

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Circuit Breaker**with type designation(s)
Easypact "CVS 100 to 630"

Issued to

Schneider Electric Industries SAS
GRENOBLE, France

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Rated voltage (V) up to 440****Rated current (A) 100 - 630**Issued at **Høvik** on **2019-02-15**This Certificate is valid until **2024-02-14**.DNV GL local station: **Marseille**for **DNV GL**Approval Engineer: **Nicolay Horn****Marta Alonso Pontes**
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-030347-1**
Certificate No: **TAE00003CK**

Name and place of manufacturer

Schneider (Beijin) Medium & Low Voltage Co. Ltd
Beijing
China

Product description

I) Circuit breaker (moulded case)

	CVS100/CVS100 ViGI				CVS160/CVS160 ViGI			
Rated insulation voltage AC (V)	690				690			
Rated impulse voltage AC (V)	8 kV				8 kV			
Rated operational voltage AC(V)	440				440			
Rated Current (A)	16-32				100-160			
Rated Frequency Hz	50 / 60				50 / 60			
Rated Short-circ. Service Break. cap. (KA) Ics	B	F	N	H	B	F	N	H
220 /240V	40	70	90	100	40	70	90	100
415V	25	36	50	70	25	36	50	70
440V	20	36	50	65	20	36	50	65
Rated Short-circ. Service Break. cap. (KA) Icu								
220 /240V	40	70	90	100	40	70	90	100
415V	25	36	50	70	25	36	50	70
440V	15	18	38	49	15	18	38	49
Utilization category	A							

	CVS250/CVS250 ViGI				CVS400/CVS400 ViGI			CVS400/CVS630 ViGI		
Rated insulation voltage AC (V)	690				690			690		
Rated impulse voltage AC (V)	8 kV				8 kV			8 kV		
Rated operational voltage AC(V)	440				440			440		
Rated Current (A)	200-250				320-400			500-630		
Rated Frequency Hz	50 / 60				50 / 60			50 / 60		
Rated Short-circ. Ultimate Break. cap. (KA) Icu	B	F	N	H	B	F	N	B	F	N
440V	40	70	90	100	40	70	100	40	70	100
415V	25	36	50	70	36	50	70	36	50	70
220 /240V	20	36	50	65	30	42	65	30	42	65
Rated Short-circ. Service Break. cap. (KA) Ics										
440V	40	70	90	100	40	70	100	40	70	100
415V	25	36	50	70	36	50	70	36	50	70
220 / 240V	15	18	38	49	23	32	49	23	32	49
Utilization category	A									

II) Switch-disconnectors

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	CVS100NA	CVS160NA	CVS250NA	CVS400NA	CVS630NA
Conventional thermal current (A)	100	160	250	400	630
Operation current Ie(A) AC 50/60 Hz	AC22A / AC23A				
220/240 V	100	160	250	400	630
380/415 V	100	160	250	400	630
440 V	100	160	250	400	630
Short circuit making capacity Icm (kA) Alone	2.6	3.6	4.9	7.1	8.5
Protected by up- stream circuit breaker	75	75	75	105	105
Short circuit withstand current Icw (A) 1s	1800	2500	3500	5000	6000
3s	1800	2500	3500	5000	6000
20s	690	960	1350	1930	2320

Application/Limitation

The manufacturer's installation instructions to be observed.

Suitable for use in an IT system with a capacity of 1.2 times the maximum trip current at up to 440 V AC.

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 60947-2 (including Annex H), sequence 1 and 2 and IEC 60947-3. Inclination-, vibration-, cold-, dry heat-, damp heat and EMC tests.

Environmental conditions: Temperature D, Humidity B, Vibration A, EMC A

Temperature:	D
Humidity:	B
Vibration:	A
EMC:	A
Ingress protection:	IP20

Marking of product

Schneider Electric – Easypanv CVS – type designation – manufacturing place (code date)

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routines (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.



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END OF CERTIFICATE