**LynTec RS-232 Controlled Panels and Load Centers**

**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**
**LOAD CENTERS**

**SCLC 326-xx-Mxxx RS-232 Controlled Load Center**

**MODEL NUMBERS**
- **SCLC 326-10-Mxxx** (Up to 10 RS-232 controlled circuits)
- **SCLC 326-20-Mxxx** (Up to 20 RS-232 controlled circuits)
- **SCLC 326-30-Mxxx** (Up to 30 RS-232 controlled circuits)

Square D QO327M100 Load Center with LynTec low-voltage sidecar.

Standard back-fed Main Breaker:
- Squared D# QO342MQ225 Load Center
- Main Breaker: 1 #1- 600 kcmil Cu or 250 kcmil Cu.

Part# suffix — [Amps Interrupt Rating]
- M3030 — 150 Amp — M3040 — 200 Amp
- M3060 — 250 Amp — M3070 or M3090 — 300 Amp

Square D# PQ3xxx (all VH = 22k AIR)

Outside dimensions: 28.06” w., 50.9” h., 6.13” d.

**PANELBOARDS**

**SCP 341-xx-Mxxx RS-232 Controlled Panelboard**

**MODEL NUMBERS**
- **SCP 341-10-Mxxx** (Up to 10 RS-232 controlled circuits)
- **SCP 341-20-Mxxx** (Up to 20 RS-232 controlled circuits)
- **SCP 341-30-Mxxx** (Up to 30 RS-232 controlled circuits)
- **SCP 341-40-Mxxx** (Up to 40 RS-232 controlled circuits)
- **SCP 341-50-Mxxx** (Up to 50 RS-232 controlled circuits) (limited by 42 circuit code rule)

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

Standard SCP 225A Main Breaker: 225 Amp.
- 65k AIR — MJG36225

Part# suffix — **Bold face** + Amps
- M30325 — 425 Amp
- M30450 — 500 Amp
- M30600 — 600 Amp

Main Breaker options
- 3Ø, 208Y/120 Vac, 4 wire. — 225 Amp Standard
- Neutral has one feed lug that accepts 2 - 250 kcmil Cu wires

Outside dimensions: 28.06” w., 50.9” h., 6.13” d.

Knockout panels supplied in both ends

Optional isolated technical ground sidecar not shown

**SCP 341-xx-M400 RS-232 Controlled Panelboard**

**MODEL NUMBERS**
- **SCP 341-10-M400** (Up to 10 RS-232 controlled circuits)
- **SCP 341-20-M400** (Up to 20 RS-232 controlled circuits)
- **SCP 341-30-M400** (Up to 30 RS-232 controlled circuits)
- **SCP 341-40-M400** (Up to 40 RS-232 controlled circuits)
- **SCP 341-50-M400** (Up to 51 RS-232 controlled circuits - limited by 42 circuit code rule)

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

Standard SCP 400A Main Breaker: 400 Amp.
- 10k AIR — LA36400

Part# suffix — **Bold face** + Amps
- M50400 — 400 Amp

Main Breaker options
- 3Ø, 208Y/120 Vac, 4 wire. — 400 Amp Standard
- Neutral has one feed lug that accepts one #1-750 kcmil Cu

Outside dimensions: 28.06” w., 68.2” h., 6.13” d.

Optional isolated technical ground
ARCHITECT’S and ENGINEER’S SPECIFICATIONS
SCP Series Serial Controlled Panelboard

All A.C. power for the A/V system shall be supplied from a source capable of being remote controlled via RS-232 control protocol.

Circuits shall be individually addressable providing on and off control via RS232 protocol.

A means of visual operator feedback shall provide an indication of circuit on/off status locally via LEDs.

The system shall have brownout (undervoltage) protection; monitoring the line voltage and triggering an automatic shutdown if the line voltage drops below 95 volts for more than 2 seconds. The system shall automatically return circuits to on state when power resumes and remains above 105 volts for more than 2 seconds without operator intervention.

The system shall have emergency shutdown capability triggered by external contacts or the system operator.

Un-motorized circuits, as required, shall be supplied from the same A.C. source so that a single lever main circuit breaker is dedicated to the system.

Three phase panelboards shall have 200% neutrals.

Single phase panelboards shall have a single neutral.

Panelboards shall have a separate and attached isolated technical ground section.

All branch circuit breakers shall be bolt-on.

The Serial Controlled Panelboard system shall be the LynTec model SCP xxx series Panelboard.

Manufacturer shall warrant specified equipment to be free from defects in materials and workmanship as follows: at least (15) months from date of purchase for line voltage equipment; at least (5) years from the date of purchase for control electronics.

LynTec — 800-724-4047 — www.LynTec.com

Models:

Single Phase, 65k AIR: SCP 141-12, SCP 141-24, SCP 141-36, SCP 141-48, SCP 141-60

Balanced Power, 60v-0-60v, 65k AIR: SCP 119-12, SCP 119-24

Three Phase, 65k AIR: SCP 341-12, SCP 341-24, SCP 341-36, SCP 341-48, SCP 341-60

This document available in Word format:
hhttp://www.lyntec.com/139-0578_SCP_A&E_Spec.docx

Most recent version pdf:
hhttp://www.lyntec.com/139-0578_SCP_A&E_Spec.pdf

139-0578-00_SCP_A&E_Spec 10/5/11
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

0xB0, board_address, 0xB4, output_address_1, ..., 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

0xB0, board_address, 0xB5, output_address_1, ..., 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

0xB0, board_address, 0xB4, output_address_1, ..., output_address_m, 0xB5, output_address_1, ..., output_address_n, 0xF0
m 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

0xB0, board_address, 0xB6, output_address_1, ..., 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

0xB0, board_address, 0xBD, 0xF0

2.6 All ON - turn on all available outputs

0xB0, board_address, 0xBA, 0xF0
2.7 All OFF - turn off all available outputs

\textit{0xB0, board_address, 0xBB, 0xF0}

2.8 Set/clear output verification status (NOT IMPLEMENTED)

\textit{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, \(n \leq 10\)

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).

\textit{0xB0, board_address, 0xB6, output_address_i, output_status_i, ... output_address_n, output_status_n, 0xF0}

\(n \leq 10\) (0x0A)

Example: \textit{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)

\textit{0xB0, board_address, 0xBD, byte_1, ..., byte_10, 0xF0}

Example: \textit{B0 02 BD 01 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: “\textit{AMX}r”

Beacon: “\textit{AMXB<-SDKClass=Utility><-Make=Lyntec><-Model=SC10><-Revision=1.0.0>\r}”
SCP 141-xx-M125 to -M225 RS-232 Controlled Panelboard

Breaker types, sizes, positions and connections

Transfer as-built information to the door label upon completion.
Keep this sheet for as-built documentation

Available as PDF download
www.lyntec.com/139-0575_SCP141_Plnr.pdf

SCP 141-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 CONTROL POWER

Control Board

Outside dimensions: 28.06" w., 50" h., 6.13" d.

Square D NQOD-NL MB Panel
with LynTec sidecar

Standard SCP Main Breaker:
225 Amp. - 65k AIR - M225
Square D MGP30225

Main Breaker options — Part suffix
Bold = Amps - M125, M150, M175 or 1/200
(all 65k AIR)
(Amps Interrupt Rating)

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

RS-232 Board address: ______

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

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

Bold line around box = suggested control board: #1 (Top), #2, #3 or #4. Fill in box to indicate which control board this breaker is connected to.

by________________________ Date___________
________________________________________
Panel ____________________________________
Job______________________________________
Outline Drawing

LynTec
SCP 141-xx (25k AIR main)
[Special order, NCNR]

Square D NQOD MB Panel with LynTec sidecars.

225A Copper Bus
Main Breakers available
QGL2xxx series — All 65k AIR
Part# suffix — Bold face = Amps
- MQG2070, - MQG2080,
- MQG2090, - MQG2100,
- MQG2110, - MQG2125,
- MQG2150, - MQG2175,
- MQG2100, - MQG2200,
- MQG2225.

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

High voltage interior may be field inverted for top feed

225A Copper Bus

SEQUENCER POWER

Enclosure ground bar.
23 position 14-4 ga.

#4 — 300 kcmil Al/Cu

1.5" I.D. wiring access nipples between sidecars & Panelboard
Outline Drawing
with optional ITG sidecar

LynTec
SCP 141-xx (25k AIR main)
[Special order, NCNR]

Square D NQOD MB Panel with LynTec sidecars.

225A Copper Bus
Main Breakers available
QGL22xxx series — All 65k AIR
Part# suffix — Bold face = Amps
- MQG2070, - MQG2080,
- MQG2090, - MQG2100,
- MQG2110, - MQG2125,
- MQG2150, - MQG2175,
- MQG2100, - MQG2200,
- MQG2225.

Outside dimensions 36" w., 50" h., 6.13" d.
# Thermal-magnetic Molded Case Circuit Breakers

## 250 Ampere Frame

### Class 734

**QDL & QGL**

2 and 3-pole

70–250 Amperes

### 250 Ampere Frame

**Current Rating @ 40°C**

<table>
<thead>
<tr>
<th></th>
<th>AC Magnetic Trip Settings</th>
<th>D Interrupting</th>
<th>G Interrupting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hold</td>
<td>Trip</td>
<td>Catalog Number</td>
</tr>
<tr>
<td>2-pole, 240 Vac</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>1000</td>
<td>1800</td>
<td>QDL22070</td>
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<tr>
<td>80</td>
<td>1000</td>
<td>1800</td>
<td>QDL22080</td>
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<tr>
<td>90</td>
<td>1000</td>
<td>1800</td>
<td>QDL22090</td>
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<tr>
<td>110</td>
<td>1200</td>
<td>2400</td>
<td>QDL22110</td>
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<tr>
<td>125</td>
<td>1200</td>
<td>2400</td>
<td>QDL22125</td>
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<td>1200</td>
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<td>1200</td>
<td>2400</td>
<td>QDL22175</td>
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<td>1200</td>
<td>2400</td>
<td>QDL22200</td>
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<td>225</td>
<td>1200</td>
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</tr>
<tr>
<td>250</td>
<td>1200</td>
<td>2400</td>
<td></td>
</tr>
</tbody>
</table>

### 3-pole, 240 Vac

**Current Rating @ 40°C**

<table>
<thead>
<tr>
<th></th>
<th>AC Magnetic Trip Settings</th>
<th>D Interrupting</th>
<th>G Interrupting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hold</td>
<td>Trip</td>
<td>Catalog Number</td>
</tr>
<tr>
<td>70</td>
<td>1000</td>
<td>1800</td>
<td>QDL32070</td>
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<tr>
<td>80</td>
<td>1000</td>
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<td>QDL32080</td>
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<td>90</td>
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<td>1800</td>
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<tr>
<td>100</td>
<td>1200</td>
<td>2400</td>
<td>QDL32100</td>
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<tr>
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<td>1200</td>
<td>2400</td>
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<td>1200</td>
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<td>225</td>
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<tr>
<td>250</td>
<td>1200</td>
<td>2400</td>
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</table>

### Interrupting Ratings (kA)

<table>
<thead>
<tr>
<th></th>
<th>QD</th>
<th>GG</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 V</td>
<td>25</td>
<td>65</td>
</tr>
</tbody>
</table>

**For Branch Breaker Series Ratings**

see [http://www.lyntec.com/139-0407_Series_Ratings.pdf](http://www.lyntec.com/139-0407_Series_Ratings.pdf)

**LynTec**

LCLC 326

MSLC 326

MSLC 338

MSP 338

SCLC 326

SCLC 338

SCP338

Use a 3 pole, back-fed main breaker, rated at 100 AMPS or less.

QO3xxxVH Series

**LynTec**

SCP 139

SCP 139

SCP 338

SCP338

Use a 2 pole, back-fed main breaker, rated at 100 AMPS or less.

**LynTec**

MSP 139

MSP 139

MSP 141

SCP 141

▲ Standard

✚ Optional from stock

✚✚ All models 70-225A Special order. NCNR Non-Cancelable Non-Returnable

**Accessories**

pages 6-36–6-38

**Optional Lugs**

pages 6-43, 6-44

**Dimensions**

pages 6-49, 6-50

**Enclosures**

pages 6-51–6-54

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4/1/04

139-0343-04 Q Frame Mains 09/27/11

Derived from Digest 173 — page 6-21
This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the Class 1630, 1670 For NQOD and NF Panelboards

Maximum System Voltage AC

For most current version see http://www.lyntec.com/139-0407_Series_Ratings.pdf

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8/20/06
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

**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

**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.

See page 2 for LynTec part number explanation

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

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

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.

---

**LynTec**

part numbers

**MB** series motorized circuit breakers (Snap-On)

May be used in LPLC, LCP, MSP, S/LC or **SP** series panels.

**BMB** series motorized circuit breakers (Bolt-On)

Use only in LCP, MSP or SP Panelboards.

All BMB & MB series breakers have Square D part number suffix of 5393 indicating a special 60 inch lead length for remote control wires required to connect to LynTec control boards in low voltage cabinet.

** = Stocked items

- **MB-15 = 15 Amp. Square D QO-115PL-5393**
- **MBM-15 = 15 Amp. Square D QOB-115PL-5393**
- **MB-20 = 20 Amp. Square D QO-120PL-5393**
- **BMB-20 = 20 Amp. Square D QOB-120PL-5393**
- **MB-30 = 30 Amp. Square D QO-130PL-5393**
- **BMB-30 = 30 Amp. Square D QOB-130PL-5393**

Two pole motorized - call for pricing & delivery

- **MB-215 = 15 Amp. Square D QO-215PL-5393**
- **BMB-215 = 15 Amp. Square D QOB-215PL-5393**
- **MB-220 = 20 Amp. Square D QO-220PL-5393**
- **BMB-220 = 20 Amp. Square D QOB-220PL-5393**
- **MB-230 = 30 Amp. Square D QO-230PL-5393**
- **BMB-230 = 30 Amp. Square D QOB-230PL-5393**

40A, 50A or 60A, Two pole also available on Special Order

Three pole motorized - call for pricing & delivery

- **MB-315 = 15 Amp. Square D QO-315PL-5393**
- **BMB-315 = 15 Amp. Square D QOB-315PL-5393**
- **MB-320 = 20 Amp. Square D QO-320PL-5393**
- **BMB-320 = 20 Amp. Square D QOB-320PL-5393**
- **MB-330 = 30 Amp. Square D QO-330PL-5393**
- **BMB-330 = 30 Amp. Square D QOB-330PL-5393**

LynTec also stocks **UMB** & **BUMB** (un-motorized) QO series circuit breakers including **HM** (High Magnetic). Recommended for eliminating nuisance trips in high inrush applications.

[All BMB & MB ≤ 15A and BMB & MB ≤ 20A are HM breakers.]

800-724-4047

LynTec • www.LynTec.com

8401 Melrose Dr., Lenexa, KS 66214, USA

Voice 913-529-2233 • Fax 888-722-4157 or 913-529-4157

LynTec overprint 139-0216-08.2 9/23/06

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6. All wiring and splicing must comply with applicable code requirements for Class 1 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 remote controlled circuit breaker load does not switch on 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. QOQPLPS (plug-on) or QOBPLPS (bolt-on).

**Splice not normally required with LynTec supplied breakers with 60” leads.**

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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