

Greetings and Introductions

The working group meeting was called to order at 8:00 AM on October 6, 2020. Jacob Blake presided as Chairman. There were 20 participants in attendance. 15 out of 21 members were present including five guests constituting a quorum. See the roster of the meeting included at the end of this document. All present introduced themselves. No essential patent claims were noted. No copyright claims were noted.

Review Draft outline

- Enclosure – NEMA ratings and IP ratings were added to the document
 - Add more detail to the ratings
- Routine Testing
 - AC and DC testing was added
 - Adding caution note to DC hi-pot testing
- Environmental Control
 - Change “shall” to “are” or “should”
 - Reference the IP Publication standard rather than adding additional NEMA ratings
- Electric Protection
 - Definitions added that coincide with NESC
 - Component Markings
 - Should be marked as UL489 device
 - Permitted Uses
 - DC and AC references IEEE C37.30.1
 - Conductor Sizing
 - Added conductor sizing for 125% of locked rotor current
 - Offline conversation to further edit this section will occur
 - References to other documents will need to be kept
- Terminations
 - Change wording to “...terminations should be rated for application.” Remove “600V”
- Terminal Blocks
 - Remove “600V” leave as “rated for application”
- Mechanical Performance
 - Definitions for “minimum torque” and “full rated torque” are needed
 - Torsional
 - Change “minimum torque” to “output torque”
 - Reciprocating
 - Change “minimum torque” to “output force”
 - Braking
 - General wording added to require a braking method without specifically stating a type of braking
- Auxiliary Switch
 - Wording added for manufacturer and user to agree upon
- RTU
 - User should specify RTU being used or if it should be included
 - Change “power RTU” to “control RTU”
 - Spell out RTU as Remote Terminal Unit (RTU)
 - Add RTU to definitions
 - Add paragraph stating that RTU can be included with the motor operator
 - Communication Method

Minutes of IEEE C37.30.6 – Motor Operator Guide
“Virtual” Fort Worth, TX
October 6, 2020

- Add power connector requirement, communication connection requirement, antenna connection requirement, and mounting requirement
- Nameplate
 - Add section for force
 - Add reciprocating mechanism section
 - Change “switches” to “motor operators”
- Motor Protection
 - Add “class” to fuse type
 - Edit line 25 to breakers
- Interlock
 - Change wording to “...should provide”
 - Add “associated substation” before circuit breaker
 - Remove “the” before electromagnetic contactors
 - Add statement on non-electromagnetic contactors

The first session was paused and adjourned at 9:45 AM.

The working group meeting was called to order at 10:15 AM on October 6, 2020. Jacob Blake presided as Chairman. There were 19 participants in attendance. 14 out of 21 members were present including five guests constituting a quorum. See the roster of the meeting included at the end of this document. All present introduced themselves. No essential patent claims were noted. No copyright claims were noted.

Review Draft outline

- Torsional
 - Change “output” to “stall torque”
 - Add line for “running torque for time duration at full travel”
- Reciprocating
 - Remove thrust rating
 - Add operating time – maximum voltage
 - Add operating time – minimum voltage
- Mechanism Wiring
 - C37.21 was brought into questioning. Jacob will acquire a copy of this standards C37.21 and C37.21a for the working group and discussion will be postponed until the standards can be reviewed.
- Wiring Types
 - More information will be added, and discussion will be held in the Spring
- Batteries
 - Types of batteries should be stricken and an agreement between manufacturer and user should be defined
 - Sizing
 - Outlining customer knowledge of battery requirements from battery manufacturer
 - Outlining how long a battery can support electronics in motor operator without switch operations
 - Outlining how many operations battery can support without external charging
 - Outline time period between charging while in storage
 - Chargers
 - The user and manufacturer should consult with battery manufacturer for charger
 - Inverters

Minutes of IEEE C37.30.6 – Motor Operator Guide
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- Remove section entirely
- Testers
 - Move section under Options
- Options
 - Add “possible” after every
- Motor manual operator
 - Change title to Manual Operation
 - Add “or mechanically” to disconnection
 - Add “to remain with the motor operator”

Next Meeting

The Chairman announced that the next meeting for C37.30.6 will be held TBD April 18 – 23, 2021 in Charlotte, NC.

Respectfully submitted,
Brett Boles
C37.30.6 Secretary

Phone: 205.288.0305
bhboles@southernco.com

Minutes of IEEE C37.30.6 – Motor Operator Guide
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Meeting Roster

Brian Alexander	S&C	Guest
Jacob Blake	Hubbell Power Systems	Chair
Brett Boles	Southern Company	Secretary
Tim Cook	Pascor Atlantic	Member
Steven Donahue	Royal Switchgear	Member
Chris Ekpoudom	Southern States	Guest
Ilya Glinsky	Southern Cal Ed	Member
Doug Hill	S&C	Guest
Danny Hoss	Southern States	Member
Bill Hurst	GE	Member
John Kaminski	Siemens	Member
Pete Kowalik	Cleveland/Price	Member
Scott Lanning	S&C	Member
Jeremy Moore	Pascor Atlantic	Member
Laura Reid	Hubbell Power Systems	Member
Carl Reigart	Hubbell Power Systems	Member
Brent Richardson	Hubbell Power Systems	Member
Rob Ross	Cleveland/Price	Guest
Devki Sharma	Entergy	Member
Donnie Swing	Powell Industries	Guest