DISTRIBUTION

D2L/D2PC SERIES

FACTORY SEALED CIRCUIT BREAKER PANELBOARDS

Class I, Div. 2, Groups B, C, D
Class I, Zone 2, Groups IIB+H_2, IIA
Class II, Div. 2, Groups F, G
Class III, Div. 1 & 2
NEMA, CSA Type 3, 4 (4X Optional)

Classified – File E83969

Certified – File LR11713

FEATURES-SPECIFICATIONS

Applications

- Hazardous areas due to the potential of explosive gas atmospheres, combustible dusts or easily ignited fibers or flyings and areas subjected to corrosive or harsh chemicals, weather or dampness
- Petroleum refineries, chemical or petrochemical facilities with indoor or outdoor processes
- Applications requiring overcurrent and short circuit protection of lighting, appliances heating or motor circuits

Features

- Factory Seal between breaker enclosure and termination box eliminates the need for external sealing
- Gasketed covers assure NEMA/CSA Type 4, 4X rated protection for hosedown and corrosion
- Standard Electrical Components: D2L–Cutler-Hammer QC Breakers D2CP–Cutler-Hammer GHC & GCH Breakers
- Main distribution block, branch terminal block, neutral and ground bar are located in termination enclosure
- Main Lugs. Mechanical solderless type, approved for CU or AL conductors
- Solid neutral standard. Single phase, 3 wire or three phase 4 wire
- Main and branch circuit breaker handles can be padlocked in “on” or “off” position
- Top or bottom feed panels available
- Breaker chamber hinged cover with quick release – captivated bolts
- Termination enclosure has hinged cover with quick release latch for easy opening
- Termination enclosure supplied without conduit openings for easy field punching of incoming and outgoing entries
- Line and load side of breakers in breaker chamber are factory wired to terminal blocks in termination enclosure and sealed at the factory
- Breaker enclosure is drilled and plugged for maximum number of circuits to permit field addition of unused branch spaces

Panel Selection Factors

- Basic information required when specifying panelboards is as follows:
- Service Requirements – Voltage, phases and frequency
- Interrupting capacity
- Amperage Rating of Main (Lugs only or Breaker)
- Branch Breaker Requirements
  - » Type
  - » Number
  - » Poles
  - » Amperage
  - » GFCI Requirements

Ordering Information

Specifying and ordering a complete panelboard assembly requires the selection of three components

1. Basic Panel
2. Branch Breakers
3. Modifications if Required

This method of cataloguing permits a wide variety and maximizes circuit flexibility in the Killark panelboard series.

Standard Materials

- Breaker Enclosure: Copper-free cast aluminum (less than 4/10 of 1%)
- Terminal enclosure: Steel powder coated. (Optional stainless steel for 4X ratings)
- Cover bolts: Type 316 stainless steel

MODIFICATIONS	
SUFFIX NUMBER	**DESCRIPTION**
SU-3B-4X	Drain/Breather NEMA 4X/7 B,C,D
SU-10B-4X	Drain NEMA 4X/7 B,C,D
SU-11B-4X	Breather NEMA 4X/7 B,C,D
D2SF	Powder paint on breaker box
D2MLBTM	Invert with terminal box located on bottom
D2STST	Substitute with stainless steel termination box
B7GSN	Kit to ground neutral bar

D2L SERIES

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FEATURES-SPECIFICATIONS

Catalog Numbers on this page are for the basic Termination Enclosure with distribution, neutral, ground bar and terminal blocks plus a Breaker Enclosure with internal pan. Enclosures are connected together with factory poured sealing chambers and mounted on aluminum frame for wall mounting.

External breaker handles and internal branch breakers are not included and must be ordered as separate items for factory installation. (See page DE20)

D2L CIRCUIT BREAKER RATINGS CUTLER-HAMMER TYPE QC CIRCUIT BREAKERS

TYPE	POLES	VOLTS	AMPERES SYMMETRICAL
QC	1	120	10,000 AIC
	2	120/240	
	3	240	
QCSWN	1	120/240	10,000 AIC
	2	120/240	
QCGF	1	120	10,000 AIC
	2	120/240	
QCGFEP	1	120	10,000 AIC
	2	120/240	
QC*D	1	120	10,000 AIC
QC*D	2	120/240	

D2L PANELBOARDS WITHOUT MAIN BREAKER (MAIN LUGS ONLY) LESS BRANCH BREAKERS

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE
Single Phase 3 Wire with Solid Neutral 120/240 VAC	12	100	**D2L-112-ML100**	M	A
	24	225	**D2L-124-ML225**	N	B
	36	225	**D2L-136-ML225**	N	C
	42	225	**D2L-142-ML225**	P	D
Three Phase 4 Wire with Solid Neutral 120/208 VAC	12	100	**D2L-312-ML100**	M	A
	24	225	**D2L-324-ML225**	N	B
	36	225	**D2L-336-ML225**	N	C
	42	225	**D2L-342-ML225**	P	D

D2L PANELBOARDS WITH MAIN BREAKER LESS BRANCH BREAKERS

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN BREAKER AMPS	MAIN BREAKER FRAME	CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE	
Single Phase 3 Wire with Solid Neutral 120/240 VAC	10	100	QC	**D2L-110-MBQ100**	M	A	Back Fed
	22	100	QC	**D2L-122-MBQ100**	N	B	
	34	100	QC	**D2L-134-MBQ100**	N	C	
	42	225	ED	**D2L-142-MBED225**	N	D	
Three Phase 4 Wire with Solid Neutral 120/208 VAC	9	100	QC	**D2L-309-MBQ100**	M	A	Back Fed
	21	100	QC	**D2L-321-MBQ100**	N	B	
	33	100	QC	**D2L-333-MBQ100**	N	C	
	42	225	ED	**D2L-342-MBED225**	N	D	

NOTE: To substitute a lower amperage main breaker change last three digits of catalog number to desired amperage.

Example: For a 50 amp main breaker part number = D2L-309-MBQ050

See page DE20 for Branch Breaker Selection

See page DE21 for Dimensions, Wire Range Chart and Wiring Diagrams.

Panels are constructed with Terminal Box on Top for Top Feed.

If Bottom Feed is required order modification D2MLBTM for inverted panel with Terminal Box on Bottom.

DISTRIBUTION

D2PC SERIES

FACTORY SEALED LIGHTING / POWER PANELBOARDS

Class I, Div. 2, Groups B, C, D
Class I, Zone 2, Groups IIB+H_2, IIA
Class II, Div. 2, Groups F, G
Class III, Div. 1 & 2
NEMA, CSA Type 3, 4 (4X Optional)

Classified – File E83969

Certified – File LR11713

FEATURES-SPECIFICATIONS

Catalog Numbers on this page are for the basic Termination Enclosure with distribution, neutral, ground bar and terminal blocks plus a Breaker Enclosure with internal pan. Enclosures are connected together with factory poured sealing chambers and mounted on aluminum frame for wall mounting.

External breaker handles and internal branch breakers are not included and must be ordered as separate items for factory installation. (See page DE20)

600/480V Factory Sealed Power Panels available up to 42 circuits (MLO) as shown. Consult factory for ordering information.

CUTLER-HAMMER CIRCUIT BREAKER RATINGS FOR D2PC PANEL

TYPE	NUMBER OF POLES	MAXIMUM VOLTS		AMPERES SYMMETRICAL					
		AC	DC	277 VAC	347 VAC	277/480 VAC	347/600 VAC	125 VDC	250 VDC
GHC	1	277	125	14,000		—	—	14,000	—
	2 & 3	277/480Y	250	14,000		14,000	—	—	14,000
GCH	1	347	125	—	10,000	—	—	14,000	—
	2 & 3	347/600Y	250	—	—	—	10,000	—	14,000

NOTE: GCH Breakers are CSA only.

PANELBOARDS WITHOUT MAIN BREAKER (MAIN LUGS ONLY) LESS BRANCH BREAKERS

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE
Three Phase 4 Wire with Solid Neutral up to 480Y/277 VAC 600Y/347 VAC	12	100	**D2PC-312-ML100**	M	E
	24	225	**D2PC-324-ML225**	N	F
	36	225	**D2PC-336-ML225**	N	G
	42	225	**D2PC-342-ML225**	P	H

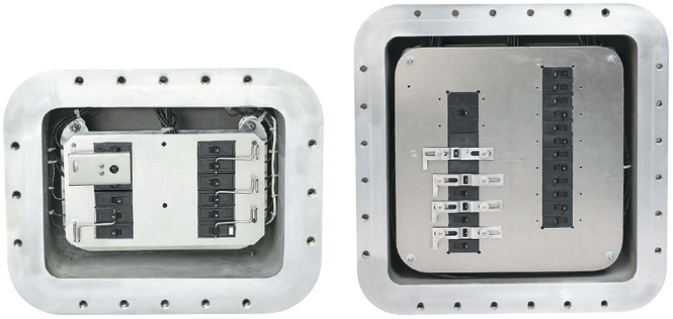
PANELBOARDS WITH MAIN BREAKER LESS BRANCH BREAKERS

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN BREAKER			CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE
		MAX VOLTS	AMPS	FRAME			
Three Phase 4 Wire with Solid Neutral 480Y/277 VAC 600Y/347 VAC	9	480Y/277	100	GHC	**D2PC-309-MBGH100**	M	E
	9	600Y/347	100	GCH	**D2PC-309-MBGC100**	M	E
	21	480Y/277	100	GHC	**D2PC-321-MBGH100**	N	F
	21	600Y/347	100	GCH	**D2PC-321-MBGC100**	N	F
	33	480Y/277	100	GHC	**D2PC-333-MBGH100**	N	G
	33	600Y/347	100	GCH	**D2PC-333-MBGC100**	N	G
	42	600Y/347	225	JDB	**D2PC-342-MBJ225**	N	H

Note special wiring conditions: GHC 480Y/277 circuit breakers are not suitable for 3 phase Delta (480)
GCH 600Y/347 circuit breakers are not suitable for 3 phase Delta (600)
GCH Rating is for CSA only not UL.

NOTE: To substitute a lower amperage main breaker change last three digits of catalog number to desired amperage.
Example: For a 50 amp main breaker part number = D2PC-309-MBGH050
See page DE20 for Branch Breaker Selection
See page DE21 for Dimensions, Wire Range Chart and Wiring Diagrams.
Panels are constructed with Terminal Box on Top for Top Feed.
*If Bottom Feed is required order modification **D2MLBTM** for inverted panel with Terminal Box on Bottom.*

FACTORY SEALED CIRCUIT BREAKER PANELBOARDS



Class I, Div. 2, Groups B, C, D
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NEMA, CSA Type 3, 4 (4X Optional)

c UL us Classified – File E83969

c SP us Certified – File LR11713

FEATURES-SPECIFICATIONS

BRANCH CIRCUIT BREAKER SELECTION FOR D2L & D2PC FACTORY SEALED PANELBOARDS

NUMBER OF POLES PER BREAKER	TRIP AMP RATING	CATALOG NUMBER							
		D2L SERIES LIGHTING PANEL					D2PC SERIES POWER PANEL		
		QC FRAME STANDARD	QC FRAME HID HIGH INTENSITY DISCHARGE	QC FRAME SWITCHED NEUTRAL	QCFG GROUND FAULT 5 MA	QCGFEP EQUIPMENT PROTECTION 30 MA	GHC FRAME 277/480Y VAC MAX	GHCHID FRAME 277/480Y HIGH INTENSITY DISCHARGE	GCH FRAME 347/600Y VAC MAX
(1) Single Pole	Space⑦	D2BLA1000	D2BLD1000	—	D2BLC1000	D2BLE1000	D2BGHC1000	D2BGHCD1000	D2BGCH1000
	15	D2BLA1015	D2BLD1015	—	D2BLC1015	D2BLE1015	D2BGHC1015	D2BGHCD1015	D2BGCH1015
	20	D2BLA1020	D2BLD1020	—	D2BLC1020	D2BLE1020	D2BGHC1020	D2BGHCD1020	D2BGCH1020
	30	D2BLA1030	D2BLD1030	—	D2BLC1030	D2BLE1030	D2BGHC1030	—	D2BGCH1030
	40	D2BLA1040	D2BLD1040	—	D2BLC1040	D2BLE1040	D2BGHC1040	—	D2BGCH1040
	50	D2BLA1050	D2BLD1050	—	—	D2BLE1050	D2BGHC1050	—	D2BGCH1050
	60	D2BLA1060	D2BLD1060	—	—	—	D2BGHC1060	—	D2BGCH1060
	70	D2BLA1070	—	—	—	—	D2BGHC1070	—	D2BGCH1070
	90	D2BLA1090	—	—	—	—	D2BGHC1090	—	D2BGCH1090
	100	D2BLA1100	—	—	—	—	D2BGHC1100	—	D2BGCH1100
(2) Double Pole	Space⑦	D2BLA2000	D2BLD2000	D2BLF2000	D2BLC2000	D2BLE2000	D2BGHC2000	—	D2BGCH2000
	15	D2BLA2015	D2BLD2015	D2BLF2015	D2BLC2015	D2BLE2015	D2BGHC2015	—	D2BGCH2015
	20	D2BLA2020	D2BLD2020	D2BLF2020	D2BLC2020	D2BLE2020	D2BGHC2020	—	D2BGCH2020
	30	D2BLA2030	D2BLD2030	D2BLF2030	D2BLC2030	D2BLE2030	D2BGHC2030	—	D2BGCH2030
	40	D2BLA2040	D2BLD2040	—	D2BLC2040	D2BLE2040	D2BGHC2040	—	D2BGCH2040
	50	D2BLA2050	D2BLD2050	—	D2BLC2050	D2BLE2050	D2BGHC2050	—	D2BGCH2050
	60	D2BLA2060	D2BLD2060	—	—	—	D2BGHC2060	—	D2BGCH2060
	70	D2BLA2070	—	—	—	—	D2BGHC2070	—	D2BGCH2070
	90	D2BLA2090	—	—	—	—	D2BGHC2090	—	D2BGCH2080
	100	D2BLA2100	—	—	—	—	D2BGHC2100	—	D2BGCH2100
(3) Three Pole	Space⑦	D2BLA3000	—	D2BLF3000	—	—	D2BGHC3000	—	D2BGCH3000
	15	D2BLA3015	—	D2BLF3015	—	—	D2BGHC3015	—	D2BGCH3015
	20	D2BLA3020	—	D2BLF3020	—	—	D2BGHC3020	—	D2BGCH3020
	30	D2BLA3030	—	D2BLF3030	—	—	D2BGHC3030	—	D2BGCH3030
	40	D2BLA3040	—	—	—	—	D2BGHC3040	—	D2BGCH3040
	50	D2BLA3050	—	—	—	—	D2BGHC3050	—	D2BGCH3050
	60	D2BLA3060	—	—	—	—	D2BGHC3060	—	D2BGCH3060
	70	D2BLA3070	—	—	—	—	D2BGHC3070	—	D2BGCH3070
	90	D2BLA3090	—	—	—	—	D2BGHC3090	—	D2BGCH3090
	100	D2BLA3100	—	—	—	—	D2BGHC3100	—	D2BGCH3100

NOTES:

1) Above part numbers include external handle, trip mechanism, locking tab and internal branch circuit breaker.
2) Refer to page DE17 for complete ordering information and examples.
3) Refer to pages DE18 and DE19 for maximum voltage and ratings of circuit breakers.
4) Space = External handle, trip mechanism installed to allow for future installations of breakers.
5) Ground Fault and Equipment protection breakers include external button for test purpose.
6) 15 and 20 ampere, 1 pole GHCHID are SWD rated.
⑦ Handle only.

DISTRIBUTION

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NEMA, CSA Type 3, 4 (4X Optional)

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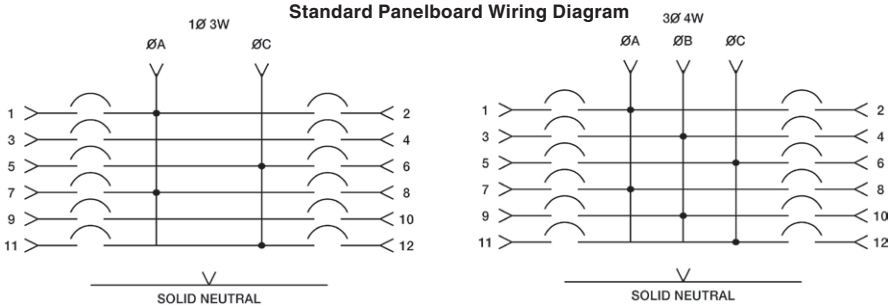
Certified – File LR11713

FEATURES-SPECIFICATIONS

WIRE RANGE CHART	
REFERENCE LETTER	MAIN WIRE RANGE
M	2/0-#14AWG
N	350MCM-#6AWG
P	400MCM-#6AWG

Standard Panelboard Wiring Diagram



DIMENSIONS FOR PANELS WITH STANDARD STEEL PAINTED TERMINAL ENCLOSURES											
PANEL SIZE	MAX. CIRCUITS	A	B	C	D	E	F	G	H	J	L
A	12	16" (406)	20-1/8" (511)	11" (279)	8-7/16" (214)	33-27/32" (860)	31-1/2" (800)	16" (406)	15-1/4" (387)	8-15/16" (227)	35-3/8" (899)
B	24	20" (508)	21-1/4" (565)	11-7/32" (285)	10-7/16" (265)	46-31/32" (1193)	44-5/8" (1133)	24" (610)	20-3/8" (518)	10-15/16" (278)	48-1/2" (1232)
C	36	20" (508)	22-1/8" (587)	14-1/16" (357)	10-7/16" (265)	55-27/32" (1418)	53-1/2" (1359)	24" (610)	29-1/4" (743)	11-3/8" (289)	57-3/8" (1457)
D	42	24" (610)	23-3/16" (589)	14-3/8" (365)	10-7/16" (265)	67" (1702)	64-5/8" (1641)	24" (610)	40-3/8" (1026)	13-1/4" (337)	68-17/32" (1741)
E	12	16" (406)	23-1/4" (591)	11-21/32" (296)	8-7/16" (214)	35" (889)	32-5/8" (829)	16" (406)	16-3/8" (416)	12-7/8" (327)	36-1/2" (927)
F	24	20" (508)	24-1/8" (613)	12-1/16" (306)	10-7/16" (265)	49-27/32" (1241)	47-1/2" (1207)	24" (610)	23-1/4" (591)	13-3/8" (340)	51-3/8" (1305)
G	36	20" (508)	23-3/16" (589)	13-25/32" (350)	10-7/16" (265)	54-31/32" (1396)	52-5/8" (1337)	24" (610)	28-3/8" (721)	13" (330)	56-1/2" (1435)
H	42	24" (610)	23-3/16" (589)	14-3/8" (365)	10-7/16" (265)	67" (1702)	64-5/8" (1641)	24" (610)	40-3/8" (1026)	13-1/4" (337)	68-17/32" (1741)

DIMENSION CHANGE FOR PANELS WITH ALTERNATE TERMINAL ENCLOSURES		
PANEL SIZE	D2 STAINLESS STEEL OPTION	
	A	G
A	20 (508)	16 (406)
B	20 (508)	24 (610)
C	20 (508)	24 (610)
D	24 (610)	24 (610)
E	20 (508)	16 (406)
F	20 (508)	24 (610)
G	20 (508)	24 (610)
H	24 (610)	24 (610)