

PFS 503

POWER FAIL SIMULATOR



FOR TESTS ACCORDING TO ...

- › EN 61000-6-1
- › EN 61000-6-2
- › IEC 60601-1-2:2002
- › IEC 61000-4-11
- › IEC 61000-4-29
- › IEC 61000-4-34
- › IEC 61326

PFS 503 - SIMULATOR FOR DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS

Electronic and electrical equipment may be affected by voltage dips, short interruptions and voltage variations of the power supply. Dips and interruptions are caused by faults in the public supply network, in installations or by sudden large change of load. Testing to such phenomena is required to proof that electronic and electrical equipment do not fall into unsafe operation conditions.

HIGHLIGHTS

- › **STANDALONE TEST GENERATOR**
- › **FULL-COMPLIANT THREE-PHASE SYSTEM AS PER IEC 61000-4-11, ED.2:2004 AND IEC 61000-4-34 FOR TESTING DELTA AND STAR SUPPLY SYSTEMS**
- › **6 ELECTRONIC SWITCHES, SHORT-CIRCUIT PROTECTED**
- › **RATED VOLTAGE 3X440V**
- › **UP TO 100A PER PHASE**
- › **DC SIGNAL TO CONTROL EXTERNAL VARIAC**

APPLICATION AREAS

-  INDUSTRY
-  MEDICAL
-  BROADCAST
-  TELECOM
-  RESIDENTIAL

TECHNICAL DETAILS

PFS 503 MODEL CONFIGURATION

PFS 503S1	Max. 32A current per phase
PFS 503S2	Max. 63A current per phase
PFS 503S3	Max. 100A current per phase

POWER SWITCHES

	Three-phase application
Voltage (p-p)	Max. 440V
Frequency	50/60Hz
	Single phase application
Voltage (p-n)	Max. 250V
Frequency	50/60Hz
DC voltage	Max. 250V
DC current	Max. 25/32A
Peak current	> 500A
	Switches are electronically protected against short-circuit

TRIGGERING

Automatic	Release of the events according to the settings
Repetition rate	0.01s - 999s
Duration td	0.05ms - 19,990ms
Manual	Release of a single event via function key
External	Release of a single event by an external trigger signal
Synchronization	0° - 360°, resolution 1°

OUTPUTS

3-phase application	L1, L2, L3, N and PE on the rear panel
1-phase application	L, N and PE on the front panel

MEASUREMENTS

CRO Trigger	+15V trigger signal for oscilloscope
CRO \hat{I}	Built-in current probe 10mV/A; max. 700A on each line

TEST ROUTINES

Quick Start	Immediate start, easy-to-use and fast
Standard Test routines	IEC 61000-4-11, Level 1 - Level 3 routines
User Test routines	Customer specific routines Change duration after n events Change phase angle after n events Asynchronous mode Voltage variation
Service	Service routines, Set-up

INTERFACES

Serial	RS 232, 1,200 - 19,200 Baud
Parallel	IEEE 488, addresses 1 - 30
Analog output	0-10 V DC to control an external motor variac

GENERAL DATA

Dimensions	19"/6 HU
Weight	app. 28kg; PFS 503S4 app. 35kg
Supply voltage	115V/230V; +10/-15%
Fuses	2 x T 1A

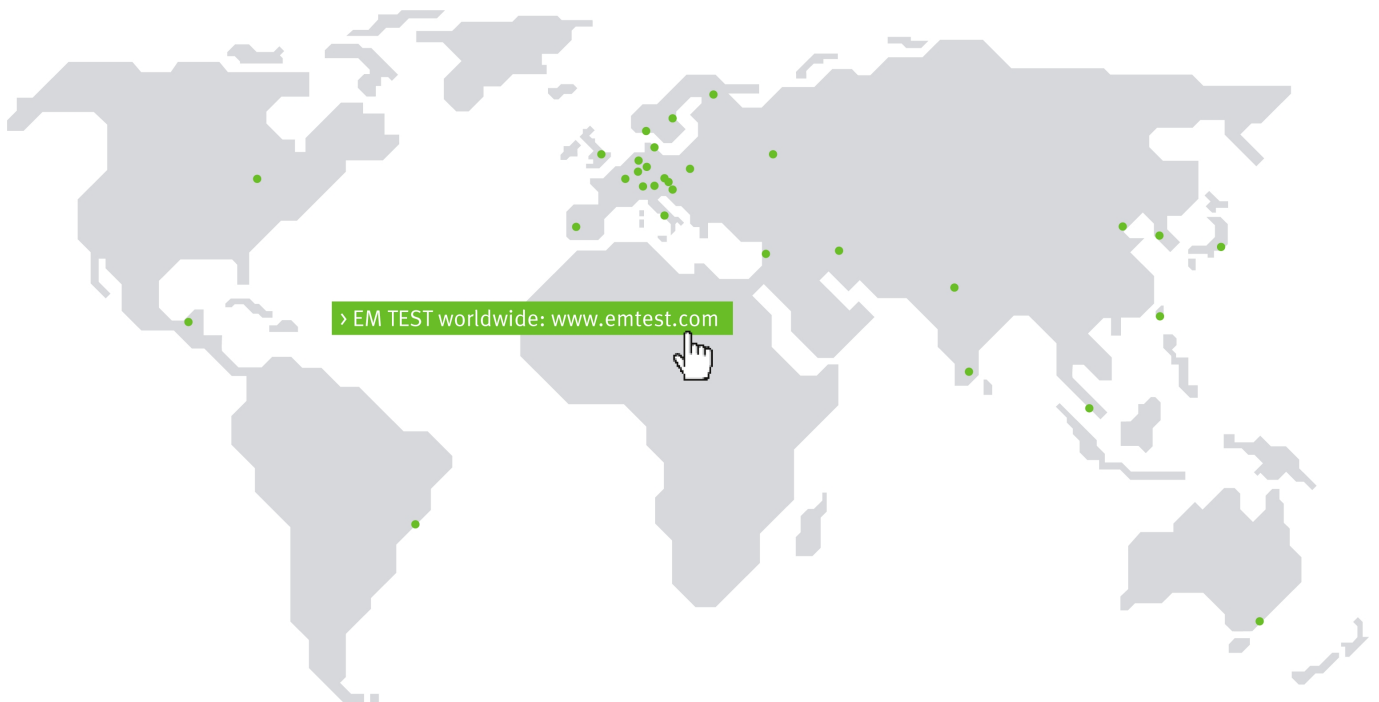
ACCESSORIES

	Motor variac with delta/star mode selection
MV3P4016DS	3 x 440V/16A, cont. adjustable
MV3P4032DS	3 x 440V/32A, cont. adjustable
MV3P4063DS	3 x 440V/63A, cont. adjustable
MV3P40100DS	3 x 440V/100A, cont. adjustable
Controls	Analog output 0 - 10V of the PFS 503 Tapped transformers with delta/star mode selection
V3P4016DS	3 x 440V/16A, taps @40%, 70% and 80% of the nominal voltage
V3P4032DS	3 x 440V/32A, taps @40%, 70% and 80% of the nominal voltage

OPTIONS

iec.control	Software to control the test, including standard library, test report facility and data conversion generator
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COMPETENCE WHEREEVER YOU ARE



CONTACT EM TEST DIRECTLY

Switzerland

EM TEST AG › Sternenhofstraße 15 › 4153 Reinach › Switzerland
 Phone +41 (0)61/7179191 › Fax +41 (0)61/7179199
 Internet: www.emtest.ch › E-mail: sales@emtest.ch

Germany

EM TEST GmbH › Lünener Straße 211 › 59174 Kamen › Deutschland
 Phone +49 (0)2307/26070-0 › Fax +49 (0)2307/17050
 Internet: www.emtest.com › E-mail: info@emtest.de

France

EM TEST FRANCE › Le Trident - Parc des Collines › Immeuble B1 - Etage 3 ›
 36, rue Paul Cézanne › 68200 Mulhouse › France
 Phone +33 (0)389 31 23 50 › Fax +33 (0)389 31 23 55
 Internet: www.emtest.fr › E-mail: info@emtest.fr

P.R. China

EM TEST Representative Office Beijing › Rm 913, Leftbank ›
 No. 68 Bei Si Huan Xi Lu › Haidian District › Beijing 100080 › P.R. China
 Phone +86 (0)10 82 67 60 27 › Fax +86 (0)10 82 67 62 38
 Internet: www.emtest.com › E-mail: emtestbj@public.bta.net.cn

Malaysia

EM TEST (M) SDN BHD › Unit B2-6, Jalan Dataran SD2 › Dataran SD2, PJU9 ›
 Bandar Sri Damansara › 52200 Kuala Lumpur › Malaysia
 Phone +60 (03)62 73 22 01 › Fax +60 (03)62 74 22 01
 Internet: www.emtest.com › E-mail: sales@emtest.com.my

Poland

EM TEST Polska › ul. Lema 33, 26-613 Radom › Polska
 Phone +48 518 64 35 12 › E-mail: info.polska@emtest.de

Information about scope of delivery, visual design and technical data correspond with the state of development at time of release.
 Technical data subject to change without further notice.