSE 8  
 32825 BLOMBERG, GERMANY

**This is to certify that  
 representative samples of**

Motor Controllers, Magnetic  
 Open Type Reversing Motor Starter provided with Overload Protection, Models ELR W3-24DC/500AC-2I, ELR W3-230AC/500AC-2I, ELR W3-24DC/500AC-9I, ELR W3-230AC/500AC-9I, ELR W3-24DC/500AC-2I-SP. Models ELR, followed by H5, followed by IES-SC or -I-SC, followed by 24DC/500AC or 230AC/500AC, followed by 0.6, 2, 9, 0.6-SP, or 2-SP.

Open Type Motor Starter provided with Overload Protection, Models ELR, followed by H3, followed by IES-SC or -I-SC, followed by 24DC/500AC or 230AC/500AC, followed by 0.6, 2, 9, 0.6-SP, or 2-SP.

Open Type Reversing Motor Controller, Models ELR H5, followed by -ES-SC or SC, followed by 24DC/500AC or 230AC/500AC, followed by 0.6, 2 or 9.

Open Type Reversing Motor Controller, Models ELR H3, followed by -ES-SC or SC, followed by 24DC/500AC or 230AC/500AC, followed by 0.6, 2 or 9.

(See following pages for additional model information.)

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 60947-1, "Low-Voltage Switchgear and Controlgear - Part 1: General Rules" and CAN/CSA-C22.2 No. 60947-1-2007, "Low-Voltage Switchgear and Controlgear - Part 1: General Rules."

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:

 the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney, Director, North American Certification Programs  
 UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## GENERAL:

Three-phase solid-state motor contactors and motor starters with or without reversing functions. Provided with 24 V dc or 230 V ac control circuit input, and power circuit ratings of 0.6 A, 2 A or 6.5 A FLA at 500 Vac.

The motor starters are equipped with an adjustable overload protection for motor protection in tripping class 10.

The interlocking means provided in the reversing motor controllers have been found equivalent to simultaneous electrical and mechanical interlocking.

## RATINGS:

### Control Circuit:

#### Control (forward/reverse):

24 Vdc, 3mA (Models with suffix -24DC)  
85 - 253 Vac, 7 mA (Models with suffix -230AC)

#### Control Supply:

24 Vdc, 40 mA (Models with suffix -24DC)  
85 - 253 Vac, 4 mA (Models with suffix -230AC)

Note: 24 Vdc provided by isolating transformer.

### Power Circuit:

#### Input / Output:

42 - 500 Vac, 0.6 FLA  
(Models with suffix /500AC-0.6 or /500AC-0.6-SP)

42 - 500 Vac, 2.4 FLA (Models with suffix /500AC-2I or/500AC-2 or /500AC-2-SP or /500AC-2I-SP)

42 - 500 Vac, 6.5 FLA (Models with suffix /500AC-9I or /500AC-9)

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Short Circuit Current Rating (Standard Fault): 5000 A

Short Circuit Current Rating (High Fault): 100 kA with  
30 A Fuse, Class J or CC

Wire Range:

#26 - 14 AWG Solid and Stranded (Line/Load Terminals)

Factory and Field

Torque:

5 - 7 lbs-ins (Line/Load Terminals)

Overload Protection:

Class 10 -

Models ELR W3-24DC/500AC-2I, ELR W3-230AC/500AC-2I,  
ELR W3-24DC/500AC-9I, ELR W3-230AC/500AC-9I,  
ELR W3-24DC/500AC-2I-SP.

Models ELR H3 or ELR H5, followed by IES-SC or I-SC, followed by 24DC/500AC or  
230AC500AC, followed by 0,6, 2, or 9.

Models ELR H5, followed by -I-SC-24DC/500AC, followed by 0,6 or 2, followed by SP.

Maximum Ambient Temperature rating of 70°C. See ILL. 8 for de-rating curve.

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## MODEL SIMILARITIES:

Series ELR H3 and ELR H5 are similar in construction and ratings to series ELR W3 except for changes to PCB layout and differences in software/firmware options.

Models with suffixes /500AC-2I-SP, /500AC-2-SP, and /500AC-0,6-SP are identical to models with suffixes /500AC-2I, /500AC-2, and /500AC-0,6 except for changes to software/firmware.

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