VERSION DESCRIPTION DOCUMENT (VDD)  
FOR

Version 1.4

01/09/2019

Prepared for:

Kinetics

Prepared by:

Redler Technologies Ltd.

VERSION DESCRIPTION DOCUMENT (VDD)  
FOR

Author:

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Redler Technologies Ltd. 01/09/2019

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[designator] date [Software Project Manager] date

# RECORD OF CHANGES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision Number | Release  Date | Description | Total  Pages | Author |
| 0.1 | 16/092018 | Original issue – New ATE Setup - Ver 0.0.c | 14 | J.H. |
| 0.2 | 20/09/2018 | Motor dir. test imp. - Software Ver 0.0.d | 14 | J.H. |
| 0.3 | 23/09/2018 | Current sensor - Software Ver 0.0.e | 14 | J.H. |
| 0.4 | 02/10/2018 | Set SN procedure - Software Ver 0.0.f | 14 | J.H. |
| 0.5 | 10/10/2018 | Analog Test imp. - Software Ver 0.0.g | 14 | J.H. |
| 0.6 | 11/10/2018 | Report imp. - Software Ver 0.0.h | 14 | J.H. |
| 0.7 | 15/10/2018 | Report imp. - Software Ver 0.0.i | 14 | J.H. |
| 0.8 | 21/10/2018 | Read CAN Bus data imp. - Software Ver 0.0.j | 14 | J.H. |
| 0.9 | 05/11/2018 | Report imp. - Software Ver 0.0.k | 14 | J.H. |
| 1.0 | 19/11/2018 | SN procedure imp. - Software Ver 0.0.l | 14 | J.H. |
| 1.1 | 20/11/2018 | Report imp. - Software Ver 0.0.m | 14 | J.H. |
| 1.2 | 21/11/2018 | Calibration process fix for Namer 60 – SW V0.0.n | 14 | J.H. |
| 1.3 | 03/03/2019 | The S/N loading process has changed. V0.1.d | 15 | J.H. |
| 1.4 | 01/09/2019 | Test 4.3 Req. val. changed for UUT SW Ver.5.4.9 | 15 | J.H. |
|  |  |  |  |  |

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# SCOPE

## IDENTIFICATION

RRVDD000033

## SYSTEM OVERVIEW

The Kinetics Tester Software allow to verify the full functionality of the BLDC Units bellow:

|  |  |
| --- | --- |
| Unit Name | Part Number |
| Namer 60A | RD000001 |
| Namer 30A | RD000002 |
| Warior | RD000003 |
|  |  |
|  |  |

Table 1 Kinetics Devices

## DOCUMENT OVERVIEW

This document is a Version Description Document (VDD) for the Kinetics Tester.

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# REFERENCED DOCUMENTS

## GOVERNMENT Documents

## Kinetics DOCUMENTS

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# Version description

|  |
| --- |
| Original issue – New ATE Setup - Ver 0.0.c |
| Motor dir. test imp. - Software Ver 0.0.d |
| Current sensor - Software Ver 0.0.e |
| Set SN procedure - Software Ver 0.0.f |
| Analog Test imp. - Software Ver 0.0.g |
| Report imp. - Software Ver 0.0.h |
| Report imp. - Software Ver 0.0.i |
| Read CAN Bus data imp. - Software Ver 0.0.j |
| Report imp. - Software Ver 0.0.k |
| SN procedure imp. - Software Ver 0.0.l |
| Report imp. - Software Ver 0.0.m |
| Calibration process fix for Namer 60 – SW V0.0.n |
| S/N loading process has changed - V0.1.d |
| Test 4.3 Req. val. changed for UUT SW Ver.5.4.9 |

Ver 0.0.c – Software original issue for the new Automated Test Equipment for BLDC 60A

Ver 0.0.d – We perform the motor direction test by changing the motor direction.

Changing MD [0] value from 1 to 0, make the motor turn counterclockwise, the speed limit is 14700 max. Changing MD [0] back, make the motor turn clockwise and the speed limit is 15100. We can know that the motor turns the right direction (CW).

Ver 0.0.e – Instead of measuring drawn current with an external amperemeter by reading the value and enter it on the GUI, we use a current sensor and we read the analog value and convert it into amperes.

Ver 0.0.f – The application read the UUT serial number, and set a new one if needed automatically, the technician doesn’t have to set it.

Ver 0.0.g – Increase delay between each step during analog test.

Ver 0.0.h – Report bug fixes.

Ver 0.0.i – Report bug fixes.

Ver 0.0.j – Can bus bug fixes.

Ver 0.0.k – Report bug fixes.

Ver 0.0.l – Automatically set SN procedure bug fixes

Ver 0.0.m – Report bug fixes.

Ver 0.0.n – Add of calibration process during parameters process.

Ver 0.1.d – The S/N loading process has changed.

Ver 0.1.e – Test 4.3 Req. val. differ between UUT SW Ver.5.4.9 and 5.4.8, 9200 and 8900 respectively.

## Inventory of materials released

Power Supply 28V - 65 A

CAN Interface Canalyst II

BLDC Tester

PC

RS-232 Interface

Current Meter

Motor adapted to the driver

## Inventory of CSCI contents

Kinetics V0.1.e.aliases

Kinetics V0.1.e.exe

Kinetics V0.1.e.ini

My InstallerFileList.txt

ATR\_Banner.png

ControlCAN.dll

KineticsParams.ini

~~Parameters\_CONDENSER\_INDIA\_RRPAR000018.txt~~

~~Parameters\_CONDENSER\_RRPAR000004.txt~~

Parameters\_NAMER\_30A\_RRPAR000002.txt

Parameters\_NAMER\_60A\_RRPAR000001.txt

Parameters\_WARRIOR\_RRPAR000003.txt

TestResult.ini

## Class I changes installed

N/A

## Class II Changes installed

N/A

## ADAPTATION data

N/A

## Interface compatibility

N/A

## Bibliography of reference documents

N/A

## Summary of Change

N/A

## Installation Instructions

Run \Kinetics\Volume\setup.exe and wait until the end of process then restart the computer.

A shortcut of the application will be on your desktop.

## Possible problems and known errors

N/A

# notes

N/A

## ABBREVIATIONS AND ACRONYMS

VDD – Version Description Document

Dir. – direction

Imp. - improvement

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# APPENDIX A. [ADDITIONAL DATA]