



ETS
PRODUCT SERVICE AG

GLOBAL ACCREDITATIONS : TEST HOUSE, COMPETENT BODY; NOTIFIED BODY, TCB

CERTIFICATE OF COMPLIANCE

- ELECTRO MAGNETIC COMPATIBILITY -

This certifies that the following designated product

MOULDED CASE CIRCUIT-BREAKER

**MODEL NO. : UKM30-800
UKM30-60
UKM30-100
UKM30-250
UKM30-400**

.....
(Product identification)

has finished the technical tests and pass all or particular mentioned test cases at the following standards

**EN 60947-1 : 2004 (CLAUSE 7.3, 8.4)
EN 60947-2 : 2006 (ANNEX J)**

.....
(Identification of regulations / standards)

This certificate is issued for

**ZHEJIANG ZHENGJIE INDUSTRY ELECTRIC CO., LTD.
WENZHOU DAQIAO INDUSTRIAL ZONE, YUEQING
ZHEJIANG, CHINA**

.....
(Name / Address)

THE CERTIFICATION IS VALID ONLY IN ACCORDANCE WITH THE TEST REPORT NR. T3M20711-1278-E-16
THE CONFIRMATION IS VALID ONLY IF THE PRODUCT IS MANUFACTURED IN ACCORDANCE WITH THE TESTREPORT

IMPORTANT! THIS DOCUMENT DOESN'T CONFIRMS THE PRESUMPTION THAT THE MENTIONED PRODUCT FULLFILLS THE REQUIREMENTS OF AN EUROPEAN DIRECTIVE OR NATIONAL LAW OF A EUROPEAN MEMBER COUNTRY.

GS LVD E/e-MARK FCC GSM UMTS CE-MARK SAR CB EMC DECT WLAN Bluetooth R&TTE Notified Body



T3M20711-1278

This is the result of tests carried out on those samples of the product referred to above which were submitted for testing, in accordance with the specification for the respective standards. The certificate holder has the right to fix the ETS-MARK which shows the EMC segment onto each individual product in the series to which the inspection sample belongs, provided that the product is manufactured in accordance with the test report.



November 28, 2007

.....
(Date)

Dr. Genz

.....
Dr. Genz

ETS PRODUCT SERVICE AG

STORKOWER STRASSE 38C, D-15526 REICHENWALDE B. BERLIN, GERMANY, TEL. +49-33631-888 0 FAX +49-33631-888 660

CERTIFICATE

Number: 2138134.03

Issued to:
Applicant:
Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China



Manufacturer/Licensee:
Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China

Product(s) : Moulded Case Circuit Breaker
Trade name(s) : KRIPAL
Type(s)/model(s) : UKM32-160

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

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2136802

KEMA Quality hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 21 December 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.L. Schendstok
Certification Manager

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THE DUTCH COUNCIL
FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	: Moulded Case Circuit Breaker
trade name(s)	: KRIPAL
type(s)	: UKM32-160,
number of poles	: 3P, 3P + N (The N pole has protection)
rated operational voltage (Ue)	: 415 / 380 Vac
rated insulation voltage (Ui)	: 750 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated frequency	: 50 / 60 Hz
rated operational current (Ie)	: 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160 A (adjustable from 0,8 Ie - 1 Ie)
conventional thermal current (Ith)	: 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160 A (adjustable from 0,8 Ith - 1 Ith)
rated ultimate short-circuit breaking capacity(Icu)	: 42 kA
rated service short-circuit breaking capacity(Ics)	: 42 kA
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: Front: 0 mm, Back:0 mm Left: 25 mm, Right: 25 mm Top: 50 mm, Bottom: 50 mm
electrical control circuits	: N/A
shunt release	: N/A
undervoltage release	: N/A
degree of protection	: IP 20 (from front of MCCB)
circuit-breaker for use on phase-earthed systems	: N/A
circuit-breaker for use in IT systems	: N/A
EMC environment A or B	: A or B
method of mounting	: Fixed
instantaneous release	: 10 In, fixed, magnetic type
inverse time delay release	: 0,8 - 1,0 In adjustable in step of 0,1 In, thermal type

TESTS

Test requirements

EN 60947-2:2006 + A1:2009

Test result

The test results are laid down in KEMA Quality test file 2138134.03, 330063000 and test report 330630.50

Conclusion

The examination proved that all test requirements were met.

Tested by : Fred Fu

Checked by : Eric Wang

Factory locations

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China

CERTIFICATE

Issued to:

Applicant:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone, Baixiang,
Yueqing, Zhejiang, China

Manufacturer/Licensee:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone, Baixiang,
Yueqing, Zhejiang, China

Product(s) : Moulded-Case Circuit Breaker

Trade name(s) : KRIPAL

Type(s)/model(s) : UKM32-250

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

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2136802

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 20 March 2012 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2150778.01



DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director



F.S. Strikwerda
Certification Manager

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All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

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FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

product	:	Moulded-Case Circuit Breaker
trade name(s)	:	KRIPAL
type(s)	:	UKM32-250
rated operational voltage (Ue)	:	380 / 415 Vac
rated insulation voltage (Ui)	:	750 Vac
rated impulse withstand voltage (Uimp)	:	8 kV
rated frequency	:	50 / 60 Hz
suitable for isolation	:	Yes
utilization category	:	A
electrical control circuits	:	N/A
shunt release	:	N/A
undervoltage release	:	N/A
auxiliary contact	:	N/A
method of mounting	:	Fixed
EMC Environment	:	A and B
circuit-breaker for use on phase-earthed systems	:	N/A
circuit-breaker for use in IT systems	:	N/A
reference temperature	:	40 °C
number of poles	:	3 poles or 4 poles (3P + N)
protected poles	:	3 poles or 4 poles (neutral pole protected)
rated current (In)	:	100 A, 125 A, 150A, 175 A, 200 A, 225 A, 250 A
rated operational current (Ie)	:	0,8 In ~ 1 In
conventional thermal current (Ith)	:	Equal to In
rated ultimate short-circuit breaking capacity (Icu)	:	42 kA
rated service short-circuit breaking capacity (Ics)	:	100% Icu
safety distance	:	Up / Down: 50 mm Left / Right: 25 mm Front / Back: 0 mm
circuit-breaker for use in IT systems	:	N/A
inverse time delay release	:	Thermal type, 0,8 In ~ 1 In
instantaneous release	:	Magnetic type, 5 In ~ 10 In for 2 phases in series 6 In ~ 12 In for single pole
connection	:	16 ~ 120 mm ² , prepared conductors (round copper)

TESTS**Test requirements**

EN 60947-2:2006 + A1:2009

IEC 60947-2:2006 + A1:2009

Test result

The test results are laid down in DEKRA test file 2150778.01 and report 3302005.50.

Conclusion

The examination proved that all test requirements were met.

Tested by : Eric Wang

Checked by : Fred Fu

Factory locations

Zhejiang KRIPAL Electric Co., Ltd.

Wenzhou Daqiao Industrial Zone, Baixiang, Yueqing, Zhejiang, China

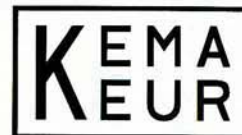
CERTIFICATE

Number: **2138134.02**

Issued to:

Applicant:

**Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China**



Manufacturer/Licensee:

**Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China**

Product(s) : Moulded Case Circuit Breaker
Trade name(s) : KRIPAL
Type(s)/model(s) : UKM32-630

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

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2136802

KEMA Quality hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 21 December 2010 and expires upon withdrawal of one of the above mentioned standards.

A handwritten signature in blue ink, appearing to read 'G. Zoetbrood'.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

A handwritten signature in blue ink, appearing to read 'H.L. Schendstok'.

H.L. Schendstok
Certification Manager

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FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	: Moulded Case Circuit Breaker
trade name(s)	: KRIPAL
type(s)	: UKM32-630
number of poles	: 3P, 3P + N (The N pole has protection)
rated operational voltage (Ue)	: 415 / 380 Vac
rated insulation voltage (Ui)	: 750 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated frequency	: 50 / 60 Hz
rated operational current (Ie)	: 300, 400, 500, 630 A (adjustable from 0,8 Ie - 1 Ie)
conventional thermal current (Ith)	: 300, 400, 500, 630 A (adjustable from 0,8 Ith - 1 Ith)
rated ultimate short-circuit breaking capacity(Icu)	: 55 kA
rated service short-circuit breaking capacity(Ics)	: 55 kA
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: Front: 0 mm, Back:0 mm Left: 50 mm, Right: 50 mm Top: 120 mm, Bottom: 120 mm
electrical control circuits	: N/A
shunt release	: N/A
undervoltage release	: N/A
degree of protection	: IP 20 (from front of MCCB)
circuit-breaker for use on phase-earthed systems	: N/A
circuit-breaker for use in IT systems	: N/A
EMC environment A or B	: A or B
method of mounting	: Fixed
instantaneous release	: 5 - 10 In, adjustable in step of 1 In, magnetic type
inverse time delay release	: 0,8 - 1,0 In adjustable in step of 0,1 In, thermal type

TESTS

Test requirements

EN 60947-2:2006 + A1:2009

Test result

The test results are laid down in KEMA Quality test file 2138134.02, 33063000 and test report 330630.51

Conclusion

The examination proved that all test requirements were met.

Tested by : Fred Fu

Checked by : Eric Wang

Factory locations

Zhejiang KRIPAL Electric Co.,Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China

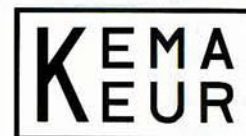
CERTIFICATE

Number: 2138134.03

Issued to:

Applicant:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China



Manufacturer/Licensee:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China

Product(s) : Moulded Case Circuit Breaker
Trade name(s) : KRIPAL
Type(s)/model(s) : UKM32-160

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

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2136802

KEMA Quality hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 21 December 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.L. Schendstok
Certification Manager

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FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	: Moulded Case Circuit Breaker
trade name(s)	: KRIPAL
type(s)	: UKM32-160,
number of poles	: 3P, 3P + N (The N pole has protection)
rated operational voltage (Ue)	: 415 / 380 Vac
rated insulation voltage (Ui)	: 750 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated frequency	: 50 / 60 Hz
rated operational current (Ie)	: 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160 A (adjustable from 0,8 Ie - 1 Ie)
conventional thermal current (Ith)	: 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160 A (adjustable from 0,8 Ith - 1 Ith)
rated ultimate short-circuit breaking capacity(Icu)	: 42 kA
rated service short-circuit breaking capacity(Ics)	: 42 kA
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: Front: 0 mm, Back:0 mm Left: 25 mm, Right: 25 mm Top: 50 mm, Bottom: 50 mm
electrical control circuits	: N/A
shunt release	: N/A
undervoltage release	: N/A
degree of protection	: IP 20 (from front of MCCB)
circuit-breaker for use on phase-earthed systems	: N/A
circuit-breaker for use in IT systems	: N/A
EMC environment A or B	: A or B
method of mounting	: Fixed
instantaneous release	: 10 In, fixed, magnetic type
inverse time delay release	: 0,8 - 1,0 In adjustable in step of 0,1 In, thermal type

TESTS

Test requirements

EN 60947-2:2006 + A1:2009

Test result

The test results are laid down in KEMA Quality test file 2138134.03, 330063000 and test report 330630.50

Conclusion

The examination proved that all test requirements were met.

Tested by : Fred Fu

Checked by : Eric Wang

Factory locations

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China

CERTIFICATE

Issued to:

Applicant:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone, Baixiang,
Yueqing, Zhejiang, China

Manufacturer/Licensee:

Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone, Baixiang,
Yueqing, Zhejiang, China

Product(s) : Moulded-Case Circuit Breaker

Trade name(s) : KRIPAL

Type(s)/model(s) : UKM32-250

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

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2136802

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 20 March 2012 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2150778.01



DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director



F.S. Strikwerda
Certification Manager

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All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

product	:	Moulded-Case Circuit Breaker
trade name(s)	:	KRIPAL
type(s)	:	UKM32-250
rated operational voltage (Ue)	:	380 / 415 Vac
rated insulation voltage (Ui)	:	750 Vac
rated impulse withstand voltage (Uimp)	:	8 kV
rated frequency	:	50 / 60 Hz
suitable for isolation	:	Yes
utilization category	:	A
electrical control circuits	:	N/A
shunt release	:	N/A
undervoltage release	:	N/A
auxiliary contact	:	N/A
method of mounting	:	Fixed
EMC Environment	:	A and B
circuit-breaker for use on phase-earthed systems	:	N/A
circuit-breaker for use in IT systems	:	N/A
reference temperature	:	40 °C
number of poles	:	3 poles or 4 poles (3P + N)
protected poles	:	3 poles or 4 poles (neutral pole protected)
rated current (In)	:	100 A, 125 A, 150A, 175 A, 200 A, 225 A, 250 A
rated operational current (Ie)	:	0,8 In ~ 1 In
conventional thermal current (Ith)	:	Equal to In
rated ultimate short-circuit breaking capacity (Icu)	:	42 kA
rated service short-circuit breaking capacity (Ics)	:	100% Icu
safety distance	:	Up / Down: 50 mm Left / Right: 25 mm Front / Back: 0 mm
circuit-breaker for use in IT systems	:	N/A
inverse time delay release	:	Thermal type, 0,8 In ~ 1 In
instantaneous release	:	Magnetic type, 5 In ~ 10 In for 2 phases in series 6 In ~ 12 In for single pole
connection	:	16 ~ 120 mm ² , prepared conductors (round copper)

TESTS**Test requirements**

EN 60947-2:2006 + A1:2009

IEC 60947-2:2006 + A1:2009

Test result

The test results are laid down in DEKRA test file 2150778.01 and report 3302005.50.

Conclusion

The examination proved that all test requirements were met.

Tested by : Eric Wang

Checked by : Fred Fu

Factory locations

Zhejiang KRIPAL Electric Co., Ltd.

Wenzhou Daqiao Industrial Zone, Baixiang, Yueqing, Zhejiang, China

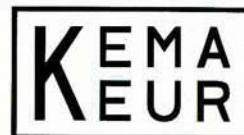
CERTIFICATE

Number: **2138134.02**

Issued to:

Applicant:

**Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China**



Manufacturer/Licensee:

**Zhejiang KRIPAL Electric Co., Ltd.
Wenzhou Daqiao Industrial Zone,
Beibaixiang, Yueqing, Zhejiang, China**

Product(s) : Moulded Case Circuit Breaker
Trade name(s) : KRIPAL
Type(s)/model(s) : UKM32-630

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

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

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A handwritten signature in blue ink, appearing to read 'G. Zoetbrood'.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

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H.L. Schendstok
Certification Manager

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ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	: Moulded Case Circuit Breaker
trade name(s)	: KRIPAL
type(s)	: UKM32-630
number of poles	: 3P, 3P + N (The N pole has protection)
rated operational voltage (Ue)	: 415 / 380 Vac
rated insulation voltage (Ui)	: 750 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated frequency	: 50 / 60 Hz
rated operational current (Ie)	: 300, 400, 500, 630 A (adjustable from 0,8 Ie - 1 Ie)
conventional thermal current (Ith)	: 300, 400, 500, 630 A (adjustable from 0,8 Ith - 1 Ith)
rated ultimate short-circuit breaking capacity(Icu)	: 55 kA
rated service short-circuit breaking capacity(Ics)	: 55 kA
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: Front: 0 mm, Back:0 mm Left: 50 mm, Right: 50 mm Top: 120 mm, Bottom: 120 mm
electrical control circuits	: N/A
shunt release	: N/A
undervoltage release	: N/A
degree of protection	: IP 20 (from front of MCCB)
circuit-breaker for use on phase-earthed systems	: N/A
circuit-breaker for use in IT systems	: N/A
EMC environment A or B	: A or B
method of mounting	: Fixed
instantaneous release	: 5 - 10 In, adjustable in step of 1 In, magnetic type
inverse time delay release	: 0,8 - 1,0 In adjustable in step of 0,1 In, thermal type

TESTS

Test requirements

EN 60947-2:2006 + A1:2009

Test result

The test results are laid down in KEMA Quality test file 2138134.02, 33063000 and test report 330630.51

Conclusion

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Tested by : Fred Fu

Checked by : Eric Wang

Factory locations

Zhejiang KRIPAL Electric Co.,Ltd.
Wenzhou Daqiao Industrial Zone,
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