CERTIFICATE

Issued to:
Applicant:
Zhejiang Chint Electrics Co., Ltd.
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang, P.R. China

Manufacturer/Licensee:
Zhejiang Chint Electrics Co., Ltd.
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang, P.R. China

Product(s) : Air Circuit Breaker
Trade name(s) : CHINT
Type(s)/model(s) : NA8-4000

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 + A1:2009 + A2:2013; IEC 60947-2:2006 + A1:2009 + A2:2013;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2032236

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: 8 October 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3305866.01

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

F.S. Strikwerda
Certification Manager

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL

PRODUCTS RvA C 001

KEMA KEUR

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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	:	Air Circuit Breaker
trade name(s)	:	CHINT
type(s)	:	NA8-4000
number of poles	:	3 P and 4P (protected N pole)
protected pole	:	3 or 4
rated operational voltage (Ue)	:	400 Vac / 690 Vac
rated insulation voltage (Ui)	:	1000 V for main circuit 400 V for control circuits and auxiliary circuits
rated impulse withstand voltage (Uimp)	:	12 kV for main circuit 6 kV for control circuits and auxiliary circuits
rated current (In)	:	1000 A, 1250 A, 1600 A, 2000 A, 2500 A, 2900 A, 3200 A, 3600 A, 4000 A
rated operational current (Ie)	:	(0,4 - 1,0) x In
conventional thermal current (Ith)	:	Equal to In
current rating for four-pole circuit-breakers	:	Equal to In
rated frequency	:	50 / 60 Hz
rated ultimate short-circuit breaking capacity (Icu)	:	100 kA at 400 Vac, 85 kA at 690 Vac
rated service short-circuit breaking capacity (Ics)	:	100 kA at 400 Vac, 85 kA at 690 Vac
rated short-time withstand current (Icw)	:	100 kA / 1 s at 400 Vac, 85 kA / 1 s at 690 Vac
suitable for isolation	:	Suitable
utilization category	:	B
safety distance (screen-circuit breaker)	:	All sides: 0 mm
inverse time delay release	:	Ir (inverse time delay tripping setting): (0,4 - 1,0) x In, in step of 1 A
time setting of the inverse time delay release	:	tr (inverse time delay tripping setting): 1 s, 2 s, 4 s, 8 s, 12 s, 16 s, 20 s, 24 s, 30 s with tolerance of ± 15% (at 6 Ir) Trip time at 2 Ir: Set at 1 s: 9,0 s, with tolerance of ± 15% Set at 30 s: 270 s , with tolerance of ± 15%
short time delay release	:	Isd (short time delay tripping setting): (1,5 - 10) x Ir, in step of 1 A, if Isd < 10 kA, in step of 0,01 kA, if Isd ≥ 10 kA

time setting	:	tsd (short time delay tripping setting): 0,1 s, 0,2 s, with tolerance of ± 0,040 s 0,3 s, 0,4 s, with tolerance of ± 15% Non-tripping duration: Set at 0,1 s: 0,05 s, Set at 0,4 s: 0,33 s
instantaneous release	:	Ii (instantaneous tripping setting): (2 - 15) x In, in step of 1 A, if Ii < 10 kA, in step of 0,01 kA, if Ii ≥10 kA
MCR release	:	32 kA
time setting	:	instantaneous
ground fault release	:	Ig: (0,2 - 1,0) x In (min.: 120 A, max.:1200 A), in step of1 A, if In < 2500 A; 500 A - 1200 A, in step of 1 A, if In ≥ 2500 A;
time setting	:	tg: 0,1 s, 0,2 s, with tolerance of ± 0,040 s, 0,3 s, 0,4 s, with tolerance of ± 15%
method of mounting	:	Fixed or Withdrawable
EMC environment	:	A
circuit-breaker for use on phase-earthed systems	:	N/A
circuit-breaker for use in IT systems	:	N/A
reference temperature	:	Independent
shunt release	:	AC: 220 - 230 V, 380 - 400 V, 50 / 60 Hz DC: 110 V, 220 V
under-voltage release	:	AC: 220 - 230 V, 380 - 400 V, 50 / 60 Hz
closing coil	:	AC: 220 - 230 V, 380 - 400 V, 50 / 60 Hz DC: 110 V, 220 V
stored energy motor	:	AC: 220 - 230 V, 380 - 400 V, 50 / 60 Hz DC: 110 V, 220 V
auxiliary circuits	:	Utilization category: AC-15: 1,3 A at 230 Vac, 0,75 at 400 Vac, 50 / 60 Hz DC-13: 0,55 A at 110 Vdc, 0,27 A at 220 Vdc number and kind of contact elements: 4 NO and 4 NC or 6 NO and 6 NC rated conditional short-circuit current: 1 kA kind of protective device: fuse, RL6-25/6, gG, 6 A, 500 V
External supply for trip unit	:	AC: 220 - 230 V, 380 - 400 V, 50 / 60 Hz DC: 110 V, 220 V
line/load terminal	:	Immaterial
connection	:	copper busbar: (60 x 5) mm^2 x 2 - (100 x 10) mm^2 x 3, if In = 1000 - 2900 A (100 x 10) mm^2 x 4, if In = 3200 A (100 x 10) mm^2 x 5, if In = 3600 A, 4000 A

TESTS

Test requirements
EN 60947-2:2006 + A1:2009 + A2:2013
IEC 60947-2:2006 + A1:2009 + A2:2013

Test result
The test results are laid down in DEKRA test file 3305866.01 and reports 3305866.50, 3301166.54.

Conclusion
The examination proved that all test requirements were met.

Tested by : King Wang

Checked by : Eric Wang

Factory locations
Zhejiang Chint Electrics Co., Ltd.
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang, P.R. China