

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Circuit Breaker**with type designation(s)
EasyPact MVS

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 for IT systems, up to 690 for TNS (See application / limitation)****Rated current (A) Up to 4000**Issued at **Høvik** on **2018-11-19**This Certificate is valid until **2023-11-18**.for **DNV GL**DNV GL local station: **Marseille**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: **262.1-029421-1**
Certificate No: **TAE000037A**

Manufactured by

Schneider Shanghai Power Distribution Electric App. Co Ltd,
Shanghai, China

Product description

Air Circuit Breaker MVS 400-1600

	MVS04N	MVS06N	MVS08N	MVS10N	MVS12N	MVS16N
Number of poles	3-4	3-4	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000	1000
Rated operational voltage AC(V)	440	440	440	440	440	440
Rated Current (A)	400	630	800	1000	1250	1600
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60	50-60
Rated Short-circuit Service Breaking cap. Icu (kA)						
240V	50	50	50	50	50	50
440V	50	50	50	50	50	50
690V	-	-	-	-	-	-
Rated Ultimate short- circuit Breaking cap. Ics (kA)						
240V	50	50	50	50	50	50
440V	50	50	50	50	50	50
690V	-	-	-	-	-	-
Rated short-time withstand current cap. 0.5 s Icw (kA)						
220/440	35	35	35	35	35	35
Utilization category	B	B	B	B	B	B

Air Circuit Breaker MVS 630-4000

	MVS06H	MVS08H	MVS10H	MVS12H	MVS16H
Number of poles	3-4	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC(V)	690	690	690	690	690
Rated Current (A)	630	800	1000	1250	1600
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Rated Short-circuit Service Breaking cap. Icu (kA)					
240V	65	65	65	65	65
440V	65	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*	(50)*
Rated Ultimate short- circuit Breaking cap. Ics (kA)					
240V	65	65	65	65	65
440V	65	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*	(50)*
Rated short-time withstand current cap. 1 s Icw (kA)					
220/440	65	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*	(50)*
Utilization category	B	B	B	B	B

*See Application / limitation

	MVS20H	MVS25H	MVS32H	MVS40H
Number of poles	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	1000	1000	1000	1000
Rated operational voltage AC(V)	690	690	690	690
Rated Current (A)	2000	2500	3200	4000
Rated Frequency (Hz)				
Rated Short-circuit Service Breaking cap. Icu (kA)				
240V	65	65	65	65
440V	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*
Rated Ultimate short- circuit Breaking cap. Ics (kA)				
240V	65	65	65	65
440V	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*
Rated short-time withstand current cap. 1 s Icw (kA)				
220/440	65	65	65	65
690V*	(50)*	(50)*	(50)*	(50)*
Utilization category	B	B	B	B

*See Application / limitation

Switch disconnecter MVS 400-1600

	MVS06N	MVS08N	MVS10N	MVS12N	MVS16N
Number of poles	3-4	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC(V)	690	690	690	690	690
Rated Current (A)	630	800	1000	1250	1600
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Utilization category	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A
Rated short time withstand current Icw	35kA/0.5s	35kA/0.5s	35kA/0.5s	35kA/0.5s	35kA/0.5s
Rated short time making capacity Icm	75kA	75kA	75kA	75kA	75kA

Switch disconnecter MVS 630-4000

	MVS20H	MVS25H	MVS32H	MVS40H
Number of poles	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	1000	1000	1000	1000
Rated operational voltage AC(V)	690	690	690	690
Rated Current (A)	630	800	1000	1250
Rated Frequency (Hz)	50-60	50-60	50-60	50-60
Utilization category	AC-23A	AC-23A	AC-23A	AC-23A
Rated short time withstand current Icw	65kA / 1s	65kA / 1s	65kA / 1s	65kA / 1s
Rated short time making capacity Icm	143kA	143kA	143kA	143kA

Application/Limitation

Suitable for use in an IT system up to 440 V AC and earthed systems (TT/ TN) up to 690 V. Can not be used in an IT system for voltages above 440 V AC.

Type Approval documentation

Marking of product

Schneider Electric –MVS Circuit-Breaker–Type designation.

Test carried out

Type tests according to: IEC 60947-2 including Annex H, vibration test, dry heat test, damp heat test, salt mist test and EMC test. Switch disconnector type tested in accordance with IEC 60947-3

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 RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensure traceability between manufacturer's product marking and the DNVGL Type Approval Certificate

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE