

Siemens would like to welcome the Murray Electrical Products into the Speedfax. The Murray Electrical Products catalog and Siemens Speedfax has been combined for our customer's convenience. All of the Murray-branded product is located in section 3 so Murray customers will not have to sort thru the entire Speedfax to find associated products. Customers can now select Murray and Siemens products without having to flip between catalogs.

Murray products have a rich tradition of quality & reliability that still lives on today. At the heart of the Murray offering is the Rock Solid load center—designed for those customers that prefer an out-board neutral design & metal basepan for installing breakers. The Rock Solid load center & Murray products remain an important part of the Siemens portfolio. Siemens is proud to carry on the tradition Murray started in 1899.

**MURRAY**

## Contents

<b>Load Centers</b>	<b>3-2 – 3-12</b>
<b>Circuit Breakers</b>	<b>3-13 – 3-24</b>
Arc-Fault Interrupters (AFCI)	3-13
1" Plug-in	3-14 – 3-15
Circuit Breaker and Surge Protective Device (SPD)	3-16
Special Application Breakers	3-17
Type MSQ, 3/4 Inch Plug-In Breakers	3-18
Main and Branch Circuit Breakers	3-19
Accessories	3-20 – 3-21
Molded Case 60 – 225 AMP	3-22
<b>Combination Meter Sockets</b>	<b>3-25 – 3-33</b>
100A-400A Meter Mains	3-27
150A-200A Over-Under Construction	3-28
100A-400A Meter Load Centers	3-29
125A-400A EUSERC Side-By-Side Construction	3-30
100A-225A EUSERC Meter Load Center	3-31
400A EUSERC Side-By-Side Construction	3-32
<b>Group Metering: NYC Gangable Metering</b>	<b>3-34 – 3-38</b>
<b>Safety Switches</b>	<b>3-39 – 3-54</b>
General Information	3-39
Technical Information	3-40
General Duty – Compact	3-41
Stand-by Power Switches	3-41
General Duty Switches	3-42
Heavy Duty Switches	3-43–3-45
VBII Type Double Throw Switches	3-46
Protector-Lock® Switches	3-47
Accessories & Lug Data	3-48–3-49
Dimensions and Knockout Diagrams	3-50–3-54

# Rock Solid Load Centers

## Features

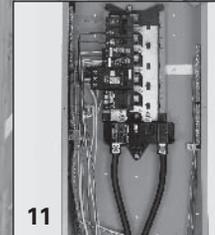
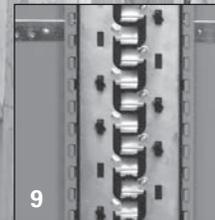
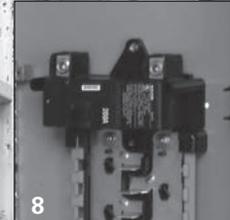
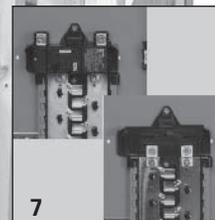
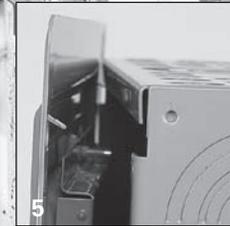
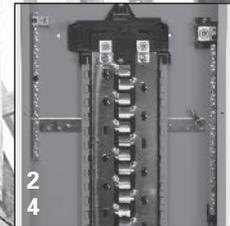
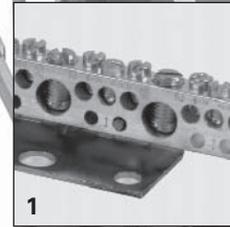
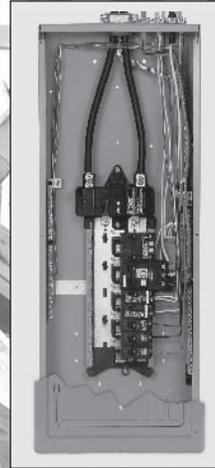
3

MURRAY

Load Centers

The Murray Rock Solid Load Center is the highest quality, most versatile design in the industry. Features on the Rock Solid Load Center include:

1. "Swiss Cheese" style neutral bars provide multiple 1/0 connection points.
2. All units include factory installed ground bar and isolated neutral.
3. With the use of the included bonding strap, ground bars and neutral bars can be bonded for service entrance applications.
4. Outboard neutral and groundbars allow for all neutral and ground connections to be located away from breaker connections, making for a neat, clean installation.
5. Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.
6. Combination head screw on trim and upper pan screws provide installation flexibility.
7. All devices are convertible from main lug to main breaker or vice versa with the addition of main breaker or main lug kits.
8. All main breakers are straight in wired – no back feeding required.
9. A rigid, sturdy base pan with metal hook rails provides the most rugged breaker connection in the industry.
10. The outdoor enclosure has a slide hinge door for the easiest of installation and can be removed by backing out only one screw.
11. All indoor Rock Solid Load Centers are invertible for bottom feed applications.



The following offering is available in the Murray line:

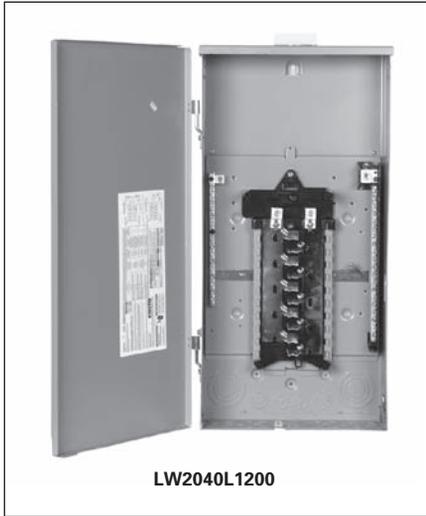
- 12-60 Circuits/Spaces
- Indoor and outdoor enclosures
- 100 to 225 Amp
- Main lug and main breaker
- Value packs - a mix of branch breakers provided with the load center

# Rock Solid Load Centers<sup>①</sup>

• Revised •  
02/26/12

**MURRAY**

## Main Lug Only, 1Ø, 65,000 AIC<sup>②</sup>, Main Lug Panels 3-Wire 120/240V AC or 208Y/120V AC, Insulated and Bonded Split Neutrals



Load centers on this page through 225 amp feature a split neutral insulated bars. For service entrance applications, install bonding strap, and use both bars for neutral and ground conductors. For non service entrance applications, do not install bonding strap and use insulated bars for neutral conductors and bonded bar for ground conductors.

### 12-42 Circuit, 125–225 Amperes

Amps Max.	No. of Spaces	Max. Circuit	Indoor Type 1 <sup>③</sup>			Outdoor Type 3R <sup>③④</sup>			Dimensions <sup>⑤</sup>		
			Catalog Number	Height	Width	Depth	Catalog Number	Height	Width	Depth	
125	12	24	LC1224L1125	21	14 $\frac{3}{8}$	4	LW1224L1125	20	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
125	16	32	LC1632L1125	21	14 $\frac{3}{8}$	4	LW1632L1125	29	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
125	20	40	LC2040L1125	24	14 $\frac{3}{8}$	4	LW2040L1125	29	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
125	30	40	LC3040L1125	30	14 $\frac{3}{8}$	4	—	—	—	—	
150	16	32	LC1632L1150	24	14 $\frac{3}{8}$	4	—	—	—	—	
150	24	40	LC2440L1150	30	14 $\frac{3}{8}$	4	—	—	—	—	
200	12	24	—	—	—	—	LW1224L1200	29	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
200	20	40	LC2040L1200	30	14 $\frac{3}{8}$	4	LW2040L1200	29	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
200	24	40	LC2440L1200	30	14 $\frac{3}{8}$	4	—	—	—	—	
200	30	40	LC3040L1200	36	14 $\frac{3}{8}$	4	LW3040L1200	38	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
200	40	40	LC4040L1200	39	14 $\frac{3}{8}$	4	—	—	—	—	
225	40	60	LC4060L1225	39	14 $\frac{3}{8}$	4	—	—	—	—	

### Copper Bus<sup>④</sup>

Amps Max.	No. of Spaces	Max. Circuit	Indoor Type 1 <sup>③</sup>			Outdoor Type 3R <sup>③</sup>			Dimensions <sup>⑤</sup>		
			Catalog Number	Height	Width	Depth	Catalog Number	Height	Width	Depth	
125	20	40	LC2040L1125CU	24	14 $\frac{3}{8}$	4	—	—	—	—	
200	20	40	LC2040L1200CU	30	14 $\frac{3}{8}$	4	—	—	—	—	
200	30	40	LC3040L1200CU	36	14 $\frac{3}{8}$	4	—	—	—	—	
200	40	40	LC4040L1200CU	39	14 $\frac{3}{8}$	4	—	—	—	—	
225	12	24	—	—	—	—	LW1224L1225CU	29	14 $\frac{1}{4}$	4 $\frac{1}{2}$	
225	42	42	LC4242L1225CU	42	14 $\frac{3}{8}$	4	LW4242L1225CU	42	14 $\frac{1}{4}$	4 $\frac{1}{2}$	

① Convertible to main breaker by using the following main breaker kits:  
100A load centers: MBK100M only.  
125A load centers: MBK100M and MBK125M only.  
150A load centers: MBK150M only.  
200A load centers: MBK150M and MBK200M only.  
225A load centers: MBK150M, MBK200M, and MBK225M only.

② 100-225A only.

③ Standard package quantity equal to 1.

④ Dimensions shown are representative of outside box length, width & depth ( $\pm \frac{1}{8}$ ") and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1 $\frac{1}{2}$ " additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

⑤ Hub provision only. Closure plate included. Panels through 225A require HS type hub; panels over 225A require HV type hub. See accessories page 3-8 for hub selection.

⑥ Copper bus load centers are recommended for those applications where the environment may be severe (ie farm and coastal areas).

# Rock Solid Load Centers

## Main Breaker, 10, 22,000 AIC<sup>①</sup>



LC2040B1200

Load centers on this page through 200 amp feature a new split neutral with one bonded and one insulated bar. For service entrance applications, install bonding strap, and use both bars for neutral and ground conductors. For non service entrance applications, do not install bonding strap and use insulated bar for neutral conductors and bonded bar for ground conductors.

### Load Center Short Circuit Current Rating

Murray load centers have UL recognized short circuit current ratings up to 100,000 Amps, when used with appropriate main or feeder (remote or internal) overcurrent devices. Load center ratings are shown below. For load center applications with residential or commercial metering equipment, refer to the appropriate catalog section.

10, main breaker load centers are Underwriter's Laboratories Listed for use with 60/75°C conductors and accept Murray branch circuit breakers which are also UL Listed for use with 60/75°C conductors. Type 3R load centers are furnished with a hub opening closure plate.

### Load Center Short Circuit Current Rating

Load Center Short Circuit Current Rating <sup>②</sup>	Load Center Main Rating	Internal or Remote Main or Feeder Circuit Breaker Type
10,000 AIC	Any	Any
22,000 AIC	100/125A	MP-HT, MQH <sup>③④</sup>
	150/200/225A	MD-H, MQH <sup>③④</sup> , MPP-HT <sup>③</sup>
42,000 AIC	100/125A	MQL <sup>③④</sup>
	150/200/225A	MQL <sup>③④</sup>
65,000 AIC	100/125A	MP-MT, MPP-MT <sup>③</sup>
	150/200/225A	MPP-MT <sup>③</sup>
100,000 AIC	100/125A	100A, 300V AC, Class "T" Fuse <sup>③</sup>
100,000 AIC	150/200/225A	200A, 300V AC, Class "T" Fuse <sup>③</sup>

## 12-42 Circuit, 100-200 Amperes

Amps Max.	No. of Spaces	Max. Circuit	Catalog Number	Dimensions <sup>⑤</sup>			Outdoor Type 3R <sup>⑥⑦</sup>	Dimensions <sup>⑤</sup>		
			Indoor Type 1 <sup>②</sup>	Height	Width	Depth	Catalog Number	Height	Width	Depth
100	12	24	LC1224B1100	18	14 $\frac{3}{8}$	4	LW1224B1100	23	14 $\frac{3}{8}$	4 $\frac{1}{2}$
100	16	32	—	—	—	—	LW1632B1100	23	14 $\frac{3}{8}$	4 $\frac{1}{2}$
100	20	40	LC2040B1100	24	14 $\frac{3}{8}$	4	—	—	—	—
100	24	40	LC2440B1100	24	14 $\frac{3}{8}$	4	—	—	—	—
100	30	40	LC3040B1100	30	14 $\frac{3}{8}$	4	—	—	—	—
150	16	32	LC1632B1150	24	14 $\frac{3}{8}$	4	—	—	—	—
150	20	40	LC2040B1150	30	14 $\frac{3}{8}$	4	LW2040B1150	29	14 $\frac{3}{8}$	4 $\frac{1}{2}$
150	24	40	LC2440B1150	30	14 $\frac{3}{8}$	4	—	—	—	—
150	30	40	LC3040B1150	36	14 $\frac{3}{8}$	4	—	—	—	—
200	12	24	—	—	—	—	LW1224B1200	29	14 $\frac{3}{8}$	4 $\frac{1}{2}$
200	16	32	LC1632B1200	30	14 $\frac{3}{8}$	4	—	—	—	—
200	20	40	LC2040B1200	30	14 $\frac{3}{8}$	4	LW2040B1200	29	14 $\frac{3}{8}$	4 $\frac{1}{2}$
200	24	40	LC2440B1200	30	14 $\frac{3}{8}$	4	—	—	—	—
200	30	40	LC3040B1200	36	14 $\frac{3}{8}$	4	LW3040B1200	38	14 $\frac{3}{8}$	4 $\frac{1}{2}$
200	40	40	LC4040B1200	39	14 $\frac{3}{8}$	4	LW4040B1200	38	14 $\frac{3}{8}$	4 $\frac{1}{2}$
200	30	54	LC3054B1200	36	14 $\frac{3}{8}$	4	—	—	—	—
200	40	40	LC4040B1200	39	14 $\frac{3}{8}$	4	—	—	—	—
200	40	60	LC4060B1200	40 $\frac{1}{2}$	15 $\frac{3}{8}$	5	—	—	—	—

## Copper Bus<sup>⑧</sup>

Amps Max.	No. of Spaces	Max. Circuit	Indoor Type 1 <sup>②</sup> Catalog Number	Dimensions <sup>⑤</sup>		
				Height	Width	Depth
100	20	40	LC2040B1100CU	24	14 $\frac{3}{8}$	4
200	20	40	LC2040B1200CU	30	14 $\frac{3}{8}$	4
200	30	40	LC3040B1200CU	36	14 $\frac{3}{8}$	4
200	40	40	LC4040B1200CU	39	14 $\frac{3}{8}$	4

① 100-225A only.

② This information is based on use of 10,000 AIC rated branch circuit breakers in load center (MP-T, MH-T, MP-GT, MG). Most series ratings exclude MH-T above 40 Amp. Consult device wiring diagram for specific data.

③ Remote Only

④ Types MQH & MQL may be mounted internal in 150-225 amp 30 main breaker load centers.

⑤ Dimensions shown are representative of outside box length, width & depth ( $\pm\frac{1}{8}$ ") and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1 $\frac{1}{2}$ " additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

⑥ Hub provision only. Closure plate included. Panels through 225A require HS type hub; panels over 225A require HV type hub.

⑦ Standard package quantity equal to 1.

⑧ Copper bus load centers are recommended for those applications where the environment may be severe (ie farm and coastal areas).

# Load Centers

## Generator Ready, Riser, & 400A Load Centers

• Revised •  
02/26/12

**MURRAY**



### Generator Ready Load Center Features

- UL Listed
- Indoor Type 1 and outdoor Type 3R
- 225A max rated
- Flush or surface mounting
- Fits between standard stud centers
- Tin plated copper bus bars
- 22 kAIC rated
- 120/240V ~
- Main lug – convertible to main breaker with addition of MBK150M, MBK200M, or MBK225M
- Main breaker – convertible to main lug with use of lug kit part no. ECMLK225
- Installation of transfer mechanism can be performed at time of generator installation

### Generator Ready Load Centers (1phase)

Branch Circuits			Indoor Enclosure - NEMA Type 1			Outdoor Enclosure - NEMA Type 3R				
Amp Rating	No. of Spaces <sup>①</sup>	No. of Circuits <sup>①</sup>	Catalog Number	Dimensions (inches)			Catalog Number	Dimensions		
				H	W	D		H	W	D
200	30	42	LC3042B1200GEN	42	14.25	4	LW3042B1200GEN	42.00	14.63	4.00
225	30	42	LC3042L1225GEN	42	14.25	4	LW3042L1225GEN	42.00	14.63	4.00

### Riser Load Centers<sup>③</sup>

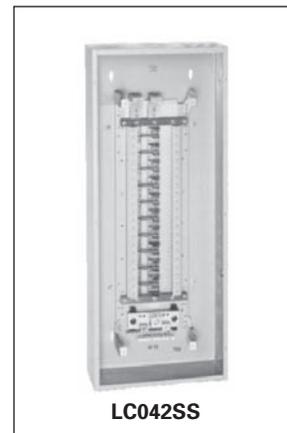
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Dimensions (inches)			Acceptable Main Breaker Kits
				H	W	D	
125	16	32	RC1632L1125CU	24	14.25	3.88	MBK100M, MBK125M
125	24	24	RC2424L1125CU	30	14.25	3.88	MBK100M, MBK125M
125	24	42	RC2442L1125CU	30	14.25	3.88	MBK100M, MBK125M
200	30	42	RC3042L1200CU	36	14.25	3.88	MBK150M, MBK200M

### 400A Main Breaker Load Centers (1phase & 3phase)<sup>②</sup>

No. of Phases	Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Dimensions (inches)			Catalog Number	Dimensions		
					H	W	D		H	W	D
1	400	30	40	LC330SS	47.00	20.00	6.00	—	—	—	
1	400	42	42	—	—	—	—	LW442SR	44.00	20.00	6.00
3	400	42	42	LP442SS	58.00	20.00	6.00	LZ442SR	58.00	20.00	6.00

### 400A Main Lug Load Centers (1phase & 3phase)<sup>②</sup>

No. of Phases	Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Dimensions (inches)			Catalog Number	Dimensions		
					H	W	D		H	W	D
1	400	42	42	—	—	—	—	LW042SR	47.00	20.50	6.50
3	400	42	42	LC042SS	47.00	20.00	6.00	LW942SR	52.00	22.00	8.00



① 2 spaces and 2 circuits are reserved for standby generator installation.

② 400 amp load centers have insulated groundable center-mounted neutrals.

③ See Section 1 for knock-out diagram.

# Load Centers

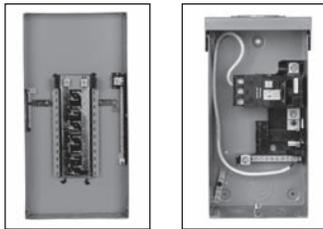
## Circuit Breaker Enclosures & Small Load Centers

Revised  
02/26/12

MURRAY



- Ideal for Narrow stud applications
- Eliminated "notching" needed for standard Load Centers
- Outdoor Load Center with factory installed Ground Fault Breaker
- Two extra circuits
- Factory installed feed-through lugs
- Main Breaker or Main Lug panels available



### Spa Panels

Ampere Rating	No. of Spaces	Max. Circuits	Catalog Number	Dimensions <sup>®</sup>		
				Height	Width	Depth
125	2	4	LW004NRSPA50 <sup>®</sup>	12 <sup>1</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>
125	2	4	LW004NRSPA60 <sup>®</sup>	12 <sup>1</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>

### Renovation Panels - 3 Wire 120/240V AC

200	24	40	LC024PFR	30	14	3 <sup>5</sup> / <sub>8</sub>
100	10	20	LC110DFCGP <sup>®</sup>	14 <sup>3</sup> / <sub>4</sub>	12 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>

### Outdoor<sup>①</sup> Trailer Panels - 120/240V AC 208Y/120V AC

Amps Max	No. of Spaces	Max. Circuits	Indoor Type 1 Catalog No.	Dimensions <sup>®</sup>			Main Breaker	
				Height	Width	Depth		
100	2	4	LW102NL <sup>®</sup>	12 <sup>1</sup> / <sub>2</sub>	6	4 <sup>1</sup> / <sub>4</sub>	MP2100	Factory
200	4	8	LW204TL <sup>®</sup>	20	11 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	MPD2200R	Factory
200	4	8	LW004TR <sup>®</sup>	20	11 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	MD-T(R), MD-HT(R)	Field
200	8	16	LW0816L1200TR <sup>®</sup>	29	14 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	MBK150M or MBK200M	Field

### 2-8 Circuit, 60-125 Amperes (no door)

Amps Max.	No. of Spaces	Max. Circuit	Indoor Type 1 Catalog Number <sup>®</sup>	Dimensions <sup>®</sup>			Outdoor Type 3R <sup>®</sup> Catalog Number	Dimensions <sup>®</sup>		
				Height	Width	Depth		Height	Width	Depth
60	2	4	LC002GS	9 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	LW002GR <sup>®</sup>	8 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>
100	3	3	LP003CS	17 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	—	—	—	—
125	2	4	LC002HS	17 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	LW002HR	8 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>
125	4	8	LC004NF	12 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	—	—	—	—
125	4	8	LC004NS	12 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	LW004NR	12 <sup>1</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>
200	2	4	LC004VS	19 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	4	LW004VR	19 <sup>1</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>
225	2	4	—	—	—	—	LW002QR	27	10 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>

### 8-16 Circuit, 125 Amperes (with door)

125	8	16	LC008DF	14 <sup>1</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	—	—	—	—
125	8	16	LC008DS	14 <sup>1</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	LW008NR	14 <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>
125	8	16	LC008DFG	14 <sup>1</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	—	—	—	—
125	8	16	LC008DSG	14 <sup>1</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	—	—	—	—

### Enclosed Breakers

100	2	4	LC100CS	17 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	LW100CR	17 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>
200	2	4	LC200VS	19 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	4	LW200VR	19 <sup>1</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>
225	3	3	—	—	—	—	LW903QR	27	10 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>

① Hub provision only. Closure plate included. Panels through 225A require HS type hub.

② Cover type is specified by character in 7th (usually last) position, as follows:

- S = Surface
- F = Flush
- C = Combination Surface/Flush

③ Dimensions shown are representative of outside box length, width & depth (±<sup>1</sup>/<sub>8</sub>" ) and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1<sup>1</sup>/<sub>2</sub>" additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

④ Use of 60A GFCI requires use of 75°C copper wire.

⑤ Use neutral lug kit ECLK1 or ECLK2 as required.

⑥ Panel includes factory-installed ground bar.

⑦ Maximum breaker 100A.

⑧ Uses HA type hub. Closure plate included.

⑨ For KO diagram, see Section 1 KO diagram for W0204ML1060

⑩ Accepts type MQ breakers.

⑪ For service entrance use only 200A max. main breaker. Main breaker must be field added.

⑫ LW102NL shipped with ECHS125 hub instead of closure plate. LW204TL shipped with ECHS200 hub instead of closure plate.

⑬ Two MP115 and one MP230 provided.

⑭ 50 Amp, 2-pole GFCI breaker installed.

⑮ 60 Amp, 2-pole GFCI breaker installed.

⑯ Uses ECHA hub type.

## Load Center OEM Interiors

### 1Ø: Small Circuit Main Lug Interiors

Amps	Catalog Number <sup>①</sup>	Circuits	Spaces	Dimensions	
				Height	Width
60	I0204ML1125	2	2	5.06	2.12
60	I0303ML3100	3	3	5.06	3.12
125	I0408ML1125	4	8	4.51	6.61
125	I0816ML1125CU	8	16	6.19	6.81
125	I0816ML1125CUSP	8	16	6.19	6.81
200	I0202L1200	4	4	3.88	7.13

### Rock Solid 1Ø: High Circuit Main Lug Interiors (no neutrals)<sup>③</sup>

Amps	Catalog Number <sup>①</sup>	Circuits	Spaces	Dimensions	
				Height	Width
125	IR1224L1125	12	24	10.80	7.40
125	IR1632L1125	16	32	12.80	7.40
125	IR2040L1125CU	20	40	14.80	7.40
125	IR3040L1125	30	40	20.80	7.40
200	IR0816L1200TR <sup>②</sup>	8	16	10.80	7.40
200	IR2040L1200CU	20	40	14.80	7.40
200	IR2440L1200	24	40	16.80	7.40
200	IR3040L1200CU	30	40	20.80	7.40
200	IR4040L1200CU	40	40	24.80	7.40
225	IR4242L1225CU	42	42	26.80	7.40

### Lug Data

Interior	Amperage	Wire range	Torque
I0204ML1060	60	2/0 - 4 AWG	45 lb. - ins.
I0303ML3100	100	2/0 - 4 AWG	45 lb. - ins.
I1224ML1100	100	2/0 - 4 AWG	45 lb. - ins.
I0408ML1125	125	2/0 - 4 AWG	45 lb. - ins.
I0816ML1125CU/CUSP	60	2/0 - 4 AWG	45 lb. - ins.
Rock Solid	125	2/0 - 4 AWG	110 lb. - ins.
Rock Solid	200/225	300 kcmil - 4 AWG	275 lb. - ins.

### Small circuit Interiors

The small circuit interiors are ideal for OEM applications requiring only a few circuits. They can also be purchased as replacement items for:

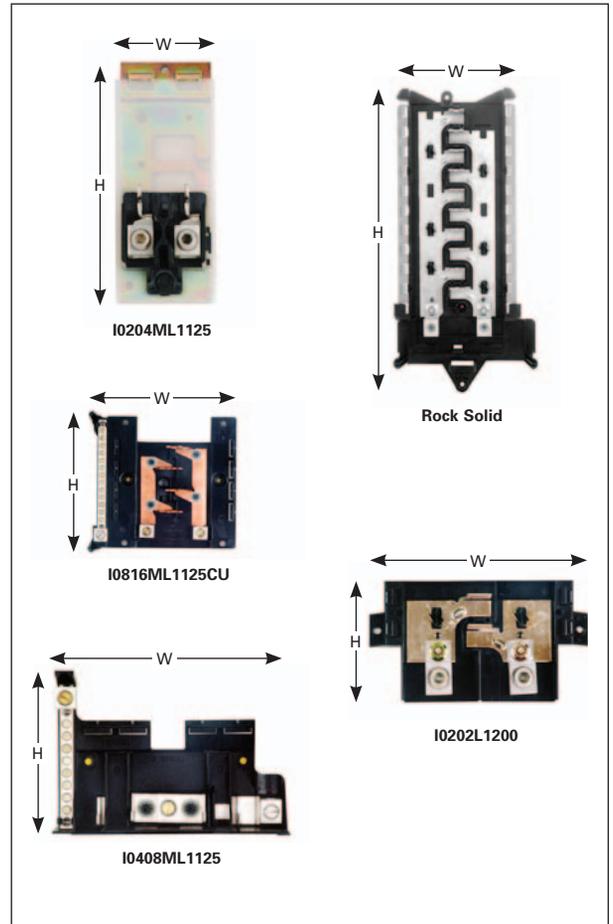
I0204ML1125 – Interior for LC100CS, LW100CR

I0303ML3100 – Interior for LP003CS

I0408ML1125 – Interior for L(C,W)004N(F,S,R)

I0816ML1125CU – Interior for L(C,W)008D(F,S,R)

I0202L1200 – Interior for JC0202 Meter Mains



① The letters "CU" in any catalog number represent copper bus bars.

② Feed thru lugs provided

③ Convertible to main breaker using the MBK main breaker kits

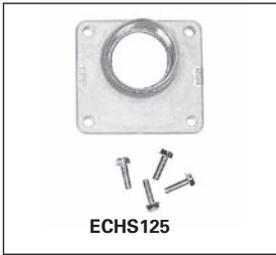
# Load Centers

## Electriccenter Accessories

• Revised •  
02/26/12

**MURRAY**

### Hubs



Catalog Number	Description	Pack Quantity
ECHS075	3/4" Hub	10
ECHS100	1" Hub	10
ECHS125	1 1/4" Hub	10
ECHS150	1 1/2" Hub	10
ECHS200	2" Hub	10
ECHS250	2 1/2" Hub	10

### Backfed Main Breaker Hold Down Kits



Catalog Number	Description	Pack Quantity
ECMBR2	For use on MP-T, MP-HT, & MP-MT breakers in Rock Solid Load Centers	25
ECMBR1	For use on MP-T, MP-HT, & MP-MT breakers in 2-8 circuit Load Centers	25
ECLX378M	For use on MD-T, MD-HT, & MD-MT breakers on old style (pre 2003) load centers (12-42 circuit)	25
ECLX386HD	For use on MP-T, MP-HT, & MP-MT breakers (15-60A) on old style (pre 2003) load centers (12-42 circuit)	25
ECLX387HD	For use on MP-T, MP-HT, & MP-MT breakers (70-125A) on old style (pre 2003) load centers (12-42 circuit)	25
ECLX388HD	For use on MP-T, MP-HT, & MP-MT breakers (100-125A) on old style (pre 2003) load centers (12-42 circuit)	25

### Miscellaneous



Catalog Number	Description	Pack Quantity
ECQFL2	Door lock for Rock Solid Load Centers	10
ECQF3	Filler plate (1")	10
ECMBF125	Filler plate for main breaker opening on 100-125A Rock Solid Load Centers. Use two QF3 filler plates for 150-225A load centers	25
LX077SF	Flush installation cover for 400A panels	1
ECTS2	6 Cover screws, combination cover	50 Bags
ECSMK1	Surface mount spacer kit provides 1/4" space between load center and wall	25

### Main Breaker Kits



Catalog Number	Description	Pack Quantity
MBK100M	100A—For use on 100 & 125A Rock Solid Load Centers only	1
MBK125M	125A—For use on 125A Rock Solid Load Centers only	1
MBK150M	150A—For use on 150, 200, & 225A Rock Solid Load Centers only	1
MBK200M	200A—For use on 200 & 225A Rock Solid Load Centers only	1
MBK225M	225A—For use on 225A Rock Solid Load Centers only	1
ECMLK125	1 PH Main Lug Conversion Kit 100-125A	1
ECMLK225	1 PH Main Lug Conversion Kit 150-225A	1

### Lug Kits

### Ground Bars and Insulated Neutral Kits



Catalog Number	Description	Pack Quantity
ECLK2SC	#2/0 max. lug for 125 amp neutral feeder for 12-42 circuit devices	50
ECLX384M	CB enclosure ground lug	20

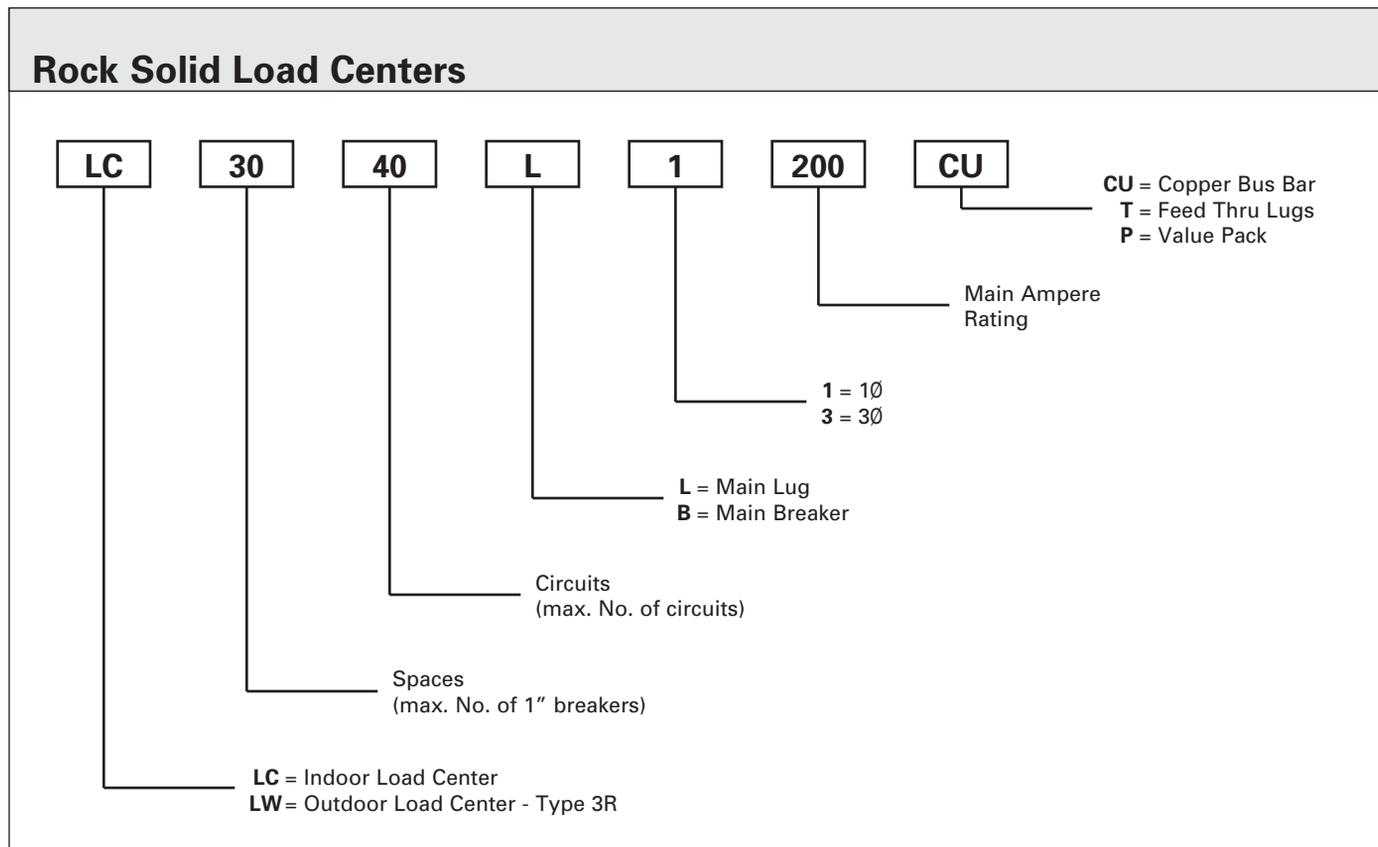
Catalog Number	Description	Pack Quantity
ECLX068M	4 small terminals—15/8" long	10
ECLX069M	5 small and 2 large terminals—3" long	10
ECLX071M	8 small and 3 large terminals—3 1/2" long	10
ECLX072M	11 small and 4 large terminals—4 5/8" long	10
ECLX073M	14 small and 5 large terminals—5 3/4" long	10
ECLX074M	17 small and 6 large terminals—7" long	10
ECLX075M	21 small and 7 large terminals—8" long	10
ECINSNB27	Insulated neutral bar with 27 positions	10
ECINSNB32	Insulated neutral bar with 32 positions	10
ECINSNB33	Insulated neutral bar with 33 positions and a 300 MCM lug	10
ECINSNB41	Insulated neutral bar with 41 positions and a 300 MCM lug	10
ECINSNB43	Insulated neutral bar with 43 positions	10

3

MURRAY

Load Centers

## Catalog Number Logic



3 MURRAY Load Centers

## Lug Data

Amps	Phase	Wire Range <sup>①</sup> Main Lug Load Centers	Main Breaker Load Centers
60	1Ø	14-4	
100	1Ø	—	3-1/0
125 (4 CKT) (6 CKT & Above)	1Ø	14-2/0	—
	1Ø	4-2/0	4-2/0
150	1Ø	1/0-4/0	4-250 kcmil

Amps	Phase	Wire Range <sup>①</sup> Main Lug Load Centers	Main Breaker Load Centers
200	1Ø	4-250 kcmil	4-250 kcmil
225	1Ø	4-300 kcmil	4-300 kcmil
400 (24 and 42 CKT)	1Ø	(1)3/0-500 kcmil <sup>②</sup> (2)3/0-250 kcmil	(1or2)3/0-250 kcmil
400 (30 CKT Only)	1Ø	—	(1)3/0-500 kcmil (2)3/0-250 kcmil
400 (24 and 42 CKT)	3Ø	(1)3/0-500 kcmil <sup>②</sup> (2)3/0-250 kcmil	

① All lugs are rated for Cu or Al wire. Wire rang shown is maximum allowable for bending space provided. Lug may accommodate larger wire. Refer to National Electric Code for specific wire size requirements.

② 500 kcmil must be top side entry.

# Murray 3phase

## Cross Reference to New SKUs

• Revised •  
02/26/12

**MURRAY**

### Murray 3-Phase Cross Reference to New SKUs

(See Section 1 for full offering)		
Legacy Murray SKU	ES™ Series Part No.	PL™ Series Part No.
LC1224B3100CU	S1224B3100	P1224B3100CU
LC1224L3125CU	S1224L3125	P1224L3125CU
LC1224L3200CU	S1224L3200	No equivalent
LC1836B3100CU	No equivalent	No equivalent
LC1836L3150CU	S1836L3150	No equivalent
LC1836L3200CU	S2442L3200	No equivalent
LC2442L3150CU	S2442L3150	P2442L3200CU
LC3042B3150CU	S4242B3150	P4242B3150CU
LC3042B3200CU	S3054B3200	P3054B3200CU
LC3042L3200CU	S3054L3200	P3054L3200CU
LC4242B3200CU	S4260B3200	P4260B3200CU
LC4242B3225CU	S4242B3225	P4260B3225TCU/P4260B3225CU
LC4242L3225CU	S4260L3225	P4260L3225CU
LW1224L3125CU	SW1224L3125	PW1224L3125CU
LW1836L3150CU	SW1836L3150	No equivalent
LW3042B3200CU	SW3054B3200	PW3054B3200CU
LW3042L3200CU	SW3054L3200	PW3054L3200CU
New	S3042B3100	—
New	S5470L3225	—
New	SW1224L3200	—
New	SW2442L3150	—
New	SW2442L3200	—
New	SW4260L3225	—
New	S3030B3100	—
New	SW2442B3150	—
New	SW4260B3200	—
New	SW4242B3225	—
New	—	P3042B3100CU

**3**

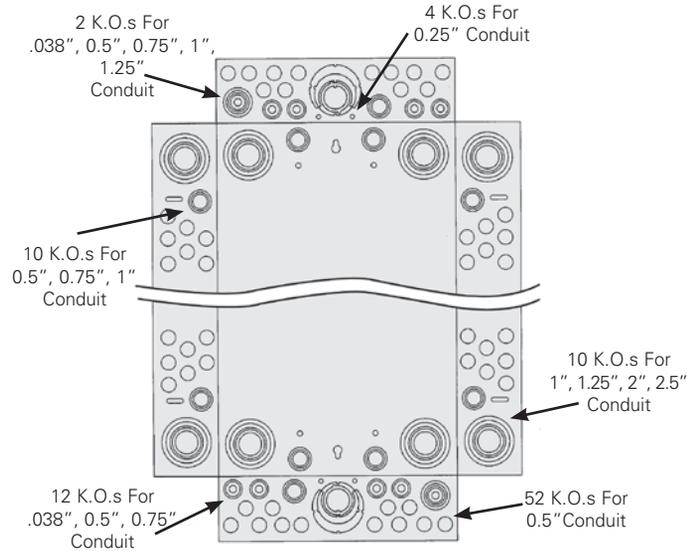
**MURRAY**

**Load Centers**

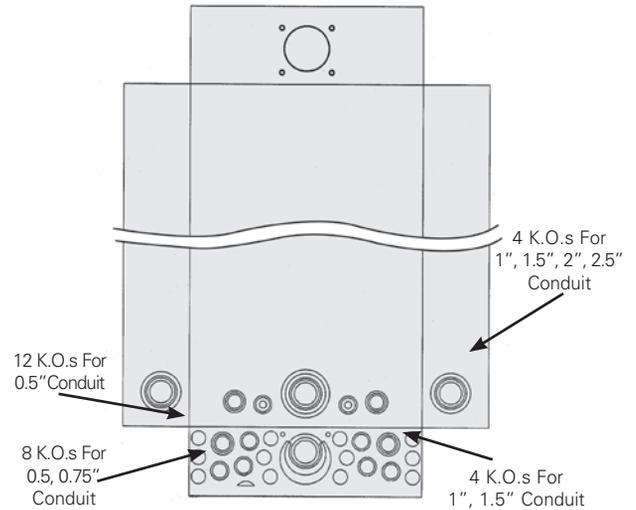
# Knockout Diagrams

## Rock Solid Load Centers (including Generator Ready)

### Indoor Main Breaker and Main Lug Enclosures



### Outdoor Main Breaker and Main Lug Enclosures



K.O. dimensions refer to conduit trade size, not actual diameter.

**4 Circuit Indoor**

**8 Circuit Indoor**

**16 Circuit Indoor**

---

**Knockout Code—Conduit Sizes**

● = ¼	S = 1, 1¼, 1½, 2, 2½
A = ½	T = 1¼
B = ½, ¾	U = 1¼, 1½
C = ½, ¾, 1	V = 1¼, 1½, 2
D = ½, 1	W = 1¼, 2
E = ½, ¾, 1, 1¼	X = 1¼, 1½, 2, 2½
F = ½, 1¼, 1½	Y = 1½, 2
G = ¾	Z = 1½, 2, 2½
H = ¾, 1	AA = 1½, 2, 2½, 3
J = ¾, 1, 1¼	BB = 1½, 2, 2½, 3, 3½
K = ¾, 1¼	CC = 2, 2½, 3, 3½
L = ¾, ¾, 1, 1¼, 1½	EE = 2, 2½, 3
M = ¾, 1, 1¼, 1½	FF = 2½, 3
N = ¾, 1, 1¼, 1½, 2	GG = 2½, 3, 3½
P = 1, 1¼	HH = 2½, 3, 3½, 4
Q = 1, 1¼, 1½	JJ = 3½, 4
R = 1, 1¼, 1½, 2	LL = 3
	VV = 2

# Knockout Diagrams

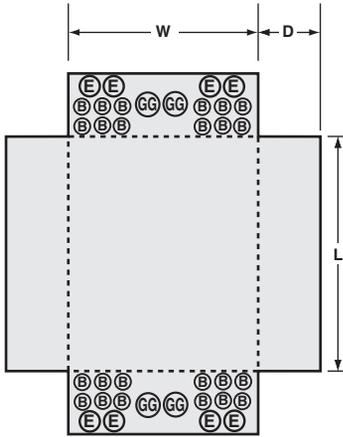
## Indoor and Outdoor Enclosures

**MURRAY**

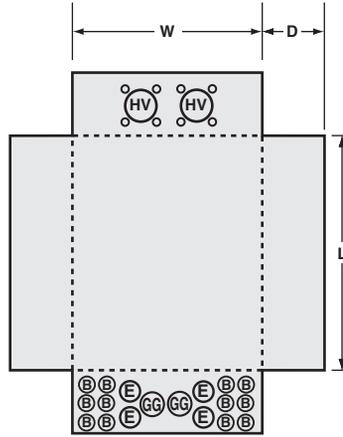
**MURRAY**

**Load Centers**

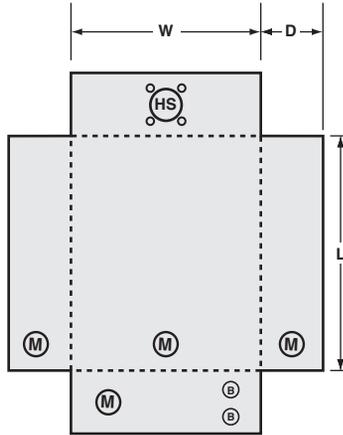
**400A Indoor**



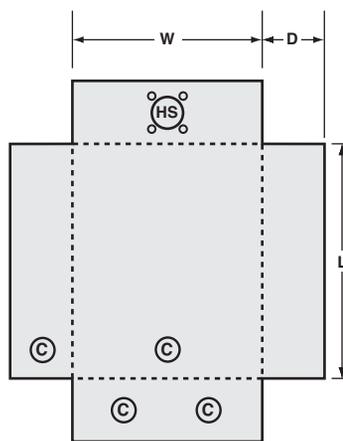
**400A Outdoor**



**8 Circuit Outdoor**



**4 Circuit Outdoor**



**Knockout Code—Conduit Sizes**

○ = 1/4	S = 1, 1 1/4, 1 1/2, 2, 2 1/2
A = 1/2	T = 1 1/4
B = 1/2, 3/4	U = 1 1/4, 1 1/2
C = 1/2, 3/4, 1	V = 1 1/4, 1 1/2, 2
D = 1/2, 1	W = 1 1/4, 2
E = 1/2, 3/4, 1, 1 1/4	X = 1 1/4, 1 1/2, 2, 2 1/2
F = 1/2, 1 1/4, 1 1/2	Y = 1 1/2, 2
G = 3/4	Z = 1 1/2, 2, 2 1/2
H = 3/4, 1	AA = 1 1/2, 2, 2 1/2, 3
J = 3/4, 1, 1 1/4	BB = 1 1/2, 2, 2 1/2, 3, 3 1/2
K = 3/4, 1 1/4	CC = 2, 2 1/2, 3, 3 1/2
L = 1/2, 3/4, 1, 1 1/4, 1 1/2	EE = 2, 2 1/2, 3
M = 3/4, 1, 1 1/4, 1 1/2	FF = 2 1/2, 3
N = 3/4, 1, 1 1/4, 1 1/2, 2	GG = 2 1/2, 3, 3 1/2
P = 1, 1 1/4	HH = 2 1/2, 3, 3 1/2, 4
Q = 1, 1 1/4, 1 1/2	JJ = 3 1/2, 4
R = 1, 1 1/4, 1 1/2, 2	LL = 3
	VV = 2