

125-225 Amp Lighting Panelboard Outline Drawing

28.06" 15.00 8.50" 2.28" 0000000 6.13" 00000 LynTec 00000 $\bigcirc \bigcirc$ Lighting Control Panelboard LCP 341-10-M225 LCP 341-20-M225 (\bigcirc) (\bigcirc) ്ത LCP 341-30-M225 1 LCP 341-40-M225 Control Board LCP 341-50-M225 High voltage interior may be (65k AIR main) field inverted for top feed LynTec Control Lighting **C**ontrol **P**anelboard Board MODEL NUMBERS 50.00" LCP 341-10-Mxxx (Up to 10 DMX controlled circuits) 44.00" LCP 341-20-Mxxx (Up to 20 DMX controlled circuits) 1.5" I.D. Control LCP 341-30-Mxxx wiring Board (Up to 30 DMX controlled circuits) access LCP 341-40-Mxxx nipples (Up to 40 DMX controlled circuits) between sidecar LCP 341-50-Mxxx & (Up to 41 DMX controlled circuits limited by 42 circuit code rule) Panelboard Square D NQOD-NL MB Panel Control with LynTec low-voltage sidecar. Board Standard LCP-225A Main Breaker: DMX 225 Amp. - 65k AIR - MJG32225 CONTROL Enclosure ground Square D MJG32xxx or MHG32xxx series (all 65k AIR) [Amps Interrupt Rating] bar. 2 X N MAIN Main Breaker options 23 position • 0 Part# suffix — Bold face = Amps -MHG3125, -MJG3150, -MJG3175 or -MJG3200 Control 14-4 ga. Board Wire Sizes Main Breaker: 3/0 - 350 kcmil Al/Cu. NQOD-NL Panel 200% Neutral has one feed lug that 200% Neutrals. 2 - 250 kcmil max. accepts 2 - 250 kcmil Cu wires. Ŷ \bigcirc (\bigcirc) Surface Mount Outside Dimensions: 3.00" 28.06" w., 50.2" h., 6.13" d. 00000 $\bigcirc \mathbb{C}$ $\bigcirc \bigcirc$ 00000



CAD drawing - Download - http://www.lyntec.com/139-0389_LCP341-M225_Outline.dwg.zip

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Program Card — As-built record
LynTec LCLC or LCP 341 series DMX controlled circuit breaker panel.
see reverse side for DMX PROTOCOL

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

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A

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Amp. 🗌 Un-motorized.

Amp. 🗌 Un-motorized.

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DMX CONTROL POWER

10A un-motorized breaker supplied installed

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As-built EDO field programming record. ndicate if a stored ON

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EDO Programming Emergency DMX Override

programmed for each breaker by filling corresponding circle. For egress or emergency lighting triggered by an external contact.

> Connecting EDO to Common with an external contact overrides the incoming DMX signal and forces all breakers to the pre-programmed EDO state.

A. Turn the DMX CONTROL POWER off.

- B Note the DMX Starting Address C. Move jumpers to reset the DMX
- STARTING Address to 555. D. Turn the DMX CONTROL POWER on.
- The board will scan through the breakers 1 thru 10 and display the previous EDO settings if there are any stored in memory. All numbered LEDs that were on when the EDO setting was stored will light.
- E. Press the green EDO ON-OFF Toggle button once. The #1 breaker LED will flash; Fast for ON - Slow for OFF. Toggle the same green button to the desired state of the #1 breaker.
- Advance to breaker #2 with the red EDO Advance button. (#1 now indicates the condition you left it in. Lit = ON)
- G. Set the rest of the positions, having breakers connected, to your desired EDO condition. Finish your settings with one more EDO Advance keystroke. All breaker LEDs will indicate their EDO state. If you change your mind, you can loop back to 1 with another Advance keystroke. #1 will begin flashing again to indicate it's ready to edit.
- To store your EDO settings, turn н DMX CONTROL POWER off and wait until the large red LED extinguishes.
- Reset the DMX Starting Address jumpers 1. to the one remembered in step B.
- Turn on DMX CONTROL POWER. Now J. whenever you connect the EDO terminal to common, the red EDO LED will light and your stored EDO settings will override any DMX commands until the emergency contact is opened. If you have programmed Post EDO, all
- circuits will go to that scenario when the emergency contact is opened. With no Post EDO program all breakers
- default to off and will require another DMX command to actuate.

You have the option to program the Post EDO condition to reset the breakers to a different condition when the EDO contacts are reopened.

How to program Post EDO

- K. With power off, move jumpers to reset the DMX Starting Address to 599.
 - Return to step D. to program Post EDO. >

Un-motorized. 🗌 Motorized-DMX # How it works

Panel

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Location

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Un-motorized. Motorized-DMX

Date

The DMX CONTROL POWER circuit breaker powers the control circuit boards via a 24 volt transformer.

Motorized circuit breakers (face-marked **REMOTELY OPERATED**) are individually actuated by a low-voltage command from a remote DMX control device. (light board)

Each of the numbered LEDs, 1 thru 10, indicate the status of the attached breaker.

Lit = ON — Unlit = OFF

Flashing = A command execution is in progress

Each circuit board controls up to ten 1, 2 or 3 pole motorized circuit breakers.

Each motorized breaker acts as a circuit protection device as well as a remotely operated switch. The breaker handle

moves only when over-current-tripped or manually turned off.

Master and Slave control boards are used depending upon the number of DMX universes served. (Slaves have no DMX input or output components).

DMX signals are fed to the Master board/s from the appropriate DMX universe.

Power DMX and EDO data are daisy-chain fed board-to-board by the yellow jumper connectors. (EDO = Emergency DMX Override)

The STARTING DMX address is set for each board by jumpers. Depending on the results of a power-up-scan, consecutive DMX addresses are only used for the headers with breakers attached.

The DMX Output is an optoisolated, buffered, loop-thru for driving other DMX devices.

Output data availability is indicated by a small-green flickering **DMX Output** LED. MANUAL TEST CONTROL

The circuit breakers may be manually controlled by the **TEST** switches on each board

The test switches work in the absence of a DMX signal. A valid DMX signal, indicated by a flashing large-green **Receiving DMX** LED, overrides the test switches.

> **Emergency DMX Override** see above right



139-0377-06f LC 341 Program Card 12/15/08 — Download and print current revision: http://www.lyntec.com/139-0377_LC341_ProgramCard.pdf

DMX PROTOCOL for LynTec LCRP series				
Code Range (8 bit)	%	Circuit Function		
0-63	0-24	Turns breaker off. When applied to all relays simultaneously, they turn OFF at a .25 second step rate.		
64-191	25-74	No change		
192-255	75-100	Turns breaker on. When applied to all relays simultaneously, they turn ON at a .25 second step rate.		

NOTES

LynTec — AVAILABLE MODELS — LynTec

Panel electrical specifications and configurations — Outline dimensions

at LynTec.com for model specfic Design or Submittal PDFs. See 🦪

CENTERS LOAD

LCLC 326-xx-Mxxx Lighting Control Load Center 3Ø, 208Y/120 Vac, 4 wire. — 100 Amp Main Breaker Standard Cabinet Outline - Surface mount only Cabinet Outline - Surface mount only LynTec LynTec 125A Copper Bus Control Board Lighting Control Load Center Lighting Control Load Center Contro S /N MODEL NUMBERS 1 MODEL NUMBERS 2254 1 Conner Bus LCLC 326-10-Mxxx LCLC 341-10-Mxxx (Up to 10 DMX controlled circuits) (Up to 10 DMX controlled circuits) S MAIN N Control Board Contro Board LCLC 341-20-Mxxx LCLC 326-20-Mxxx (Up to 20 DMX controlled circuits) 2 (Up to 20 DMX controlled circuits) 2 LCLC 341-30-Mxxx LCLC 326-30-Mxxx (Up to 26 DMX controlled circuits) (Up to 30 DMX controlled circuits) Control Board Control Board Square D QO327M100 Load Center LCLC 341-40-Mxxx 3 (Up to 40 DMX controlled circuits) with LynTec low-voltage sidecar. 3 DMX CONTROL POWER Square D QO342MQ225 Load Center Standard back-fed Main Breaker: with LynTec low-voltage sidecar. Æ Ì Squared D# QO3100VH. 100A, Control Board Standard Main Breaker: (VH = 22k AIB)Main Lug Only)-MLO option Square D# QDL32225. 225 Amp [Amps Interrupt Rating] 4 Remove Back fed main and top Main Breaker options Back-fed Main Breaker options DMX CONTROL POWER 10A supplied installed feed as a MLO to gain 3 circuits. Part# suffix - Bold face=Amps Part# suffix - Bold face=Amps Feed from a protected disconnect. -M3030, -M3035: (10kAIR) PDF -M3150, -M3175 or -M3200 Provides access to branch Square D# QO30xx Square D# QDL32xxx series breaker positions 1, 3, & 5. (all 25k AIR) [Amps Interrupt Rating] -M3050, -M3060, -M3070 or -M3090 Model number becomes a Adobe Squared D# QO3xxVH LCLCH option for 65k AIR Main Breaker LCLC 329-10-MLO Square D# QGL32xxx series (all VH = 22k AIR) PDF (10 DMX controlled circuits) All Wire Sizes LCLC 329-20-MLO Wire Sizes SQUARE D (20 DMX controlled circuits) #4 - 2/0 Cu Main Breaker : Adobe LCLC 329-30-MLO 350 kcmil Al or 250 kcmil Cu. **Panels** Outside dimensions (Up to 29 DMX controlled circuits) 100% Neutral has one feed lug 20.9" w., 29.8" h., 3.9" d. (Holds up to 29 one pole breakers) 1- 350 kcmil Al or 1- 250 kcmil Cu 125 Amp. Panel Bus Rating Outside dimensions Wire size: #6 - 2/0 Cu 20.9" w., 39.3" h., 3.9" d PANELBOARDS LCP 341-xx-Mxxx Lighting Control Panelboard LCP 341-xx-M400 Lighting Control Panelboard 3Ø, 208Y/120 Vac, 4 wire. - 225 Amp Main Breaker Standard 3Ø, 208Y/120 Vac, 4 wire. — 400 Amp Main Breaker Standard Cabinet Outline - Surface mount only Cabinet Outline — Surface mount only LynTec LynTec 0 Lighting Control Panelboard Lighting Control Panelboard Control Contro Board High voltage interior may be field inverted for top feed MODEL NUMBERS MODEL NUMBERS 1 1 LCP 341-10-Mxxx LCP 341-10-M400 (Up to 10 DMX controlled circuits) (Up to 10 DMX controlled circuits) Control Board Contro Board LCP 341-20-Mxxx LCP 341-20-M400 (Up to 20 DMX controlled circuits) 2 (Up to 20 DMX controlled circuits) 2 LCP 341-30-Mxxx LCP 341-30-M400 (Up to 30 DMX controlled circuits) (Up to 30 DMX controlled circuits) Contro Control LCP 341-40-M400 LCP 341-40-Mxxx 3 3 (Up to 40 DMX controlled circuits) (Up to 40 DMX controlled circuits) LCP 341-50-M400 LCP 341-50-Mxxx Control Board Contro Board (Up to 41 DMX controlled circuits -(Up to 41 DMX controlled circuits limited by 42 circuit code rule) limited by 42 circuit code rule) Enclosure ground bar 4 DMX CONTROL POWER 4 23 position 14-4 ga. supplie Square D NQOD-NL MB Panel Square D NQOD MB Panel 2 X N with LynTec low-voltage sidecar. with LynTec low-voltage sidecar. Control Board Ċ₿Ă Contro Board Standard LCP-225A Main Breaker: 225 Amp. - 65k AIR - MJG36225 Standard LCP 400A Main Breaker:

Square D MJG36xxx or MHG36xxx series (all 65k AIR) [Amps Interrupt Rating]

Main Breaker options Part# suffix - Bold face = Amps

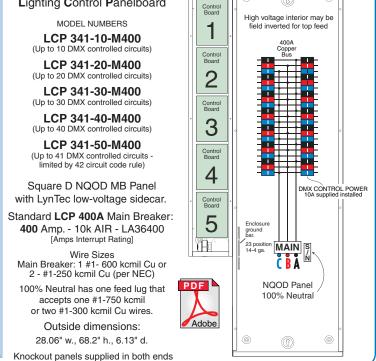
-MHG3125, -MJG3150, -MJG3175 or -MJG3200 Wire Sizes Main Breaker: 3/0 - 350 kcmil Al/Cu

200% Neutral has one feed lug that accepts 2 - 250 kcmil Cu wires

139-0370-02 2

0370-02.2.eps 5 NQOD-NL Panel 200% Neutral 0 Ϋ́́́Τ Outside dimensions 28.06" w., 50" h., 6.13" d. Knockout panels supplied in both ends

Adobe



LCLC 341-xx-Mxxx Lighting Control Load Center 3Ø, 208Y/120 Vac, 4 wire. – 225 Amp Main Breaker Standard

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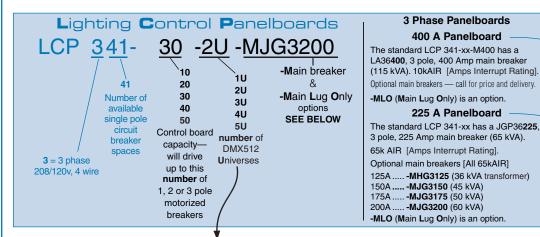
Specifier's Guide for LynTec Lighting Control Panels

Load Center and Panelboard part number explanation

Load Center - Panelboard - What's the difference?

Panelboards are the electrician's choice because they have 3 times the wiring space. Panelboards are used when bolt-on breakers, 200% neutrals or high circuit counts are required.

Load Centers are typically used where the circuit count isn't high, offering the lowest cost.



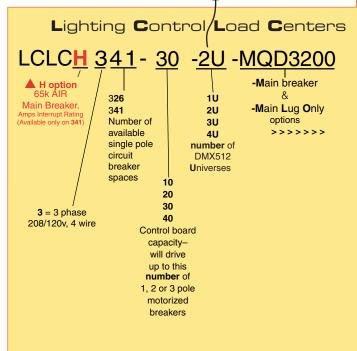
Multiple DMX512 Universe Option

LynTec Lighting Control panels have the option of multiple universe control. All LC-10 boards service up to 10 - one, two or three pole motorized breakers. The first/top control board is always a LC-10M Master board. The Master board has the opto-isolated DMX512 input and opto-isolated, buffered, feed-thru output components.

In a standard one-universe system, the subsequent boards are slaves. The lower-cost, LC-10S Slave boards have their own starting address, but derive their opto-isolated DMX data from the Master board above.

When multiple universes are desired, two or more LC-10M Master boards are supplied.

Each universe requires a Master board. Any Master may have one or more subsequent slaves. See page 3 for possible board counts in each type panel.



Please include Branch Breakers to complete your specification.

Load Center Main **Breaker Options**

3 Phase Panelboards

400 A Panelboard

225 A Panelboard

Large 3 Phase Load Center The standard LCLC 341-xx has a factory installed, 3 pole, 225 Amp main breaker (65 kVA transformer) [25kAIR Amps Interrupt Rating]

Optional main breakers [All 65kAIR] 150A -MQD3150 (45 kVA) 175A -MQD3175 (50 kVA) ... -MQD3200 (60 kVA) 200A

-MLO (Main Lug Only) option: We only stock LCLC panels with main breakers. If your specification requires a -MLO we will provide it at the same price

as the standard panel. Higher Interrupt Current Option

LoadCenter: QGL32xxx series 65k AIR main breaker— 150,175, 200 or 225A Add the H to the model type. Example: LCLCH 341.

Small 3 Phase Load Center

The standard LCLC 326-xx has a bracketretained, clip-on, back-fed, 3 pole, 100 Amp main breaker

Optional main breaker sizes available:

- © 30A-M3030 (7.5 kVA transformer)
- 35A-M3035 (10 kVA)
- **★** 50A**-M3050** (15 kVA) ✤ 70A•M3070 (20 kVA)
- + 90A-M3090 (25 kVA)
- 0 30A & 35A: 10kAIB

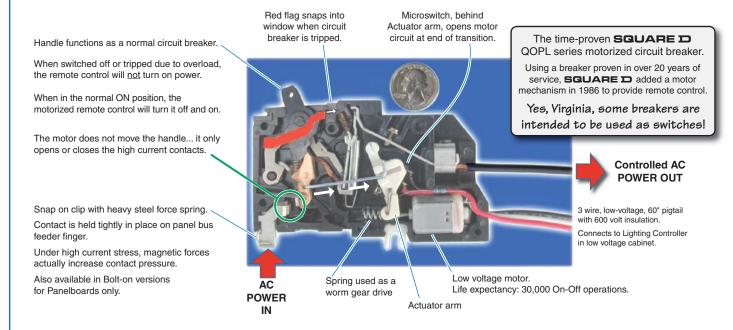
✤ 50A up: 22kAIR (Amps Interrupt Rating)



RBLC-10 or RBLC-20 10 or 20 circuit Remote Breaker Lighting Controller

Provides DMX control for any Square D QO panel by using BMB or MB breakers.

The UL listed heart of the LynTec Lighting Control and Sound Sequencing Panels



Field installed, UL & CSA listed, motorized circuit breakers are required to complete the Lighting Control Panel package.

BLUE TYPE = Bolt-on breakers for Panelboards ONLY — Clip-on breakers fit Load Centers or Panelboards



BMB-15 Bolt-on Motorized Breaker, Square D #QOB115PL-5393 MB-15 Clip-on Motorized Breaker, Square D #QO115PL-5393 One pole, 15 Amps. Special 60" leads. Square D trip curve: 730-4

BMB-20 Bolt-on Motorized Breaker, Square D #QOB120PL-5393 **MB-20** Clip-on Motorized Breaker, Square D #QO120PL-5393 One pole, 20 Amps. Special 60" leads. Square D trip curve: 730-4 15 and 20 Amp breakers have a HM, (High Magnetic) rating. HM reduces nuisance breaker trips on high inrush loads.

BMB-220 Bolt-on Motorized Breaker, Square D #QOB220PL-5393 **MB-220** Clip-on Motorized Breaker, Square D #QO220PL-5393 Two pole, 20 Amps. Special 60" leads. Square D trip curve: 730-4 15 and 20 Amp breakers have a HM, (High Magnetic) rating. HM reduces nuisance breaker trips on high inrush loads.

BMB-30 Bolt-on Motorized Breaker, Square D #QOB130PL-5393 MB-30 Clip-on Motorized Breaker, Square D #QO130PL-5393 One pole, 30 Amps. Special 60" leads. Square D trip curve: 730-5

BMB-230 Bolt-on Motorized Breaker, Square D #QOB230PL-5393 MB-230 Clip-on Motorized Breaker, Square D #QO230PL-5393 Two pole, 30 Amps. Special 60" leads. Square D trip curve: 730-5

3 pole Bolt-on and Clip-on Motorized Breakers are also available on special order. — Call 800-724-4047 for price and delivery.

UnMotorized circuit breakers for un-controlled circuits

BUMB-10, **-15**, **-20** or **-30** are Bolt-on, 10, 15, 20 or 30 amp single pole. Square D QOB110, QOB115HM, QOB120HM or QOB130. — 15s & 20s are High Magnetic.

UMB-10, -15, -20 or -30 are Clip-on, 10, 15, 20 or 30 amp single pole. Square D QO110, QO115HM, QO120HM or QO130. — 15s & 20s are High Magnetic.



Instruction Bulletin

ECN N353

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

A 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

🛕 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.

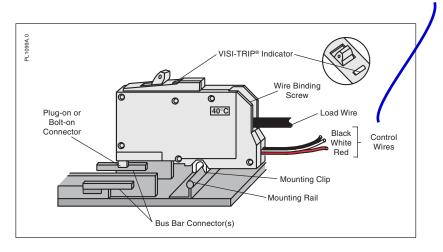
The required power supply ampacity and control device contact rating are determined by the number of circuit breakers to be switched simultaneously (i.e., four circuit breakers switched simultaneously require a power supply and a control device contact rated 8 amperes minimum). The control device may 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. All LynTec
- Before installing circuit breaker turn circuit breaker handle to OFF position.

supplied breakers have special 60" control wires. (Square D standards

 Remove panelboard cover and deadfront. Verify power is off with voltage meter before proceeding.

Installation of circuit breaker into panelboard/load center (refer to standards figure below) are 18".)



 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."

CIRCUIT BREAKER INSTALLATION

CAUTION

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 LCLC, LCP, MSLC, MSP, SLC 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 ****BMB-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 00-330PL-5393 BMB-330 = 30 Amp. square D 00B-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. [AlI BMB & MB-315 and BMB & MB-3205 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

Square D Company 3700 Sixth Street SW Cedar Rapids IA 52404 USA 1-888-SquareD (1-888-778-2733) www.SquareD.com



- 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.

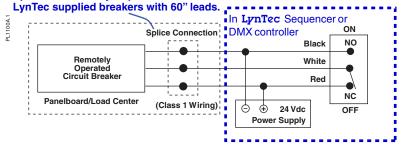
NOTE: The remote mechanism will not move the circuit breaker handle. Also, the remote mechanism cannot turn power ON when the circuit breaker is tripped (VISI-TRIP[®] flag indicator showing) or when the circuit breaker handle is in the OFF position.

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 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



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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Series Ratings

For NQOD and NF Panelboards Class 1630, 1670

SQUARE D www.SquareD.com For the most up-to-date information

This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure. NOOD Series Batings

-	iystem c	: Circuit Current mmetrical)				Breaker Desi le Ampere R ab	
-	s ystem c	suit Cu etrical)		1			
-	Maximum System Voltage AC c	Maximum Short Circ Rating (RMS Symme	Integral or Remote Main Circuit Breakers and Remote Main Fuses	Туре	1-pole	2-pole	3-pole
		22k	MG	QO (B)	15–30 A		
	120/	42k	HD, JD	QO (B) PL	15–30 A	15–60 A	15–30 A
	240 1Ø	65k	HG, JG	QO (B) PL	15-30 A	15-60 A	15-30 A
		100k 125k	HJ, JJ HL, JL	QO (B) PL QO (B) PL	15–30 A 15–30 A	15–60 A 15–60 A	15–30 A 15–30 A
-	120/ 240	1201	DJ 400 A	QO (B) QO (B) GFI QO (B) VH QO (B) AFI	15–70 A 15–30 A 15–20 A	15–125 A 40–60 A 150 A 	 15–150 A
	1Ø 208Y/ 120	100k	QJ	QO (B) QO (B) AS QO (B) GFI QO (B) PL QO (B) VH QO (B) AFI	15–70 A 15–30 A 15–30 A 15–30 A 15–20 A	15–125 A 15–30 A 15–60 A 15–60 A 150 A 	15–30 A 15–30 A 15–30 A 35–150 A
LynTec	208Y/ 120	18k	LA/LH (L) 34200MC LA/LH (L) 34225MC LA/LH (L) 34250MC LA/LH (L) 34400MC	QO (B)	15–30 A	15–30 A	15–30 A
models LCLC 320 MSLC 32 MSLC 33	6 8	22k	UMB-xx QO (B) VH MB-xx	QO (B) QO (B) AS QO (B) GFI QO (B) PL QO (B) AFI	15–70 A 15–30 A 15–30 A 15–30 A 15–30 A 15–20 A	15–125 A 15–30 A 15–60 A 15–30 A 	15–100 A 15–30 A
MSP 338 MSP139		22k	Q2-Hf	QO (B) QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–20 A	15–100 A 15–30 A 	15–30 A
LynTec models LCLC 34 MSLC 34	11	25k	QD MB-xx	QO (B) QO (B) AS QO (B) GFI QO (B) PL QO (B) VH QO (B) AFI	15–70 A 15–30 A 15–30 A 15–30 A 15–30 A 	15–125 A 15–30 A 15–60 A 15–60 A 15–60 A 	15–30 A 15–30 A 15–30 A 35–150 A
LynTe models		25k	ED, FDf	QO (B) QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–20 A	15–125 A 15–60 A 	15–100 A
MSLC 1 MSLC 1 are seri	29	25k	KDf	QO (B) QO (B) AS QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–30 A 15–20 A	15–125 A 15–30 A 15–60 A 	15–100 A 15–30 A
rated 22 AIR. See QO130M	2k	25k	HD, JD	QO (B) QO (B) VH QO (B) GFI QO (B) AFI QO (B) H QOB2150VH	15–70 A 15–30 A 15–20 A 	15–125 A 15–60 A 15–100 A 150 A	15–100 A 35–150 A
on pg 1 of Dige			LA, MA	Q2L-Hf QDL		110–225 A 70–225 A	110–225 A 70–225 A
173.		42k	MG	QO (B) VH	15–30 A	15–30 A	15–30 A
			HD, JD	QO (B) PL	15–30 A	15–60 A	15–30 A
S	240	42k	LC 600 A Maximum	QO (B) QO (B) VH QO (B) GFI QO (B) AFI	15–70 Ad 15–30 A 15–30 Ae 15–20 A 15–30 A	 15–125 A 15–60 A 	15–100 Å (3P 208 V Max.) 15–100 A (3P
PANELBOARDS		65k		QO (B) VH QO (B) GFI QO (B) AFI	15–30 A 15–30 Ae 15–20 A	15–125 A 	208 V Max.)
ANEL		65k	DJ 400 A	QO (B) QO (B) VH QO (B) H	15–70 A 	15–125 A 150 A 15–100 A 15–125 A	15–150 A 15–100 A
8		65k	EG, FGf , KGf	QO (B) QO (B) GFI QO (B) AFI QO (B)	15–70 A 15–30 A 15–20 A 15–70 A	15–125 A 15–60 A 15–125 A	15–100 A 15–30 A
		65k	QG BMB-xx QG,HG, JG	QO (B) AS QO (B) VH QO (B) GFI QO (B) PL	15–30 A 15–30 A 15–30 A	15–30 A 15–60 A 15–60 A	15–30 A 35–150 A 15–30 A
LynTec		65k/	BUMB-xx	QO (B) AFI QO (B) QO (B) VH	15–30 A 15–70 A	 15–125 A 	15–100 A 35–150 A
models MSLCH 34 MSP 141	~ ~	\vdash	HG, JG FCL22 KCL22	QO (B) H QOB2150VH QO (B) QO (B) AS	 15–70 A 15–30 A	15–100 A 150 A 15–100 A 15–30 A	 15–100 A 15–30 A
LCP 341 MSP 341		65k	FCL32 KCL32 400 A Max. Class J	QO (B) GFI QO (B) AFI QO (B) VH	15–30 A 15–20 A 15–30 A	15–30 A 15–125 A	 15–100 A
/	/	65k 100k	or T6 Fuses FCL24 KCL24	QOB-VH QO (B) AFI QO (B) QO (B) AS	15–20 A 15–70 A 15–30 A	150 A 15–100 A 15–30 A	 15–100 A 15–30 A
		100k	FCL34 KCL34 200 A Max. Class T3 Fuses	QO (B) GFI QO (B) AFI QO (B) AFI	15–30 A 15–20 A 15–20 A	15–30 A 	
		100k	EJ, FJf	QO (B) QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–20 A	15–125 A 15–60 A 	15–100 A
		- x xx [1 po [2 po [3 po [3 po QOx - x xx [1 po	Exxx (B) = BUM = poles. xxx = tri le] BUMB-15, E le] BUMB-215, le] BUMB-315, xx = UMB serie = poles. xxx = tri le] UMB-15, UM le] UMB-215, U	p current. BUMB-20, BUMB-22 BUMB-32 s clip-on, p current. IB-20, UM	BUMB-3 0, BUME 0, BUME UnMotori IB-30	0 -230 -330 zed Brea	

[3 pole] UMB-315, UMB-320, UMB-330

All 15 & 20 A breakers are **HM** (High Magnetic)

		<i>(</i> •
NQOD Sei	ries Ratings	(Continued)

NF Series Ratings

Maximum System Voltage AC c	Current al)	Integral or Remote Main Circuit Breakers and Remote Main Fuses	Branch Circuit Breaker Designations and Allowable Ampere Ranges ab				
	Maximum Short Circuit Current Rating (RMS Symmetrical)		Туре	1-pole	2-pole	3-pole	
240	100k	HJ, JJ	QO (B) QO (B) VH QO (B) GFI	15–70 A 15–30 A	15–125 A 15–60 A	15–100 A 35–150 A	
	125k	HL. JL	QO (B) PL QO (B) AFI QO (B) H QOB2150VH	15–30 A 15–30 A 15–20 A 	15–60 A 15–100 A 150 A	15–30 A 	
	200k	FI, KI	QO (B) QO (B) AS QO (B) GFI QO (B) AFI	15–70 A 15–30 A 15–30 A 15–20 A	15–125 A 15–30 A 15–60 A 	15–100 A 15–30 A 	
	200k	Maximum Fuses 200 A Class J or T6 400 A Class T3	QO (B) QO (B) AS QO (B) GFI	15–70 A 15–30 A 15–30 A	15–125 A 15–30 A 15–60 A	15–100 A 15–30 A 	

Suffixes HID, SWD and SWN may also be applied to the applicable branch circuit breakers shown above, except suffix SWN may NOT be applied in combination with LC main circuit breakers

Generation of the second second

Maximum System Voltage AC	Maximum Short Circuit Current Rating (RMS Symmetrical)	Main Type	Branch Type	Poles		
	65,000	EG, FH, FGf , KH, LH, MH, MX, HG, JG	EDB, EDB-EPD			
		EG	ECB-G3			
	100,000	EJ, FC, FJf , KC, LC, LX, HJ, JJ	EDB, EDB-EPD, EGB			
240		EJ, FC, KC, HJ, JJ	ECB-G3	1,2&3		
	125,000	HL, JL	EDB, EDB-EPD, EGB, ECB-G3	.,		
	200,000	FI, KI, LI, LXI	EDB, EDB-EPD, EGB, EJB			
		FI, KI	ECB-G3			
	35,000	EG, FGf , KH, LH, HG, JG	EDB, EDB-EPD			
	55,000	EG, HG, JG	ECB-G3			
480Y/277		EJ, FC, FJf , KC, LC, LX, HJ, JJ	EDB, EDB-EPD, EGB			
		EJ, FC, KC, HJ, JJ	ECB-G3	1,2&3		
		HL,JL	EDB, EDB-EPD, EGB			
		FI, KI, LI, LXI	EDB, EDB-EPD, EGB, EJB			
		FI, KI	ECB-G3			
	18,000	HG, JG, MG	EDB, EDB-EPD			
	25,000	EJ, FI, KH, KL, LC,. LE, LX, LI, LXI, HJ, JJ	EDB, EDB-EPD, EGB	1, 2, 3		
		LH	EDB(15-70 A), EGB			
600Y/347	35,000	LC, LE	EDB, EDB-EPD, EGB, EJB			
	50,000	HL, JL	EDB, EDB-EPD, EGB]		
	65,000	FI, KI	EDB, EDB-EPD, EGB, EJB			
		LI, XI	EJB			
		Remote Main Fuse				
240	200,000	200 Ampere Maximum Class J or T (600V)	ECB-G3	1,2&3		
	100,000	400 Ampere Maximum Class J or T (600V)	EDB, EDB-EPD, EGB, EJB	1,2&3		
480Y/277	200,000	200 Ampere Maximum Class J or T (600V)	EDB, EDB-EPD, EGB, EJB			
	200,000	200 Ampere Maximum Class J or T (600V)	ECB-G3]		
600Y/347	200,000	200 Ampere Maximum Class J or T (600V)	EDB, EDB-EPD, EGB, EJB	1,2&3		

QOBPLxxx-5393 = BMB series Bolt-on, Motorized. (REMOTELY OPERATED) -xxx = poles. xxx = trip current. -5393 suffix denotes special 60" control wires.

[1 pole] BMB-15, BMB-20, BMB-30

[2 pole] BMB-215, BMB-220, BMB-230, BMB-240, BMB-250, BMB-260 [3 pole] BMB-315, BMB-320, BMB-330

QOPLxxx-5393 = MB series clip-on, **M**otorized. (REMOTELY OPERATED) -**x**xx = poles. x**xx** = trip current. **-5393** suffix denotes special 60" control wires.

[1 pole] MB-15, MB-20, MB-30

[2 pole] MB-215, MB-220, MB-230, MB-240, MB-250, MB-260 [3 pole] MB-315, MB-320, MB-330

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