

RSWT centrifugal pump soft starter

Switches

RSWT Series

Centrifugal pump soft starter

The global demand for water is expected to see a consistent growth over the next years. As a result of the rising living standard and the growing population across the globe, there is more demand for water facilities and hence pumps. Achieving an optimal control during starting/stopping of a pump can be quite challenging and, unless proper solutions are adopted, a number of undesired effects can be generated such as water hammering, cavitation and voltage disturbances.



Carlo Gavazzi's RSWT series is an intelligent soft starting solution dedicated to centrifugal pumps. The RSWT algorithm is self-learning in order to simplify the user experience and reduce the commissioning time.

Additionally, the self-learning function ensures optimal pump starts and stops even under different load conditions.



Self-learning soft starter

An innovative and easy to use solution for centrifugal pumps

- Easy to use with 1 knob setting for pump start & stop
- Self-learning algorithm
- Integrated diagnostic functions
- Trip Class 10 overload protection
- Multi-range operational voltage
- Minimises commissioning time
- More space in the electrical panel
- Increased pump protection



RSWT: Simply innovative

Self-learning algorithm

The RSWT soft starter series integrates a self-learning algorithm that optimises the ramp-up and ramp-down of centrifugal pumps at every start and stop.

This results in smoother pump starts and stops thereby reducing water hammering and cavitation effects during ramp-up and ramp-down.



Easy to use

The RSWT..V00 version only requires 1-knob setting for the ramp-up and ramp-down time making this product an ideal replacement to electromechanical contactors or star-delta starters.

The RSWT...V10 versions require just 3 knobs for ramp-up, ramp-down and full load current (FLC) adjustment required for a proper overload protection.

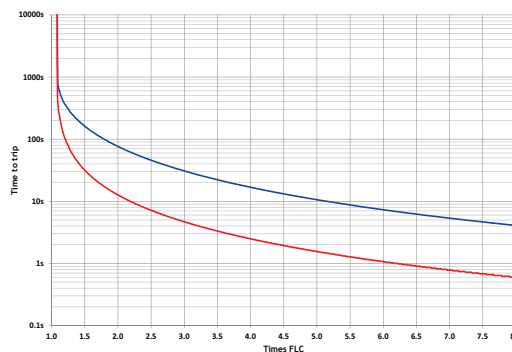


RSWT..V10

RSWT...V00

Increased pump protection

Highlighting abnormal conditions is highly important in order to protect pumps from irreversible damage. RSWT...V10 series features a Class 10 electronic overload protection function together with additional monitoring functions such as phase sequence, phase loss and voltage unbalance. All this results in a more cost effective solution whilst saving panel space.



Selection Guide

| Operational voltage (Ue) | Rated operational current (Ie) | Supply voltage (Us) | Control voltage (Uc) | Motor power 220V (Pe) | Motor power 400V (Pe) | No overload protection | Overload protection |
|--------------------------|--------------------------------|---------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--------------------------------|
| 220 - 400 VAC | 12A | Internally supplied | 110 - 400 VAC 24VAC/DC | 3kW/3HP | 5.5kW/5HP | RSWT4012E0V00 RSWT4012F0V00 | RSWT4012E0V10 RSWT4012F0V10 |
| | 16A | | 110 - 400 VAC 24VAC/DC | 4kW/5HP | 7.5kW/7.5HP | RSWT4016E0V00 RSWT4016F0V00 | RSWT4016E0V10 RSWT4016F0V10 |
| | 25A | | 110 - 400 VAC 24VAC/DC | 5.5kW/7.5HP | 11kW/10HP | RSWT4025E0V00 RSWT4025F0V00 | RSWT4025E0V10 RSWT4025F0V10 |

| Operational voltage (Ue) | Rated operational current (Ie) | Supply voltage (Us) | Control voltage (Uc) | Motor power 220V (Pe) | Motor power 400V (Pe) | Motor power 600V (Pe) | Overload protection |
|--------------------------|--------------------------------|---------------------------|---------------------------|-----------------------|-----------------------|-----------------------|--------------------------------|
| 220 - 600 VAC | 12A | 100 - 240 VAC 24VAC/DC | 100 - 240 VAC 24VAC/DC | 3kW/3HP | 5.5kW/5HP | 9kW/10HP | RSWT6012GGV10 RSWT6012FFV10 |
| | 16A | 100 - 240 VAC 24VAC/DC | 100 - 240 VAC 24VAC/DC | 4kW/5HP | 7.5kW/7.5HP | 11kW/15HP | RSWT6016GGV10 RSWT6016FFV10 |
| | 25A | 100 - 240 VAC 24VAC/DC | 100 - 240 VAC 24VAC/DC | 5.5kW/7.5HP | 11kW/10HP | 20kW/20HP | RSWT6025GGV10 RSWT6025FFV10 |

OUR SALES NETWORK IN EUROPE

AUSTRIA - Carlo Gavazzi GmbH
Ketzergrasse 374, A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 10 53
office@carlogavazzi.at

BELGIUM - Carlo Gavazzi NV/SA
Mechelsesteenweg 311, B-1800 Vilvoorde
Tel: +32 2 257 4120
Fax: +32 2 257 41 25
sales@carlogavazzi.be

DENMARK - Carlo Gavazzi Handel A/S
Over Hadstenvej 40, DK-8370 Hadsten
Tel: +45 89 60 6100
Fax: +45 86 98 15 30
handel@gavazzi.dk

FINLAND - Carlo Gavazzi OY AB
Petaksentie 2-4, FI-00630 Helsinki
Tel: +358 9 756 2000
Fax: +358 9 756 20010
myynti@gavazzi.fi

FRANCE - Carlo Gavazzi Sarl
Zac de Paris Nord II, 69, rue de la Belle
Etoile, F-95956 Roissy CDG Cedex
Tel: +33 1 49 38 98 60
Fax: +33 1 48 63 27 43
french.team@carlogavazzi.fr

GERMANY - Carlo Gavazzi GmbH
Pfnorstr. 10-14
D-64293 Darmstadt
Tel: +49 6151 81000
Fax: +49 6151 81 00 40
info@gavazzi.de

GREAT BRITAIN - Carlo Gavazzi UK Ltd
4.4 Frimley Business Park,
Frimley, Camberley, Surrey GU16 7SG
Tel: +44 1 276 854 110
Fax: +44 1 276 682 140
sales@carlogavazzi.co.uk

ITALY - Carlo Gavazzi SpA
Via Milano 13, I-20020 Lainate
Tel: +39 02 931 761
Fax: +39 02 931 763 01
info@gavazziacbu.it

NETHERLANDS - Carlo Gavazzi BV
Wijkermeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 9345
Fax: +31 251 22 60 55
info@carlogavazzi.nl

NORWAY - Carlo Gavazzi AS
Melkeveien 13, N-3919 Porsgrunn
Tel: +47 35 93 0800
Fax: +47 35 93 08 01
post@gavazzi.no

PORTUGAL - Carlo Gavazzi Lda
Rua dos Jerónimos 38-B,
P-1400-212 Lisboa
Tel: +351 21 361 7060
Fax: +351 21 362 13 73
carlogavazzi@carlogavazzi.pt

SPAIN - Carlo Gavazzi SA
Avda. Iparraguirre, 80-82,
E-48940 Leioa (Bizkaia)
Tel: +34 94 480 4037
Fax: +34 94 480 10 61
gavazzi@gavazzi.es

SWEDEN - Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 11 77
info@carlogavazzi.se

SWITZERLAND - Carlo Gavazzi AG
Verkauf Schweiz/Vente Suisse
Sumpfstrasse 3,
CH-6312 Steinhausen
Tel: +41 41 747 4535
Fax: +41 41 740 45 40
info@carlogavazzi.ch

OUR SALES NETWORK IN THE AMERICAS

USA - Carlo Gavazzi Inc.
750 Hastings Lane,
Buffalo Grove, IL 60089, USA
Tel: +1 847 465 6100
Fax: +1 847 465 7373
sales@carlogavazzi.com

CANADA - Carlo Gavazzi Inc.
2660 Meadowvale Boulevard,
Mississauga, ON L5N 6M6, Canada
Tel: +1 905 542 0979
Fax: +1 905 542 22 48
gavazzi@carlogavazzi.com

MEXICO - Carlo Gavazzi Mexico S.A. de C.V.
Calle La Montaña no. 28, Fracc. Los Pastores
Naucalpan de Juárez, EDOMEX CP 53340
Tel & Fax: +52.55.5373.7042
mexicosales@carlogavazzi.com

BRAZIL - Carlo Gavazzi Automação Ltda.
Av. Brig. Luís Antônio, 3067
Jd. Paulista São Paulo
CEP 01401-000
Tel: +55 11 3052 0832
Fax: +55 11 3057 1753
info@carlogavazzi.com.br

OUR SALES NETWORK IN ASIA AND PACIFIC

SINGAPORE - Carlo Gavazzi Automation
Singapore Pte. Ltd.
61 Tai Seng Avenue
#05-06 UE Print Media Hub
Singapore 534167
Tel: +65 67 466 990
Fax: +65 67 461 980
info@carlogavazzi.com.sg

MALAYSIA - Carlo Gavazzi Automation
(M) SDN. BHD.
D12-06-G, Block D12,
Pusat Perdagangan Dana 1,
Jalan PJU 1A/46, 47301 Petaling Jaya,
Selangor, Malaysia.
Tel: +60 3 7842 7299
Fax: +60 3 7842 7399
sales@gavazzi-asia.com

CHINA - Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F,
News Building, Block 1,1002
Middle Shennan Zhong Road,
Shenzhen, China
Tel: +86 755 83699500
Fax: +86 755 83699300
sales@carlogavazzi.cn

HONG KONG - Carlo Gavazzi
Automation Hong Kong Ltd.
Unit 3 12/F Crown Industrial Bldg.,
106 How Ming St., Kwun Tong,
Kowloon, Hong Kong
Tel: +852 23041228
Fax: +852 23443689

OUR COMPETENCE CENTRES AND PRODUCTION SITES

DENMARK - Carlo Gavazzi Industri A/S
Hadsten

MALTA - Carlo Gavazzi Ltd
Zejtun

ITALY - Carlo Gavazzi Controls SpA
Belluno

LITHUANIA - Uab Carlo Gavazzi Industri
Kaunas

CHINA - Carlo Gavazzi Automation
(Kunshan) Co., Ltd.
Kunshan

HEADQUARTERS

Carlo Gavazzi Automation SpA
Via Milano, 13 - I-20020
Lainate (MI) - ITALY
Tel: +39 02 931 761
info@gavazziautomation.com



CARLO GAVAZZI
Automation Components

Energy to Components!

www.gavazziautomation.com

