
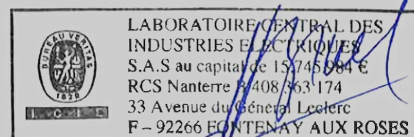


## IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product	<b>Motor Circuit-Breaker</b>
Name and address of the applicant	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS</b> 35, rue Joseph Monier - CS30323 92506 RUEIL-MALMAISON - France
Name and address of the manufacturer	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS</b> 31 rue Pierre Mendes France, Eybens 38050 GRENOBLE Cedex 9 - France
Name and address of the factory	<b>SCHNEIDER ELECTRIC INDUSTRIES POLSKA Sp z.o.o.</b> ul. Mostowa 19 32-332 BUKOWNO - Poland
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	Breaking capacity type B, N or S Terminal EL2 connector or Crimp lug From 2A to 115A See Annex
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	/
Model / Type Ref.	Tesys GV4L, Tesys GV4LE, Tesys GV4P, Tesys GV4PE , Tesys GV4PEM
Additional information (if necessary may also be reported on page 2)	Supersedes the CBTC FR_701006 dated 2017/06/29 (addition of a reference) <input checked="" type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 60947-2:2006 +A1:2009 +A2:2013 IEC 60947-4-1:2009 +A1:2012
As shown in the Test Report Ref. No. which forms part of this Certificate	147409-705360, 147409-705360/A1, 148933-704742, 148933-709107

This CB Test Certificate is issued by the National Certification Body

LCIE – Laboratoire Central des Industries Electriques  
33, avenue du Général Leclerc – BP8  
FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)LABORATOIRE CENTRAL DES  
INDUSTRIES ELECTRIQUES  
S.A.S au capital de 15745000 €  
RCS Nanterre 3408363174  
33 Avenue du Général Leclerc  
F - 92266 FONTENAY AUX ROSES

Date: 06/12/2017

Signature: **Jean-François BRUEL**  
Certification Officer

**ANNEX**
**Models: TeSys GV4L and TeSys GV4LE**

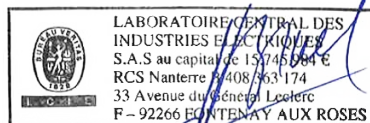
Actuation means: GV4LE: Toggle, GV4L: Rotary Handle

Note: not equipped with the overload relay function. It must be used in association with an independent overload relay (according to IEC 60947-4-1).

Classification	
Utilization category: (A or B)	A
Interruption medium	Air
Design	Moulded case
Method of controlling the operation mechanism	Independent manual
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed
Degree of protection: (IP code)	IP20
Type of release (thermo-magnetic / electronic)	Magnetic
Electromagnetic compatibility (EMC)	
Environment A or B	N/A
Circuit-breaker for use in IT systems	Yes
Rated and limiting values, main circuit	
- rated operational voltage: $U_e$ (V)	690V
- rated insulation voltage: $U_i$ (V)	800V
- rated impulse withstand voltage: $U_{imp}$ (kV)	8kV
- rated operational current: $I_e$ (A)	From 2A to 115A
- kind of current	AC
- conventional free air thermal current: $I_{th}$ (A)	115A
- number of poles	3
- rated frequency: (Hz)	50/60Hz
- uninterrupted duty: $I_u$ (A)	From 2A to 115A
Short-circuit characteristic:	
rated ultimate short-circuit breaking capacity: $I_{cu}$ (kA)	
	Type (3poles)
	B      N      S
220/240V	50      100      120
380/415V	25      50      100
440V	20      50      70
500V	10      25      30
525V	-      15      18
660/690V	-      8      10
rated service short-circuit breaking capacity: $I_{cs}$ (kA)	
	Type (3poles)
	B      N      S
220/240V	50      100      120
380/415V	25      50      100
440V	20      50      70
500V	10      25      30
525V	-      15      18
660/690V	-      2      2,5



LCIE – Laboratoire Central des Industries Electriques  
 33, avenue du Général Leclerc – BP8  
 FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



LABORATOIRE CENTRAL DES  
 INDUSTRIES ELECTRIQUES  
 S.A.S au capital de 15745084 €  
 RCS Nanterre 3408363174  
 33 Avenue du Général Leclerc  
 F – 92266 FONTENAY AUX ROSES

Date: 06/12/2017

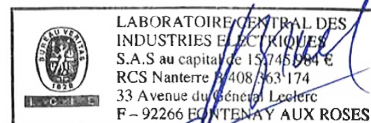
 Signature: **Jean-François BRUEL**  
 Certification Officer

**ANNEX (continued)**

Control circuits :	
Electrical control circuits :	
- kind of current: (AC, DC)	AC/DC
- rated frequency: (Hz)	50/60Hz
- rated control circuit voltage: $U_c$ ( nature, frequency, V)	MN/MX: DC 24 to 125V; AC 24 to 480V
- rated control supply voltage: $U_s$ (nature, frequency V)	MN/MX: DC 24 to 125V; AC 24 to 480V
Auxiliary circuits :	
Rated and limiting values, auxiliary circuits	
- rated operational voltage $U_e$ (V)	DC 24 to 250V; AC 24 to 690V
- rated insulation voltage: $U_i$ (V)	690V
- rated operational current: $I_e$ (A)	AC: 0.11-5A; DC: 0.05-2.5A
- kind of current	AC/DC
- rated frequency: (Hz)	50/60Hz
- number of circuits	2
- number and kind of contact elements	1 NO and 1 NC
- rated uninterrupted current: $I_u$ (A)	5
- utilization category: (AC, DC, current and voltage)	AC 15; DC 13
Short-circuit characteristic	
- Rated conditional short-circuit current (kA)	1
- kind of protective device	Fuse 6A gG
Releases :	
1) shunt release	MX
2) Over-current release	/
a) instantaneous	Magnetic : 12A to 1610A Min setting : $6 \cdot I_n = 12$ to 690A Max setting : $14 \cdot I_n = 28$ to 1610A
b) definite time delay	N/A
c) inverse time delay	N/A
3) Undervoltage release (for opening)	MN
Characteristics :	
1) Shunt release and undervoltage release (for opening)	MX/MN
- rated control circuit voltage: $U_c$ ( nature, frequency, V)	MN/MX: DC 24 to 125V; AC 24 to 480V
- kind of current	AC
- rated frequency: (if AC)	50/60Hz
2) Over-current release	N/A
- rated current	Magnetic : 12A to 1610A Min setting : $6 \cdot I_n = 12$ to 690 A Max setting : $14 \cdot I_n = 28$ to 1610 A
- kind of current	AC
- rated frequency: (if AC)	50/60Hz
- current setting (or range of settings)	See table trip unit settings below
- time settings (or range of settings)	N/A
Supply Connection	Reversible circuit-breaker



LCIE – Laboratoire Central des Industries Electriques  
33, avenue du Général Leclerc – BP8  
FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



Date: 06/12/2017

Signature: **Jean-François BRUEL**  
Certification Officer

## ANNEX (continued)

Trip unit settings:

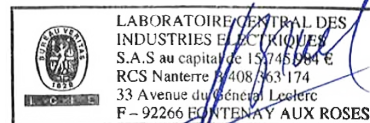
In (A)	6In(A)	7In(A)	8In(A)	9In(A)	10In(A)	11In(A)	12In(A)	13In(A)	14In (A)
2	12	14	16	18	20	22	24	26	28
3,5	21	24,5	28	31,5	35	38,5	42	45,5	49
7	42	49	56	63	70	77	84	91	98
12,5	75	87,5	100	112,5	125	137,5	150	162,5	175
25	150	175	200	225	250	275	300	325	350
50	300	350	400	450	500	550	600	650	700
80	480	560	640	720	800	880	960	1040	1120
115	690	805	920	1035	1150	1265	1380	1495	1610

AC1-AC3 performances :

In (A)	AC1 I <sub>th</sub> =I <sub>n</sub>	AC3	
		I <sub>e</sub> à 415V	I <sub>e</sub> à 690V
2A	2A	2A	2A
3,5A	3,5A	3,5A	3,5A
7A	7A	7A	7A
12,5A	12,5A	12,5A	12,5A
25A	25A	25A	25A
50A	50A	50A	50A
80A	80A	80A	80A
115A	115A	100A	80A



LCIE – Laboratoire Central des Industries Electriques  
 33, avenue du Général Leclerc – BP8  
 FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



Signature: **Jean-François BRUEL**  
 Certification Officer

Date: 06/12/2017

**ANNEX (continued)**
**Models: TeSys GV4P, TeSys GV4PE and GV4PEM**

Actuation means: GV4PE: Toggle, GV4P: Rotary Handle

Note: Overload relay function incorporated (according to IEC 60947-4-1)

Classification	
Utilization category: (A or B)	A
Interruption medium: (air, vacuum, gas Break)	Air
Design: (open construction, moulded case)	Moulded case
Method of controlling the operation mechanism	Independent manual
Suitability for insulation: (suitable, not -suitable)	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or Plug in
Degree of protection: (IP code)	IP20
Type of release	Electronic
Electromagnetic compatibility (EMC)	
Environment A or B	A
Circuit-breaker for use in IT systems	Yes
Rated and limiting values, main circuit	
- rated operational voltage: $U_e$ (V)	690V
- rated insulation voltage: $U_i$ (V)	800V
- rated impulse withstand voltage: $U_{imp}$ (kV)	8kV
- rated operational current: $I_e$ (A)	From 2A to 115A
- kind of current	AC
- conventional free air thermal current: $I_{th}$ (A)	115A
- number of poles	3
- rated frequency: (Hz)	50/60Hz
- uninterrupted duty: $I_u$ (A)	From 2A to 115A

Short-circuit characteristic:

 rated ultimate short-circuit breaking capacity:  $I_{cu}$  (kA)

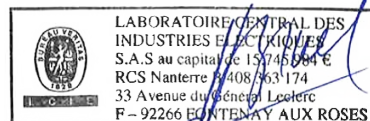
	Type (3poles)		
	B	N	S
230/240V	50	100	120
400/415V	25	50	100
440V	20	50	70
500V	10	25	30
525V	-	15	18
690V	-	8	10

 rated service short-circuit breaking capacity:  $I_{cs}$  (kA)

	Type (3poles)		
	B	N	S
230/240V	50	100	120
400/415V	25	50	100
440V	20	50	70
500V	10	25	30
525V	-	15	18
690V	-	2	2,5



LCIE – Laboratoire Central des Industries Electriques  
 33, avenue du Général Leclerc – BP8  
 FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



Date: 06/12/2017

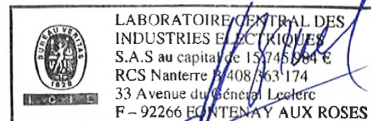
 Signature: **Jean-Francois BRUEL**  
 Certification Officer

## ANNEX (continued)

Control circuits :	
Electrical control circuits :	
- kind of current: (AC, DC)	AC/DC
- rated frequency: (Hz)	50/60Hz
- rated control circuit voltage: $U_c$ ( nature, frequency, V)	MN/MX: DC 24 to 125V; AC 24 to 480V
- rated control supply voltage: $U_s$ (nature, frequency V)	MN/MX: DC 24 to 125V; AC 24 to 480V
Auxiliary circuits :	
Rated and limiting values, auxiliary circuits	
- rated operational voltage $U_e$ (V)	DC 24 to 250V; AC 24 to 690V
- rated insulation voltage: $U_i$ (V)	690V
- rated operational current: $I_e$ (A)	AC: 0.11-5A; DC: 0.05-2.5A
- kind of current	AC/DC
- rated frequency: (Hz)	50/60Hz
- number of circuits	2
- number and kind of contact elements	1 NO and 1 NC
- rated uninterrupted current: $I_u$ (A)	5
- utilization category: (AC, DC, current and voltage)	AC 15; DC 13
Short-circuit characteristic	
- Rated conditional short-circuit current (kA)	1
- kind of protective device	Fuse 6A gG
Releases	
1) shunt release	MX
2) Over-current release	/
a) instantaneous	Magnetic : 12A to 1610A Min setting : $6 \cdot I_n = 12$ to 690 A Max setting : $14 \cdot I_n = 28$ to 1610 A
b) definite time delay	N/A
c) inverse time delay	N/A
3) Undervoltage release (for opening)	MN
Characteristics	
1) Shunt release and undervoltage release (for opening)	MX/MN
- rated control circuit voltage: $U_c$ ( nature, frequency, V)	MN/MX: DC 24 to 125; AC 24 to 480
- kind of current	AC
- rated frequency: (if AC)	50/60Hz
2) Over-current release	N/A
- rated current	Magnetic : 12A to 1610A Min setting : $6 \cdot I_n = 12$ to 690A Max setting : $14 \cdot I_n = 28$ to 1610A
- kind of current	AC
- rated frequency: (if AC)	50/60Hz
- current setting (or range of settings)	See table trip unit settings below
- time settings (or range of settings)	N/A
Supply Connection	Reversible circuit-breaker



LCIE – Laboratoire Central des Industries Electriques  
33, avenue du Général Leclerc – BP8  
FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



Date: 06/12/2017

Signature: **Jean-François BRUEL**  
Certification Officer

## ANNEX (end)

Trip unit settings:

In (A)	6In(A)	7In(A)	8In(A)	9In(A)	10In(A)	11In(A)	12In(A)	13In(A)	14In (A)
2	12	14	16	18	20	22	24	26	28
3,5	21	24,5	28	31,5	35	38,5	42	45,5	49
7	42	49	56	63	70	77	84	91	98
12,5	75	87,5	100	112,5	125	137,5	150	162,5	175
25	150	175	200	225	250	275	300	325	350
50	300	350	400	450	500	550	600	650	700
80	480	560	640	720	800	880	960	1040	1120
115	690	805	920	1035	1150	1265	1380	1495	1610

GV4PEM specific advanced function :

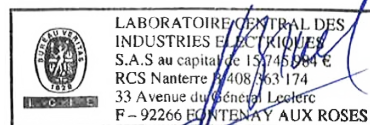
- ground fault protection
- Limit of operation of jam releases

AC1-AC3 performances :

In(A)	AC1	AC3	
		le à 415V	le à 690V
	I <sub>th</sub> =I <sub>n</sub>		
2A	2A	2A	2A
3,5A	3,5A	3,5A	3,5A
7A	7A	7A	7A
12,5A	12,5A	12,5A	12,5A
25A	25A	25A	25A
50A	50A	50A	50A
80A	80A	80A	80A
115A	115A	100A	80A



LCIE – Laboratoire Central des Industries Electriques  
33, avenue du Général Leclerc – BP8  
FR 92 266 Fontenay aux Roses Cedex  
[www.lcie.fr](http://www.lcie.fr)



LABORATOIRE CENTRAL DES  
INDUSTRIES ELECTRIQUES  
S.A.S au capital de 15.746.004 €  
RCS Nanterre 3408363174  
33 Avenue du Général Leclerc  
F-92266 FONTENAY AUX ROSES

Date: 06/12/2017

Signature: **Jean-François BRUEL**  
Certification Officer