

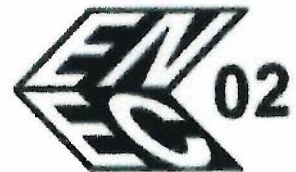
LICENCE

No. 19448 replaces No.18751

Issued to:
Applicant:
NIKO N.V.
Industriepark-West 40
9100 SINT-NIKLAAS
Belgium



Licensee:
NIKO N.V.
Industriepark-West 40
9100 SINT-NIKLAAS
Belgium



Product : electronic convertors
Trade name(s) : NIKO
Type(s)/model(s) : 320-00101, 320-00102, 320-00103, 320-00104, 320-00106,
320-00107, 320-00111, 320-00112, 320-00114, 320-00115,
320-00117, 320-00119, 320-00121, 320-00122, 320-00123,
320-00124, 320-00125, 320-00126, 320-00127, 320-00130,
320-00131, 320-00132, 320-00135

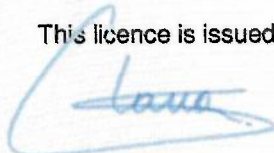
The product and any acceptable variation thereto is specified in the annex to this licence and the documents therein referred to.

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- a type test according to the standard specified in annex
- an inspection of the production location
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This licence is issued on: 05/05/2015



ir. C. Lana,
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product : electronic convertors
 Trade name(s) : NIKO
 Type(s)/Model(s) : 320-00101, 320-00102, 320-00103, 320-00104, 320-00106,
 320-00107, 320-00111, 320-00112, 320-00114, 320-00115,
 320-00117, 320-00119, 320-00121, 320-00122, 320-00123,
 320-00124, 320-00125, 320-00126, 320-00127, 320-00130,
 320-00131, 320-00132, 320-00135

Product data - type 320-00121

description : Independent and short-circuit-proof safety transformer
 suitable for 12V halogen lighting
 rated input(s) : 230 V, 50-60 Hz
 rated primary current (In PRI) : 300 mA
 rated output voltage (Un out) : 11.5 V
 rated secondary power (Pmax SEC) : min 20 W - max 70 W
 rated ambient temperature (ta) : ta 50°C
 temperature class : tc 80°C
 degree of protection : IP 20
 class : II

Product data - type 320-00123

description : Independent and short-circuit-proof safety transformer
 suitable for 12V halogen lighting
 rated input(s) : 230 V, 50-60 Hz
 rated primary current (In PRI) : 650 mA
 rated output voltage (Un out) : 11.5 V
 rated secondary power (Pmax SEC) : min 35 W - max 150 W
 rated ambient temperature (ta) : ta 50°C
 temperature class : tc 85°C
 degree of protection : IP 20
 class : II

Product data - type 320-00124

description	:	Independent and short-circuit-proof safety transformer suitable for 12V halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	650 mA
rated output voltage (Un out)	:	11.5 V
rated secondary power (Pmax SEC)	:	min 35 W - max 150 W
rated ambient temperature (ta)	:	ta 40°C
temperature class	:	tc 80°C
degree of protection	:	IP 65
class	:	II

Product data - type 320-00125

description	:	Independent and short-circuit-proof safety transformer suitable for 12V halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	650 mA
rated output voltage (Un out)	:	11.5 V
rated secondary power (Pmax SEC)	:	min 35 W - max 150 W
rated ambient temperature (ta)	:	ta 40°C
temperature class	:	tc 80°C
degree of protection	:	IP 40
class	:	II

Product data - type 320-00126

description	:	Independent and short-circuit-proof safety transformer suitable for 12V halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	650 mA
rated output voltage (Un out)	:	11.5 V
rated secondary power (Pmax SEC)	:	min 35 W - max 150 W
rated ambient temperature (ta)	:	ta 40°C
temperature class	:	tc 80°C
degree of protection	:	IP 40
class	:	II

Product data - type 320-00127

description	:	Independent and short-circuit-proof safety transformer suitable for 12V halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	650 mA
rated output voltage (Un out)	:	11.5 V
rated secondary power (Pmax SEC)	:	min 35 W - max 150 W
rated ambient temperature (ta)	:	ta 40°C
temperature class	:	tc 80°C
degree of protection	:	IP 40
class	:	II

Product data - type 320-00101

description	:	Electronic convertor for filament lamps
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 20
class	:	II

Product data - type 320-00102

description	:	Electronic convertor for filament lamps
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 20
class	:	II

Product data - type 320-00103

description	:	Electronic convertor for filament lamps
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 20
class	:	II

Product data - type 320-00132

description	:	Fully potted electronic convertor for filament lamps in round housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 20 or IP 67
class	:	II

Product data - type 320-00106

description	:	Fully potted electronic convertor for filament lamps in small rectangular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 68
class	:	II

Product data - type 320-00111

description	:	Fully potted electronic convertor for filament lamps in small rectangular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 68
class	:	II

Product data - type 320-00114

description	:	Fully potted electronic convertor for filament lamps in small rectangular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 68
class	:	II

Product data - type 320-00117

description	:	Fully potted electronic convertor for filament lamps in small rectangular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 68
class	:	II

Product data - type 320-00131

description	:	Fully potted electronic convertor for filament lamps in small rectangular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 68
class	:	II

Product data - type 320-00135

description	:	Fully potted electronic convertor for filament lamps in small tubular housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	300 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 70 W
rated ambient temperature (ta)	:	ta 50°C
temperature class	:	tc 80°C
degree of protection	:	IP 20
class	:	II

Product data - type 320-00122

description	:	Electronic convertor for filament lamps in small rectangle tube housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 35 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 75°C
degree of protection	:	IP 20
class	:	II

Product data - type 320-00107

description	:	Fully potted electronic convertor for filament lamps in rectangle housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 35 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 75°C
degree of protection	:	IP 54
class	:	II

Product data - type 320-00112

description	:	Electronic step-down convertor for low voltage halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 85°C
degree of protection	:	IP 20
class	:	II
terminals	:	srew type 1.5 mm ² on primary and secondary

Product data - type 320-00115

description	:	Electronic step-down convertor for low voltage halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 85°C
degree of protection	:	IP 20
class	:	II
terminals	:	srew type 1.5 mm ² on primary and secondary

Product data - type 320-00119

description	:	Electronic step-down convertor for low voltage halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 20 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 85°C
degree of protection	:	IP 20
class	:	II
terminals	:	srew type 1.5 mm ² on primary and secondary

Product data - type 320-00130

description	:	Fully potted electronic convertor for filament lamps in rectangle housing
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 Vac
rated secondary power (Pmax SEC)	:	min 35 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 75°C
degree of protection	:	IP 54
class	:	II

Product data - type 320-00104

description	:	Electronic step-down convertor for low voltage halogen lighting
rated input(s)	:	230 V, 50-60 Hz
rated primary current (In PRI)	:	455 mA
rated output voltage (Un out)	:	11.5 V
rated secondary power (Pmax SEC)	:	min 20 W - max 105 W
rated ambient temperature (ta)	:	ta 45°C
temperature class	:	tc 85°C
degree of protection	:	IP 20
class	:	II
terminals	:	screw terminals 1.5 mm ² on primary and secondary

TESTS

Test requirements


EN 60598-1:2008 + A11:2009
 EN 60598-2-1:1989
 EN 61047:2004
 EN 61347-1:2008 + A1:2011 + A2:2013
 EN 61347-2-2:2012

Test results

The test results are laid down in test reports ref. 587446.01_SMT10-004 to -006, 589970.01_SMT11-001 to -003, 592649.01_SMT11-006 to -008, 592649.01_SMT11-006b, 592649.01_SMT11-008b, 592649.02_SMT12-001 , 604412.01_SMT14-001 and 615587.01_SMT15-004

Conclusion

The examination proved that all test requirements were met.

Checked by, project leader : Zanutto Luigi - 05/05/2015
Department Manager, :
Product Certification :
Certification Manager :  2015-05-05

FACTORY LOCATION(S)

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