



**TYPE APPROVAL CERTIFICATE**  
**N. ELE038410CS/002**

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	<b>Manual Motor Starter</b>
<i>Type</i>	<b>GH3VSB; GH3VSBK; GH3VHB; GH3VHBK</b>
<i>Applicant</i>	<b>GHISALBA SpA Via Tevere, 15 10098 Cascine Vica – Rivoli (TO) ITALY</b>
<i>Manufacturer</i>	<b>FUJI ELECTRIC FA COMPONENTS &amp; SYSTEMS Co. LTD 5-45, Minami 1 – chome, Konosu-shi, Saitama-Ken 369-0192 JAPAN</b>
<i>Testing Standards</i>	<b>Rules for Classification of Ships- Part C – Machinery Systems and Fire protection- Ch. 3 Sect. 6 Table 1.</b>

Issued in Genova on April 21, 2011. This certificate is valid until April 21, 2016

*Valerio Bonanni*

RINA

*Valerio Bonanni*

Genova, April 21, 2011

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### Product Description

Manual motor starters type GH3VSB, GH3RVSBK, GH3VHB and GH3VHBK and accessories type GHOWI, GHOKI, GHOWU, GHOWKU, GHOTKUAB and GHOF

### Technical Data

- Rated Voltage (Ue) 220Vac to 525 Vac
- Ambient air temperature: 45°
- Rated current (In): 10 A up to 63A.
- Rated Frequency: 50 / 60 Hz
- Utilization Category: A

- Rated short-circuit capacity:

Rated service short circuit breaking capacity (Ics)  
Rated ultimate short circuit breaking capacity (Icu)  
Rated short circuit making capacity (Icm)

### GH3VSB / GH3RVSBK

Ue (V)	Ics (kA)	Icu (kA)	Icm (kA)
220 / 260	100 (10A to 16 A) 38 (20A to 63A)	100 (10A to 16A) 50 (20A to 63A)	220 (10A to 16A) 105 (20A to 63A)
400 / 415	00 (10A) 19 (13A to 63A)	100 (10A) 25 (13A to 63A)	220 (10A) 52.5 (13A to 63A)
460	12 (10A) 8 (13A to 63A)	15 (10A) 10 (13A to 63A)	30 (10A) 17 (13A to 63A)
500 / 525	4	5	7.65

### GH3VHB / GH3VHBK

Ue (V)	Ics (kA)	Icu (kA)	Icm (kA)
220 / 260	100	100	220
400 / 415	100 (10A) 38 (13A to 63A)	100 (10A) 50 (13A to 63A)	220 (0.16A to 13A) 105 (13A to 63A)
460	25	35	73.5
500 / 525	9 (10A to 16A) 8 (20A to 63A)	12 (10A to 16A) 10 (20A to 63A)	24 (10A to 16A) 17 (20A to 63A)

### Documents:

POWER CONTROLS Test Report n. LBM91U03.OVI issued on 27.11.2001  
LOVAG Test Report n. L01A-02.01 issued on 31/07/2002  
LOVAG Test Report n. L01A-02.12 issued on 31/10.2002  
EMIT-LAS Test Report n. 0017-PG-01E and n. 0073-PG-02E issued on 10.07.2002.

Genova, April 21, 2011

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