

DEMKO CERTIFICATE

Certificate No. D-06106-M1
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Certificate Holder EVERLIGHT ELECTRONICS CO LTD
6-8 ZHONGHUA RD SHULIN DISTRICT
NEW TAIPEI, 23860 Taiwan

Manufacturer EVERLIGHT ELECTRONICS CO LTD
6-8 ZHONGHUA RD SHULIN DISTRICT
NEW TAIPEI, 23860 Taiwan

Production site EVERLIGHT ELECTRONIC (CHINA) CO LTD
2135 ZHONG SHAN NORTH RD WUJIANG ECONOMY
DEVELOPMENT ZONE (YUN XI AREA), SONGLING TOWN
WUJIANG CITY, 215000 JIANGSU China

Certified Product Model Optocouplers
EL817./EL816./EL819./EL829./EL826./EL827.,
See Page 2 to Page 13

Trademark EVERLIGHT

Rated Voltage / Frequency 250Vrms
Rated Current / Power -
Insulation Class -
Degree of protection (IP) -
Tested acc. to

EN 60065:2014, EN 60950-1:2006/A11:2009, EN 60950-1:2006/A12:2011, EN 60950-1:2006/A1:2010, EN 60950-1:2006/A2:2013, EN 60950-1:2006, EN 61347-1:2015, EN 60335-1:2012, EN 60335-1:2012/A11:2014, EN 62368-1:2014 P15219385/A3 issued on 2017-07-20

Test Report No.
Additional This Certificate replaces previous certificate no. D-06106 issued on 2017-09-25 due to missing models
Expire date 2027-07-19

Certification Manager
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the D Mark Requirements. The Designated Certificate holder is entitled to use the δ or for cables <DEMKO> for the Certified Product manufactured at the production site(s) identified above, in accordance with the D Mark Service Agreement, including without limitation the D Mark Testing and Certification Services Service Terms. Only those Products bearing the D Mark should be considered as being covered by UL's D Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.

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Model / Type Ref.

EL817./EL816./EL819./EL829./EL826./EL827./
EL717./4N25./4N26./4N27./4N28./4N35./4N36./4N37./4N38./MCT2./MCT2E./
MCT210./CNY17-1./CNY17-2./CNY17-3./CNY17-4./MOC8111./MOC8112./
MOC8113./H11A1./H11A2./H11A3./H11A4./H11A5./TIL111./TIL117./CNX35U./

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. Tested for 5000m.

Model / Type Ref.

EL2200./EL2212./EL2231./EL2201./EL2202./EL2219./EL2211./ EL2232.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.2mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength tests, between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C

Model / Type Ref.

ELR3602./ELR3603./ELR2602./ELR2603./ELR1602./ELR1603./ELR3502./
ELR3503./ELR2502./ELR2503./ELR1502./ELR1503./ELR0223./ELR1223./
ELR2223./ELR3223.

Principal characteristics

Power Triac Optocoupler. Minimum external creepage distance is measured to 8.2mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength tests, between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C.

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Model / Type Ref.
EL847./EL844./EL845.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 5.1mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength tests, between input and output 4800Vac/1 minute. The symbol "." in type designation may be A to Z, numbers or blank, denote different pin shape. Maximum operating temperature: 110°C

Model / Type Ref.

EL2801./EL354./EL355./EL356./EL357./EL359./EL121./EL124./EL2701./
EL2705./EL357N./EL356N./EL121N./EL124N./EL2701N./EL354N./EL2705N./
EL3H7./EL281./EL3H4./EL280./EL3H71./ELM301X./ELM302X./ELM305X./
ELM307X./ELM303X./ELM304X./ELM306X./ELM308X.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4).

Model / Type Ref.

EL815./ EL814./EL824./ EL825.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.9mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C

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Model / Type Ref.

EL617./CNY75G./CQY80.G/K233.G/TCDT110.G/TCDT111.G/TCDT112.G/
HS817.G/TCET110.G/TCET111.G/TCET120.G

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C.

Model / Type Ref.

EL205./EL206./EL207./EL208./EL211./EL212./EL213./EL215./EL216./EL217./
ELD207./ELD208./ELD213./ELD217./ELD205./ELD206./ELD211.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol “.” in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C.

Model / Type Ref.

6N135./6N136./6N137./6N138./6N139./EL2502./EL250L./EL2503./EL4502./
EL4503./EL2530./EL253L./EL2531./EL4534./EL2730./EL2731./EL2601./
EL260L./EL2611./EL261A./EL261N./EL2630./EL263L./EL263A./EL263N./
EL2631./EL4661./EL4504.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 8.0mm, minimum internal creepage distance is measured to 5.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C

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Model / Type Ref.

EL0500./EL0501./EL0452./EL0453./EL0454./EL0600./EL0601./EL0611./
EL0700./EL050L./EL060L./EL0701./EL061A./EL061N./EL0551./EL0530./
EL0531./EL0533./EL063X./EL0661./EL0730./EL0731./EL053L.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C. The symbol "X" in type denotes X = Part no. (0,1,L,A,N).

Model / Type Ref.

EL101X./ EL357L./ EL355L./ EL354L./ EL111X./ EL161X./ EL151X./EL101L.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9). Tested for 5000m.

Model / Type Ref.

EL806A./ EL810A./ EL820A./ EL825A./ EL835A./ EL840A./ EL860A./
EL406A./ EL410A./ EL420A./ EL425A./ EL435A./ EL440A./ EL460A./
EL606A./ EL610A./ EL620A./ EL625A./ EL635A./ EL640A./ EL660A.

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 85°C. Thermal cycling test, 10 cycles. Each cycle: 68h in 85 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape.

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Model / Type Ref.
EL451./EL452./EL3H7L./ EL351./ EL352./ EL3571N./ EL357NL.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. The symbol “X” in type denotes X = Part no. (0,1,2,3,4).

Model / Type Ref. H11L3./H11D1./H11D2./H11D3./H11D4./H11G1./H11G2./EL371./ EL725./4N50./4N51./4N52./4N53./4N54./4N55./4N56./4N57./4N58./4N59./ EL852./EL851./H11G3.

Principal characteristics Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C. The symbol “X” in type denotes X = Part no. (0,1,2,3,4)

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Model / Type Ref.

CNX36U./CNX38U./CNX39U./SL5500./SL5501./SL5504./SL5511./
MOC8100./MOC8101./MOC8102./MOC8103./MOC8104./MOC8105./
MOC8106./MOC8107./MOC8108./EL9001./CNY17F-1./CNY17F-2./
CNY17F-3./CNY17F-4./H11AA1./H11AA2./H11AA3./H11AA4./HS817./
K817P./TCET110.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. Tested for 5000m.

Model / Type Ref.

TCET111./TCET120./VO610A./VO615A./CNY17G./CNY75./CQY80./K233./
TCDT110./TCDT111./TCDT112./EL2501./EL2561./EL8171./CNY171-1./
CNY171-2./CNY171-3./CNY171-4./CNY17F1-1./CNY17F1-2./CNY17F1-3./
CNY17F1-4./EL610./EL817L.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C. Tested for 5000m.

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Model / Type Ref.
EL070L./EL071L./EL083L./ EL086L.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C. The symbol “X” in type denotes X = Part no. (0,1,L,A,N)

Model / Type Ref.
ELS500./ELS501./ELS511./ELS050L./ELS051L./ELS052L./ELS600./ELS601./
ELS611./ELS060L./ELS061L./ELS062L.

Principal characteristics

High Speed Optocoupler . Minimum external creepage distance is measured to 8.4mm, minimum internal creepage distance is measured to 5.56mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C

Model / Type Ref.
ELM440A./ELM460A./ELM640A./ELM660A./ELM840A./ELM860A.

Principal characteristics

Solid State Relay. Minimum external creepage distance is measured to 5.7mm, minimum internal creepage distance is measured to 4.31mm and minimum distance through insulation is measured to 0.3mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C

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Model / Type Ref.
EL101XH.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 125 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. Maximum operating temperature: 125°C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)

Model / Type Ref.
EL357NH./EL3H7H.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. Maximum operating temperature: 125°C.

Model / Type Ref.
EL817H.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 125 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. Maximum operating temperature: 125°C

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Model / Type Ref.

ELT301X./ ELT302X./ ELT305X./ ELT303X./ ELT304X./ ELT306X./
ELT308X./ ELT307X.

Principal characteristics

Triac Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Maximum operating temperature: 110°C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "X" in type denotes X = Part no. (0,1,2,3,4). The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

Model / Type

Ref. ELW137./ ELW139./ ELW2601./ ELW2611./ ELW136./ ELW135./ ELW4502./
ELW4503./ ELW138./ ELW260L./ ELW250L./ ELW4504./ELW2200./
ELW2201./ ELW2202./ ELW2219./ ELW2211./ ELW2212.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 11.85mm, minimum internal creepage distance is measured to 7.72mm and minimum distance through insulation is measured to 0.9mm. Tested for reinforced insulation. Maximum operating temperature: 100°C. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.

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Model / Type Ref.
EL3120./ EL3140./ EL3150./ EL3180./ EL3184.

Principal characteristics

IGBT Gate Drive Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm.
Tested for reinforced insulation. Maximum operating temperature: 110°C.
Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.
The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape

Model / Type Ref.
ELW3120./ ELW3140./ ELW3150./ ELW3180./ ELW3184.

Principal characteristics

IGBT Gate Drive Optocoupler. Minimum external creepage distance is measured to 11.85mm, minimum internal creepage distance is measured to 7.72mm and minimum distance through insulation is measured to 0.9mm.
Tested for reinforced insulation. Maximum operating temperature: 110°C.
Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape

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Model / Type Ref.

ELD3H5./ ELD3H6./ ELD3H7./ ELD3H4./ ELQ3H4./ ELQ3H5./ ELQ3H7./ ELM314.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Maximum operating temperature: 110°C. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape

Model / Type Ref.

ELM452./ ELM453./ ELM600./ ELM601./ ELM611./ ELM452L./ ELM453L./ ELM600L./ ELM601L./ ELM611L./ELM454./ELM80L./ ELM81L.

Principal characteristics

High Speed Optocoupler. Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm.

Tested for reinforced insulation. Maximum operating temperature: 100°C.

Thermal cycling test, 10 cycles. Each

cycle: 68h in 100 degree C, 1h in 25 degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a

humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.

The symbol "." in type designation may be blank, A-Z or numbers, and denote different pin shape.

Certification Body

**UL International Demko A/S, Borupvang 5A, DK-2750
Ballerup, Denmark, Tel. +45 44 85 65 65,
info.dk@ul.com
www.ul-europe.com**



Appendix DEMKO CERTIFICATE

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Model / Type Ref.

ELD851./ELD852./4N29./4N30./4N31./4N32./4N33./H11B1./H11B2./H11B3./
H11B255./TIL113./MOC119./MOC8020./MOC8021./MOC8030./MOC8050./
MOC8080./EL301X./EL302X./EL305X./EL307X./EL303X./EL304X./EL306X./
EL308X./EL3161./EL3162./EL3163./H11L1./H11L2.

Principal characteristics

Optocoupler. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol “.” in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C. The symbol “X” in type denotes X = Part no. (0,1,2,3,4).

External Certification Information:

Certificate No. P15219385/A3 issued on 2017-07-20 by Nemko AS.

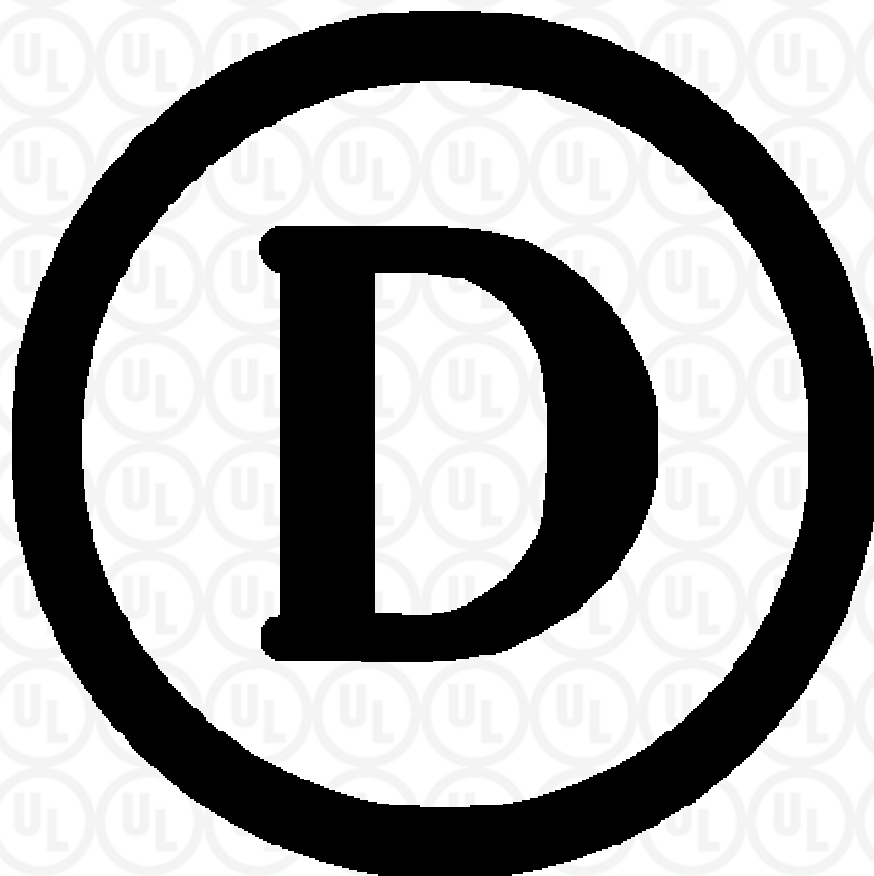
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