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Important information

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STANDARD SOLUTIONS GROUP

REPORT SSG 4901E

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Intelligent information and functional equipments for motor starters etc.

1 Introduction

This report supersedes “Electrotechnological Bulletin, ME2-95, dated 05-05-95”. In its original form, the report was produced with the primary intention of influencing developments and imposing requirements in the above area. It is now the turn of the next stage, which is integration into process control systems and central information systems.

1.1 Background and aim

What is most characteristic is that systems still “operate” in their own worlds or that their communication is defective. Certain suppliers have however adopted open and established protocols which has also produced greater response.

The aim of our work is to make manufacturers and suppliers understand that maintenance can produce very large advantages if on-line information is of the quality required. This needs auxiliary devices and information transmitters.

These transmitters have no direct connection with production and their performance need not be of the highest measurement class, but the requirement is that they should be cost effective and reliable since they will be used in large numbers.

On the electrical side, it is the power system, switchgear and controlgear and the motors which are of primary interest. In recent years a marked increase has also been noted as regards the need for monitoring systems in the fields of communication, harmonics, transients, stray currents, etc.

Availability in our industry is, and will remain to be, a maintenance issue even though working patterns, process media and the environment will exert an influence. How long invested material of high availability can be utilised is a matter of information, quality and operation. In view of the stringent demands now specified regarding effective staffing, information technology must be better utilised; these recommendations provide some examples of this.

2 Technology

2.1 Explanation

Where will the equipment discussed here be used?

The intelligent functional equipments with control and data bus which are discussed here shall wholly or partially replace existing conventional solutions with combinations of function oriented appliances for e.g. groups of motors.

Examples of conventional appliances/equipments which can be replaced by an intelligent system are

— thermal overcurrent relays

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