D2L/D2PC SERIES • DISTRIBUTION EQUIPMENT
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)

c UL us 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 hose-down 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 or fiberglass for 4X ratings)
- Cover bolts: Type 316 stainless steel

MODIFICATIONS

SUFFIX NUMBER	DESCRIPTION
SU3	Drain and breather C&D①
SU3B	Drain and breather B,C,D①②
D2SF	Powder paint on breaker box
D2MLBTM	Invert with terminal box located on bottom
D2STST	Substitute with stainless steel termination box
D2FG	Substitute with fiberglass termination box
B7GSN	Kit to ground neutral bar
D2CA	Substitute with cast aluminum termination box

① Installation of drain breather will void the NEMA 4-4x rating of panelboard.
② Not CSA

HUBBELL®
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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 DE19)

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	

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	12	100	**D2L-112-ML100**	M	A
3 Wire with	24	225	**D2L-124-ML225**	N	B
Solid Neutral	36	225	**D2L-136-ML225**	N	C
120/240 VAC	42	225	**D2L-142-ML225**	P	D
Three Phase	12	100	**D2L-312-ML100**	M	A
4 Wire with	24	225	**D2L-324-ML225**	N	B
Solid Neutral	36	225	**D2L-336-ML225**	N	C
120/208 VAC	42	225	**D2L-342-ML225**	P	D

D2L PANELBOARDS WITH MAIN BREAKER LESS BRANCH BREAKERS

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN BREAKER		CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE
		AMPS	FRAME			
Single Phase	10	100	QC	**D2L-110-MBQ100**	M	A
3 Wire with	22	100	QC	**D2L-122-MBQ100**	N	B
Solid Neutral	34	100	QC	**D2L-134-MBQ100**	N	C
120/240 VAC	42	225	ED	**D2L-142-MBED225**	N	D
Three Phase	9	100	QC	**D2L-309-MBQ100**	M	A
4 Wire with	21	100	QC	**D2L-321-MBQ100**	N	B
Solid Neutral	33	100	QC	**D2L-333-MBQ100**	N	C
120/208 VAC	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 DE19 for Branch Breaker Selection
See page DE20 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.*

D2PC SERIES • DISTRIBUTION EQUIPMENT
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)

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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 DE19)

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

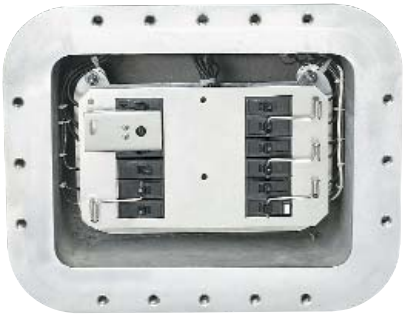
ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURES	MAIN WIRE RANGE	PANEL SIZE
Three Phase 4 Wire with Solid Neutral up to 480Y/277 VAC 600Y/347 VAC	12	100	**D2PC-312-ML100**	M	E
	24	225	**D2PC-324-ML225**	N	F
	36	225	**D2PC-336-ML225**	N	G
	42	225	**D2PC-342-ML225**	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 DE19 for Branch Breaker Selection
See page DE20 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.*



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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 SWITCHED NEUTRAL	QCFG GROUND FAULT 5 MA	QCGFEP EQUIPMENT PROTECTION 30 MA	GHC FRAME 277/480Y VAC MAX	GCH FRAME 347/600Y VAC MAX
(1) Single Pole	Space	D2BLA1000	—	D2BLC1000	D2BLE1000	D2BGHC1000	D2BGCH1000
	15	D2BLA1015	—	D2BLC1015	D2BLE1015	D2BGHC1015	D2BGCH1015
	20	D2BLA1020	—	D2BLC1020	D2BLE1020	D2BGHC1020	D2BGCH1020
	30	D2BLA1030	—	D2BLC1030	D2BLE1030	D2BGHC1030	D2BGCH1030
	40	D2BLA1040	—	D2BLC1040	D2BLE1040	D2BGHC1040	D2BGCH1040
	50	D2BLA1050	—	—	D2BLE1050	D2BGHC1050	D2BGCH1050
	60	D2BLA1060	—	—	—	D2BGHC1060	D2BGCH1060
	70	D2BLA1070	—	—	—	D2BGHC1070	D2BGCH1070
	90	D2BLA1090	—	—	—	D2BGHC1090	D2BGCH1090
	100	D2BLA1100	—	—	—	D2BGHC1100	D2BGCH1100
(2) Double Pole	Space	D2BLA2000	D2BLF2000	D2BLC2000	D2BLE2000	D2BGHC2000	D2BGCH2000
	15	D2BLA2015	D2BLF2015	D2BLC2015	D2BLE2015	D2BGHC2015	D2BGCH2015
	20	D2BLA2020	D2BLF2020	D2BLC2020	D2BLE2020	D2BGHC2020	D2BGCH2020
	30	D2BLA2030	D2BLF2030	D2BLC2030	D2BLE2030	D2BGHC2030	D2BGCH2030
	40	D2BLA2040	—	D2BLC2040	D2BLE2040	D2BGHC2040	D2BGCH2040
	50	D2BLA2050	—	D2BLC2050	D2BLE2050	D2BGHC2050	D2BGCH2050
	60	D2BLA2060	—	—	—	D2BGHC2060	D2BGCH2060
	70	D2BLA2070	—	—	—	D2BGHC2070	D2BGCH2070
	90	D2BLA2090	—	—	—	D2BGHC2090	D2BGCH2080
	100	D2BLA2100	—	—	—	D2BGHC2100	D2BGCH2100
(3) Three Pole	Space	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 DE16 for complete ordering information and examples.
3) Refer to pages DE17 and DE18 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.

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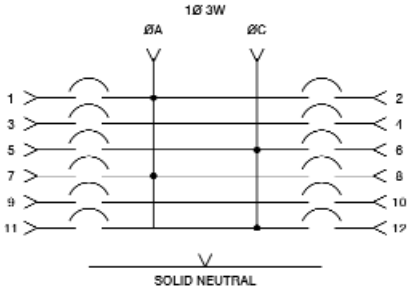
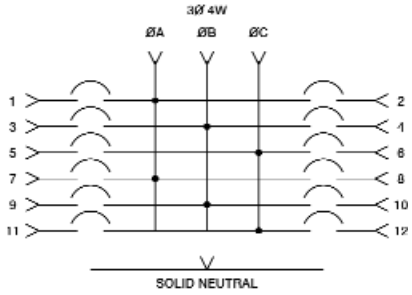
FEATURES-SPECIFICATIONS

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

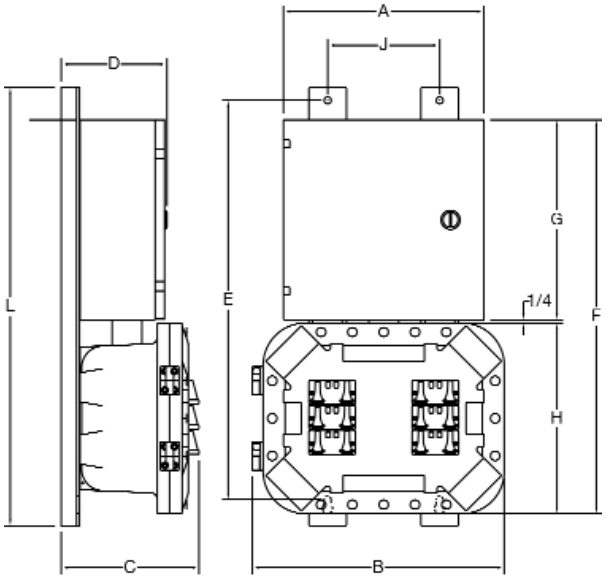
Standard Panelboard Wiring Diagram





DIMENSIONS FOR PANELS WITH STANDARD STEEL PAINTED TERMINAL ENCLOSURES											
PANEL SIZE	MAXIMUM CIRCUITS	A	B	C	D	E	F	G	H	J	L
A	12	16"	20-1/8"	11"	8-7/16"	33-27/32"	31-1/2"	16"	15-1/4"	8-15/16"	35-3/8"
B	24	20"	21-1/4"	11-7/32"	10-7/16"	46-31/32"	44-5/8"	24"	20-3/8"	10-15/16"	48-1/2"
C	36	20"	22-1/8"	14-1/16"	10-7/16"	55-27/32"	53-1/2"	24"	29-1/4"	11-3/8"	57-3/8"
D	42	24"	23-3/16"	14-3/8"	10-7/16"	67"	64-5/8"	24"	40-3/8"	13-1/4"	68-17/32"
E	12	16"	23-1/4"	11-21/32"	8-7/16"	35"	32-5/8"	16"	16-3/8"	12-7/8"	36-1/2"
F	24	20"	24-1/8"	12-1/16"	10-7/16"	49-27/32"	47-1/2"	24"	23-1/4"	13-3/8"	51-3/8"
G	36	20"	23-3/16"	13-25/32"	10-7/16"	54-31/32"	52-5/8"	24"	28-3/8"	13"	56-1/2"
H	42	24"	23-3/16"	14-3/8"	10-7/16"	67"	64-5/8"	24"	40-3/8"	13-1/4"	68-17/32"

DIMENSION CHANGE FOR PANELS WITH ALTERNATE TERMINAL ENCLOSURES				
PANEL SIZE	D2 STAINLESS STEEL OPTION		D2 FIBERGLASS OPTION	
	A	G	A	G
A	20	16	24	14
B	20	24	24	24
C	20	24	24	24
D	24	24	24	24
E	20	16	24	14
F	20	24	24	24
G	20	24	24	24
H	24	24	24	24



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