**PO2EBL\_ELECTRIC BLENDER**

**CYRS DOCUMENT**

**Version 1.7**

**Proposed**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Document Status** | **Author** |
| 1/22/2020 | 1.1 | Draft | May Alaa El-din |
| 1/23/2020 | 1.2 | Draft | Mohamed Ibrahem |
| 1/25/2020 | 1.3 | Proposed | May Alaa El-din |
| 1/31/2020 | 1.4 | Proposed | Mohamed Ibrahem |
| 02/1/2020 | 1.5 | Proposed | Mohamed Ibrahem |
| 2/3/2020 | 1.6 | Proposed | Mohamed Ibrahem |
| 2/6/2020 | 1.7 | Proposed | Mohamed Ibrahem |
|  |  |  |  |

# Document Status

# Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Version** | **Status** | **Description** | **Author** |
| 1/22/2020 | 1.1 | Draft | Initial Draft, specifying Introduction, system overview and document outline. | May Alaa El-din |
| 1/23/2020 | 1.2 | Draft | Update the draft, requirements table | Mohamed Ibrahem |
| 1/25/2020 | 1.3 | Proposed | Reviewed Document structure and updated Document status to Proposed | May Alaa El-din |
| 1/31/2020 | 1.4 | Proposed | Update the requirement according the review (safe monitoring, monitoring speed, add reference table). | Mohamed Ibrahem |
| 02/1/2020 | 1.5 | Proposed | Update the reference table, requirement table | Mohamed Ibrahem |
| 2/3/2020 | 1.6 | Proposed | Update the CYRS document versioning | Mohamed Ibrahem |
| 2/6/2020 | 1.7 | Proposed | Update the CYRS requirements according to SIQ sheet (Remove requirement 3 safely monitor) | Mohamed Ibrahem |

**Contents**

[Document Status 2](#_Toc31872405)

[Revision History 3](#_Toc31872406)

[**1 Introduction** 5](#_Toc31872407)

[1.1 Specification Definition 5](#_Toc31872408)

[1.2 Specification Objectives 5](#_Toc31872409)

[**2 System Overview:** 6](#_Toc31872410)

[2.1 Definition: 6](#_Toc31872411)

[2.2 Objective: 6](#_Toc31872412)

[2.3 Hardware 6](#_Toc31872413)

[**3 Functional Requirements:** 7](#_Toc31872414)

[3.1 Speed Levels 7](#_Toc31872415)

[3.2 Speed Controls 7](#_Toc31872416)

[3.3 Monitoring Speed 7](#_Toc31872417)

[4 Reference table: 8](#_Toc31872418)

# **1 Introduction**

This section introduces the customer requirements specification (CYRS) for the KENOVO Electric Blender.

## 1.1 Specification Definition

This specification documents the system-level requirements for the Electric Blender.

## 1.2 Specification Objectives

The objectives of this specification are to:

* Provide a system overview of the Electric Blender including definition, goals, objectives, context, and major capabilities.
* To formally specify its associated:
* Functional requirements.
* Data requirements.
* Quality requirements.
* Constraints.

# **2 System Overview:**

## 2.1 Definition:

The Electric Blender System is an appliance created by KENOVO. The electric blender system has 3 speeds that can be configured by the user with high safety to avoid system failure caused by unexpected voltage peaks.

## 2.2 Objective:

The objective of the Electric Blender System is to provide the user with a high quality home appliance with high speed configurability as well as safety monitoring.

## 2.3 Hardware

The System hardware shall be:

* The external appliance body
* Microcontroller
* DC motor
* One push button

# **3 Functional Requirements:**

|  |  |  |
| --- | --- | --- |
| **Feature** | **REQ\_ID** | **Description** |
| 3.1 Speed Levels | REQ\_PO2EBL\_CYRS\_01\_V1.3 | The system has four status three speed levels and the Off status. **#imp SW** |
| 3.2 Speed Controls | REQ\_PO2EBL\_CYRS\_02\_V1.6 | the blender shall operate between 3 different speeds (Speed1 → Speed 2 → Speed 3) triggered by a button press after the fourth press it returns back to its initial state (off).  **#imp SW #imp HW** |
| 3.3 Monitoring Speed | REQ\_PO2EBL\_CYRS\_03\_V1.3 | The system shall monitor the blender speed and turns on led and its light intensity correspond to a specific speed of the blender. **#imp SW** |

# 4 Reference table:

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Version** | **Status** | **Document** |
| 1 | 1.0 | Released | Electric Blender customer requirement |
| 2 | - | - | SIQ |