

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Motor Starter**

with type designation(s)
GV2-ME, GV2-P and GV2-L

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 :

Motor- protected circuit breaker including overload release, thermal-magnetic or magnetic release. Accessories: Under voltage trip, shunt trip, voltage trip, analogue modules, auxiliary contacts

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Rated voltage (V) 690

Rated current (A) 0.16 - 32

Frequency (Hz) 50 - 60

Issued at **Høvik** on **2017-06-21**

This Certificate is valid until **2022-06-30**.

DNV GL local station: **Marseille**

for **DNV GL**

Approval Engineer: **Nicolay Horn**

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Andreas Kristoffersen
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: **262.1-003417-10**
Certificate No: **TAE0000202**

Name and place of manufacturer

Schneider Electric France
6-8 rue de Bailly – B.P. 97872
21078 Dijon Cedex, France

Schneider Thailand Ltd
540 Soi 9, Bangpoo Industry Estate, Sukhumvit
Road, Muang District
Samutprakarn 102801, Thailand

Product description

Motor starters (circuit breaker/ contactor combination) type:

GV2-ME01, GV2-ME02, GV2-ME03, GV2-ME04, GV2-ME05, GV2-ME06, GV2-ME07,
GV2-ME08, GV2-ME10, GV2-ME14, GV2-ME16, GV2-ME20, GV2-ME21, GV2-ME22 and GV2-ME32.

GV2-P01, GV2-P02, GV2-P03, GV2-P04, GV2-P05, GV2-P06, GV2-P07, GV2-P08, GV2-P10, GV2-P14,
GV2-P16, GV2-P20, GV2-P21, GV2-P22 and GVP32.

GV2-L03, GV2-L04, GV2-L05, GV2-L06, GV2-L07, GV2-L08, GV2-L10, GV2-L14, GV2-L16, GV2-L20,
GV2-L22 and GV2-L32.

Types:	GV2-ME01	GV2-ME02	GV2-ME03	GV2-ME04	GV2-ME05	GV2-ME06
Rated operational voltage $U_e(V)$:	690	690	690	690	690	690
Rated insulation voltage $U_i(V)$:	690	690	690	690	690	690
Rated current (A):	0.16	0.25	0.4	0.63	1.0	1.6
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	0.1-0.16	0.16-0.25	0.25-0.4	0.4-0.63	0.63-1.0	1.0-1.6
Rated ultimate break. cap. $I_{cu}(kA)$						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	100	100	100
Rated service breaking cap. $I_{cs}(kA)$						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	100	100	100
Utilisation category:	A	A	A	A	A	A

Types:	GV2-ME07	GV2-ME08	GV2-ME10	GV2-ME14	GV2-ME16	GV2-ME20
Rated operational voltage $U_e(V)$:	690	690	690	690	690	690
Rated insulation voltage $U_i(V)$:	690	690	690	690	690	690
Rated current (A):	2.5	4	6.3	10	14	18
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	1.6-2.5	2.5-4	4-6.3	6-10	9-14	13-18
Rated ultimate break. cap. $I_{cu}(kA)$						
415 V	100	100	100	100	15	15
500 V	100	100	50	10	6	6
690 V	3	3	3	3	3	3
Rated service breaking						

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Types:	GV2-ME07	GV2-ME08	GV2-ME10	GV2-ME14	GV2-ME16	GV2-ME20
cap. Ics (kA)						
415 V	100	100	100	100	7.5	7.5
500 V	100	100	50	10	4.5	4.5
690 V	2.25	2.25	2.25	2.25	2.25	2.25
Utilisation category:	A	A	A	A	A	A

Types:	GV2-ME21	GV2-ME22	GV2-ME32	GV2-P01	GV2-P02	GV2-P03
Rated operational voltage Ue(V):	690	690	690	690	690	690
Rated insulation voltage Ui (V):	690	690	690	690	690	690
Rated current (A):	23	25	32	0.16	0.25	0.4
Rated frequency Hz:	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	17-23	20-25	24-32	0.1-0.16	0.16-0.25	0.25-0.40
Rated ultimate break. cap. I cu (kA)						
415 V	15	15	10	100	100	100
500 V	4	4	4	100	100	100
690 V	3	3	3	100	100	100
Rated service breaking cap. Ics (kA)						
415 V	6	6	5	100	100	100
500 V	3	3	3	100	100	100
690 V	2.25	2.25	2.25	100	100	100
Utilisation category:	A	A	A	A	A	A

Types:	GV2-P04	GV2-P05	GV2-P06	GV2-P07	GV2-P08	GV2-P10
Rated operational voltage Ue(V):	690	690	690	690	690	690
Rated insulation voltage Ui (V):	690	690	690	690	690	690
Rated current (A):	0.63	1	1,6	2,5	4	6,3
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	0.40-0.63	0,63-1	1-1,6	1,6-2,5	2,5-4	4-6,3
Rated ultimate break. cap. Icu (kA)						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	8	8	6
Rated service breaking cap. Ics (kA)						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	8	8	6
Utilisation category:	A	A	A	A	A	A

Types:	GV2-P14	GV2-P16	GV2-P20	GV2-P21	GV2-P22	GV2-P32
Rated operational voltage Ue(V):	690	690	690	690	690	690
Rated insulation voltage Ui (V):	690	690	690	690	690	690

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Types:	GV2-P14	GV2-P16	GV2-P20	GV2-P21	GV2-P22	GV2-P32
Rated current (A):	10	14	18	23	25	32
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	6-10	9-14	13-18	17-23	20-25	24-32
Rated ultimate break. cap. Icu (kA)						
415 V	50	50	50	50	50	50
500 V	50	50	10	10	10	10
690 V	6	6	4	4	4	4
Rated service breaking cap. Ics (kA)						
415 V	100	100	25	25	25	25
500 V	50	31,5	7,5	7,5	7,5	7,5
690 V	6	6	4	4	4	4
Utilisation category:	A	A	A	A	A	A

Types:	GV2-L03	GV2-L04	GV2L05	GV2-L06	GV2-L07	GV2-L08
Rated operational voltage Ue(V):	690	690	690	690	690	690
Rated insulation voltage Ui (V):	690	690	690	690	690	690
Rated current (A):	0,63	1	1,6	2,5	4	6,3
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	-	-	-	-	-	-
Rated ultimate break. cap. Icu (kA)						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	100	4	4
Rated service breaking cap. Ics (kA)						
415 V	100	100	100	100	100	100
500 V	100	100	100	100	100	100
690 V	100	100	100	100	4	4
Utilisation category:	A	A	A	A	A	A

Types:	GV2-L10	GV2-L14	GV2-L16	GV2-L20	GV2-L22	GV2-L32
Rated operational voltage Ue(V):	690	690	690	690	690	690
Rated insulation voltage Ui (V):	690	690	690	690	690	690
Rated current (A):	8	10	14	18	25	32
Rated frequency (Hz):	50/60	50/60	50/60	50/60	50/60	50/60
Overload release setting range (A):	-	-	-	-	-	-
Rated ultimate break. cap. Icu (kA)						
415 V	100	100	100	50	50	35
500 V	100	100	100	10	10	10
690 V	4	4	4	4	4	4
Rated service breaking cap. Ics (kA)						

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Types:	GV2-L10	GV2-L14	GV2-L16	GV2-L20	GV2-L22	GV2-L32
415 V	100	100	100	25	25	17,5
500 V	100	100	100	7,5	7,5	7,5
690 V	4	4	4	4	4	4
Utilisation category:	A	A	A	A	A	A

Accessories: Under voltage trip, shunt trip, voltage trip, contact modules, auxiliary contacts

Application/Limitation

Motor- protected circuit breaker including overload release, thermal magnetic release.
Applicable for use in an IT net with a voltage up to 690 V.

Type Approval documentation

Tests carried out

Type tests according to IEC 60947-1, IEC 60947-2 (4th ed. + A1 & A2) including Annex H, IEC60 947-4-1 (3rd ed. + A2), sequence 1, 2 & 3, and environmental tests.

Marking of product

Telemecanique - Schneider Electric - Type designation.

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.

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

END OF CERTIFICATE