Motorized Breakers Make Control Easy!

All relay based systems **MUST** be electrically protected by a circuit breaker. Motorized breakers eliminate the need for wall or rack mounted relay based systems...

- Saves Space
- Saves redundant installation and hardware costs!
- UL listed circuit breaker with built-in internal switching capability manufactured by
  - **SQUARE D**
- Time tested, in service over 20 years
- Available in 15A, 20A and 30A - 1, 2 or 3 poles for remote control of all electrical loads
- Robust - rated for 60k on, off, on cycles
- Energy efficient - NO holding current or heat sinks required to maintain state - Runs cool, lasts long!
- Automatic load shedding and brownout protection in every panel.
- Emergency override function standard on every panel.

Specifying in 5 easy steps

1. Choose the control method: **SC=RS-232**
2. Choose the cabinet style: **LC** for load center and **P** for panelboard
3. Choose three phase (3) or single phase (1)
4. Choose the number of circuits: **26** or **41** Panelboards are only available in 41 circuits.
5. Choose the maximum number of controlled circuits: **10, 20, 30, 40, or 50**.

EX: **SCLC 326-20** = a 3 phase load center with 26 circuits (24 max controlled)
**SCP 341-30** = a 3 phase panel board with 41 circuits (30 max controlled)

All panels and load centers
SC-10 RS232 PROTOCOL

Commands set

<table>
<thead>
<tr>
<th>Command</th>
<th>Decimal</th>
<th>Hexadecimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start byte</td>
<td>176</td>
<td>0xB0</td>
</tr>
<tr>
<td>Stop byte</td>
<td>240</td>
<td>0xF0</td>
</tr>
<tr>
<td>Board address</td>
<td>1 - 99</td>
<td>0x01 - 0x63</td>
</tr>
<tr>
<td>Output address</td>
<td>1 - 10</td>
<td>0x01 - 0x0A</td>
</tr>
<tr>
<td>Output ON</td>
<td>180</td>
<td>0xB4</td>
</tr>
<tr>
<td>Output OFF</td>
<td>181</td>
<td>0xB5</td>
</tr>
<tr>
<td>Output status</td>
<td>182</td>
<td>0xB6</td>
</tr>
<tr>
<td>Status of all outputs</td>
<td>189</td>
<td>0xBD</td>
</tr>
<tr>
<td>All ON</td>
<td>186</td>
<td>0xBA</td>
</tr>
<tr>
<td>All OFF</td>
<td>187</td>
<td>0xBB</td>
</tr>
<tr>
<td>Set/clear output verification status*</td>
<td>190</td>
<td>0xBE</td>
</tr>
</tbody>
</table>

*Not be implemented - autoscan can distinguish between RR7 and RR9

2. Commands description

2.1 Outputs ON command

\[ \text{0xB0, board_address, 0xB4, output_address}_1, ..., \text{output_address}_m, 0xF0 \]

\[ m<=10 \ (0x0A) \]

Example: B0 01 B4 04 0A F0, turns on outputs at 4 and 10, on 1st card

2.2 Outputs OFF command

\[ \text{0xB0, board_address, 0xB5, output_address}_1, ..., \text{output_address}_n, 0xF0 \]

\[ n<=10 \ (0x0A) \]

Example: B0 02 B5 09 F0, turns off output at 9, on 2nd card

2.3 Outputs ON/OFF command

\[ \text{0xB0, board_address, 0xB4, output_address}_1, ..., \text{output_address}_m, \text{0xB5, output_address}_1, ..., \text{output_address}_n, 0xF0 \]

\[ m \text{ and } n<=10 \ (0x0A) \]

Example: B0 01 B4 04 0A B5 09 F0, turns on output at 4 and 10, and turns off output at 9, on 1st card

2.4 Outputs status

\[ \text{0xB0, board_address, 0xB6, output_address}_1, ..., \text{output_address}_m, 0xF0 \]

\[ m<=10 \ (0x0A) \]

Example: B0 03 B6 04 0A F0, status of outputs at 4 and 10, on 3rd card

2.5 Status of all outputs

\[ \text{0xB0, board_address, 0xBD, 0xF0} \]

2.6 All ON - turn on all available outputs

\[ \text{0xB0, board_address, 0xBA, 0xF0} \]
2.7 All OFF - turn off all available outputs
0xB0, board_address, 0xBB, 0xF0

2.8 Set/clear output verification status (NOT IMPLEMENTED)
0xB0, board_address, 0xBE, output_address_i, output_ver_status_i, output_address_j, output_ver_status_j, ... , output_address_n, output_ver_status_n, 0xF0

output_address_i, output_ver_status_i, output_address_j, output_ver_status_j, ... , output_address_n, output_ver_status_n - addresses and status of outputs, n<=10

Output_ver_status coding

<table>
<thead>
<tr>
<th>Status</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable</td>
<td>0x01</td>
</tr>
<tr>
<td>Enable</td>
<td>0x02</td>
</tr>
</tbody>
</table>

When verification status of the output is disabled, the board will always respond with “no verification” status for this output. Verification status shall be disabled for all outputs driving RR7 relays.

3. Responses

3.1 Output status codes

<table>
<thead>
<tr>
<th>Status</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>0x01</td>
</tr>
<tr>
<td>On</td>
<td>0x02</td>
</tr>
<tr>
<td>Fault</td>
<td>0x03</td>
</tr>
<tr>
<td>No verification, expected off</td>
<td>0x04</td>
</tr>
<tr>
<td>No verification, expected on</td>
<td>0x05</td>
</tr>
<tr>
<td>Empty</td>
<td>0x06</td>
</tr>
</tbody>
</table>

3.2 Output status change response

This response is transmitted when output(s) change(s) status for ANY reason (RS232 command, button push, brown out, recover from brown out, emergency override, recover from emergency override).

0xB0, board_address, 0xB6, output_address_i, output_status_i, ... , output_address_n, output_status_n, 0xF0

n<=10 (0x0A)

Example: B0 01 B6 04 01 05 02 0A 06 F0, output at 4 is off, at 5 is on, and at 10 is empty, on 1st card

3.3 Status of all ten outputs (transmitted only in reply to status of all outputs command)
0xB0, board_address, 0xBD, byte_1, ..., byte_10, 0xF0

Example: B0 02 BD 01 01 01 01 02 02 02 02 06 F0, outputs 1 thru 5 are off, 6 thru 9 are on, and 10 is empty, on 2nd card

4. AMX Device Discovery

Beacon request: “AMX\r”

Beacon: “AMXB<-SDKClass=Utility><-Make=Lyntec><-Model=SC10><-Revision=1.0.0>\r”
Transfer as-built information to the door label upon completion.

Keep this sheet for as-built documentation

Available as PDF download
www.lyntec.com/139-0574_SCP341_Plnr.pdf

SCP 341-xx-M125 to -M225
(65k AIR main) - 225A bus
xx = Number of controller circuits
10, 20, 30, 40 or 50.

Cabinet outline - Surface mount only
Outside dimensions: 28.06" w., 50" h., 6.13" d.
Knockout panels supplied in both ends.

RS-232 board address:
1-41

Each motorized breaker is actuated by a command from a RS-232 control device.

As-built door label example:
The RS-232 # is the RS-232 address of the breaker.
The board jumpers set the RS-232 address of the board. Each breaker has a sub-address of 1-10

RS-232 CONTROL POWER

Job________________________ Date________________________
Panel________________________
Comments________________________________

by________________________ Date________________________

SCP 341-20
Model holds up to 41 poles.
Controls up to 20 1, 2, or 3 pole breakers.

24 VAC input

24 VAC output

Lighting Control

RS-232 board:

Lighting Control

RS-232 board:

Lighting Control

RS-232 board:

Lighting Control

RS-232 board:

Lighting Control

Lighting Control

Lighting Control

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Lighting Control
Square D NQOD-NL MB Panel with LynTec low-voltage sidecar.

Standard SCP-225A Main Breaker: 225 Amp. - 65k AIR - MJG32225
Square D MJG32xxx or MHG32xxx series (all 65k AIR) [Amps Interrupt Rating]

Main Breaker options
Part suffix = Bold face = Amps
-MHG3125, -MJG3150, -MJG3175 or -MJG3200

Wire Sizes
Main Breaker: 3/0 - 350 kcmil Al/Cu.
200% Neutral has one feed lug that accepts 2 - 250 kcmil Cu wires.

Surface Mount
Outside Dimensions: 28.06" w., 50.2" h., 6.13" d.

High voltage interior may be field inverted for top feed
SCP 341 with Optional ITG Sidecar
Outline Drawing

LynTec
SCP 341-xx (65k AIR main)
RS-232 Controlled Panelboard

Square D NQOD-NL MB Panel
with LynTec sidecars.

Standard SCP Main Breaker:
225 Amp, - 65k AIR - MJG32225
Main Breaker options — Part# suffix
Bold = Amps
-MHG3110, -MHG3125, -MJG3150, -MJG3175 or -MJG3200
(all 65k AIR)
[Amps Interrupt Rating]

Main Breaker wire:
#4-350 kcmil Al or 250 kcmil Cu.
200% Neutral has one feed lug that
accepts two 250 kcmil Cu wires.

Outside dimensions
36" w., 50" h., 6.13" d.

High voltage interior may be
field inverted for top feed

Feed
2/0 max.

Enclosure
ground
bar.

Controller 1

Controller 2

Controller 3

Controller 4

Controller 5

NQOD-NL Panel
200% Neutrals.
2 — 250 kcmil max.

Iso-Tech
Ground
Bar

Feed
4/0 max.

Iso-Tech Ground Branches:
46 position
14 - 4 ga.

1.5" I.D.
wire
connections
between
sidecars &
Panelboard

139-0574-00 SCP ITG Outline Drawing 9/27/11
## Selection Information

**H- and J-frame Thermal-magnetic Molded Case**

150 and 250 Ampere Frame — Class 611

### Circuit Breaker Type

<table>
<thead>
<tr>
<th>Type</th>
<th>HD</th>
<th>HG</th>
<th>HJ</th>
<th>HL</th>
<th>JD</th>
<th>JG</th>
<th>JJ</th>
<th>JL</th>
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<tr>
<td>Number of Poles</td>
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<td>2,3</td>
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### Intermittent Ratings

**UL/CSA/NOM**

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<th>V</th>
<th>25</th>
<th>65</th>
<th>100</th>
<th>125</th>
<th>25</th>
<th>65</th>
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<td>480 V</td>
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<td>600 V</td>
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<tr>
<td>Unit Mount</td>
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<td>✓</td>
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</tr>
</tbody>
</table>

### Accessories and Modifications

| Shunt Trip | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Undervoltage Trip | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auxiliary Switches | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Alarm Switch | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Motor Operator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Handle Operators | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Handle Padlock Attachment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Handle Mechanical Interlocks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optional GF Protection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

### Trip System Type

| Thermal-magnetic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Instantaneous-only (MCP) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Molded Case Switch (Automatic) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Electronic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

### Dimensions

| Height (IN) | 6.4 (163) | 7.5 (191) |
| Width (IN) | 4.1 (104) | 4.1 (104) |
| Depth (IN) | 3.4 (86) | 3.4 (86) |

▲ Not available in HD and HG two-pole rating (2-pole module)
■ 2-pole in a 3-pole module.

For **Branch Breaker Series Ratings**

see [http://www.lyntec.com/139-0407_Series_Ratings.pdf](http://www.lyntec.com/139-0407_Series_Ratings.pdf)
This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the
For NQOD and NF Panelboards
Series Ratings

| Branch Circuit Breaker Designations and Allowable Amperes Ranges |
|-------------|-----------------|-----------------|-----------------|
| Type        | 1-pole          | 2-pole          | 3-pole          |
| 208Y/208Y   | 120/240 200     | 120/240 200     | 120/240 200     |
| 120 200     | 400 2000        | 400 2000        | 400 2000        |
| 600Y/347    | 200,000 200     | 200,000 200     | 200,000 200     |
| 480Y/277    | 200,000 200     | 200,000 200     | 200,000 200     |
| 600Y/347    | 200,000 200     | 200,000 200     | 200,000 200     |

NQOD Series Ratings (Continued)

| Branch Circuit Breaker Designations and Allowable Amperes Ranges |
|-------------|-----------------|-----------------|-----------------|
| Type        | 1-pole          | 2-pole          | 3-pole          |
| 208Y/208Y   | 120/240 200     | 120/240 200     | 120/240 200     |
| 120 200     | 400 2000        | 400 2000        | 400 2000        |
| 600Y/347    | 200,000 200     | 200,000 200     | 200,000 200     |
| 480Y/277    | 200,000 200     | 200,000 200     | 200,000 200     |
| 600Y/347    | 200,000 200     | 200,000 200     | 200,000 200     |

NF Series Ratings

<table>
<thead>
<tr>
<th>Main Type Branch Type</th>
<th>Polles</th>
</tr>
</thead>
<tbody>
<tr>
<td>495</td>
<td>2 &amp; 3</td>
</tr>
<tr>
<td>100.000</td>
<td>GKB</td>
</tr>
<tr>
<td>125.000</td>
<td>GKB</td>
</tr>
<tr>
<td>200.000</td>
<td>GKB</td>
</tr>
<tr>
<td>250.000</td>
<td>GKB</td>
</tr>
<tr>
<td>350.000</td>
<td>GKB</td>
</tr>
<tr>
<td>480Y/277</td>
<td>2 &amp; 3</td>
</tr>
<tr>
<td>65.000</td>
<td>GKB</td>
</tr>
<tr>
<td>100.000</td>
<td>GKB</td>
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<tr>
<td>200.000</td>
<td>GKB</td>
</tr>
<tr>
<td>250.000</td>
<td>GKB</td>
</tr>
<tr>
<td>350.000</td>
<td>GKB</td>
</tr>
</tbody>
</table>

QOBLxxx-5393 = BMB series Bolt-on, Motorized, (REMOTE OPERATED) 
xx = poles, xx = trip current. -5393 suffix denotes special 60" control wires. 
[1 pole] BMB-15, BMB-20, BMB-30 
[3 pole] BMB-315, BMB-320, BMB-330 
QOQBxxx = MB series clip-on, UnMotorized Breaker 
xx = poles, xx = trip current. 
[1 pole] UMB-15, UMB-20, UMB-30 
[3 pole] UMB-315, UMB-320, UMB-330 
All 15 & 20 A breakers are HM (High Magnetic)
Instruction Bulletin

QO-PL (Plug-on), QOB-PL (Bolt-on) Powerlink® Remotely Operated Circuit Breakers
(Use in Type QO Load Centers and Type NQO, NQOB, and NQOD Panelboards)
Retain for future use.

REQUIREMENTS

Remotely Operated Circuit Requirements

\[\text{**DANGER**}

HAZARD OF ELECTRIC SHOCK, BURN, OR EXPLOSION.

When servicing a branch circuit fed by a remotely operated circuit breaker, move handle of remotely operated circuit breaker to OFF position. Do not rely on remote operation to open circuit breaker.

Failure to follow these instructions will result in personal injury or death.

CIRCUIT BREAKER INSTALLATION

\[\text{**DANGER**}

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

• Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
• This equipment must be installed and serviced only by qualified electrical personnel.
• Turn off all power supplying this equipment before working on or inside equipment.
• Always use a properly rated voltage sensing device to confirm power is off.
• Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death, or serious injury.

POWERLINK® QO(B)-PL Remotely Operated Circuit Breakers require a power supply capable of delivering at least two amperes at 24 Vdc for a minimum of 50 milliseconds. One-, two-, and three-pole circuit breakers all have one internal motor, and power requirements are the same regardless of the number of poles and ampere ratings.

The required power supply ampacity and control device contact rating are determined by the number of circuit breakers to be switched simultaneously (i.e., four circuit breakers switched simultaneously require a power supply and a control device contact rated 8 amperes minimum). The control device may be either a normally-open (NO)/normally-closed (NC) contact; a single-pole, double-throw switch (SPDT); or other three-wire control device.

1. Turn off all power supplying this equipment before working on or inside equipment.
2. Before installing circuit breaker turn circuit breaker handle to OFF position.
3. Remove panelboard cover and deadfront. Verify power is off with voltage meter before proceeding.

Installation of circuit breaker into panelboard/load center (refer to figure below)

4. Except for remotely operated connections, QO(B)-PL remotely operated circuit breakers are installed in a panelboard/load center the same as conventional QO(B) circuit breakers.

Connection of remotely operated circuit (refer to the figure on next page)

5. Assure that power supply and control device meet requirements listed under "Remotely Operated Circuit Requirements."

See page 2 for LynTec part number explanation

All LynTec supplied breakers have special 60” control wires. (Square D standards are 18”.)
CIRCUIT BREAKER INSTALLATION

HAZARD OF CIRCUIT BREAKER DAMAGE.

Connect the 24 Vdc remote control wiring as shown on this page.

Failure to follow these instructions can permanently damage the remotely operated circuit breaker.

6. All wiring and splicing must comply with applicable code requirements for Class I circuits. Refer to paragraph 373-8 and article 725 of the National Electrical Code.

7. Three #18 AWG control wires are attached to the remotely operated circuit breaker for connection to the power supply and remote control device and should be cut to the required length to reach the splice connections. Use #18 AWG or larger conductors with 600 V insulation and approved wire connectors for splices.

8. Connect the black lead of the remotely operated circuit breaker to the negative (-) terminal of the 24 Vdc power supply. Connect the red lead of the remotely operated circuit breaker to the positive (+) terminal of the 24 Vdc power supply. Connect the white lead of the remote control device. The remote control device provides connections between either positive or negative potential of the power supply and the white wire of the remotely operated circuit breaker, as appropriate.

9. Applying the positive potential of the power supply to the white wire (contact closure between the red wire and white wire) will operate the remote mechanism of the circuit breaker to the OFF position. Applying the negative potential of the power supply to the white wire (contact closure between the black wire and the white wire) will operate the remote mechanism of the circuit breaker to the ON position. A control circuit utilizing a normally open (NO)/normally closed (NC) contact is illustrated below.

NOTE: The remote mechanism will not move the circuit breaker handle. Also, the remote mechanism cannot turn power ON when the circuit breaker is tripped (VISI-TRIP® flag indicator showing) or when the circuit breaker handle is in the OFF position.

Installation of the trim and operational checks

10. Remove corresponding twist-out from panelboard trim and replace trim.

11. Turn power to panelboard on.

12. Turn remotely operated circuit breaker handle to the ON position.

13. Turn power to the remotely operated circuit on and test this circuit, turning remotely operated circuit breaker off remotely, then on remotely. If power to remotely controlled circuit breaker load does not switch off and on, turn off power to remotely operated circuit and panelboard and check wiring.

NOTE: A power supply is available from Square D Company, Cat. No. QOPLPS (plug-on) or QOBPLPS (bolt-on).

Splice not normally required with LynTec supplied breakers with 60" leads.

LynTec also stocks UMB, BUMB, BUMB, and QO series circuit breakers including HM (High Magnetic). Recommended for eliminating nuisance trips in high inrush applications. All BMB & MB-x15's and BMB & MB-x20's are HM breakers.

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Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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