Panelboards & Motor Starters

DPE Series: Distribution Panelboard – Increased Safety

Zone 1 & 2 - 21 & 22
II 2 GD
ATEX / IEC
IP66 - IK10

12 Circuit Version

Compliance Data:

ATEX - IECEx:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IECEx	CE
Ex de IIC	T6 to T4	Ex tD A21	T80°C to T130°C	IP66 – IK10

Electrical Data:

Voltage	Amperage	Frequency		
Up to 440 V	Up to 160 A	50/60 Hz		

Operating Temperature:

-20°C to +55°C, -40ºC to +55º (optional)			

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Applications:

- Protection and control of electrical equipment in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- These compact units provide a centrally controlled switching system for large quantities of branch circuits for lighting, heat tracing, small motors and similar electrical equipment.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features:

- Suitable for use in Zone 1 & 2 and Zone 21 & 22.
- Available versions:
  - Branch Circuit Breaker available with B, C or D tripping curve.
  - GFI Branch Circuit Breaker available with B, C or D tripping curve.
  - 1, 2, 3, 4 poles and 1 + N branch circuit breakers
- Breakers operators included as standard and can be padlocked in "OFF" position.
- Copper bus bars as standard.
- 3- or 4-pole main circuit breaker or isolator switch can be padlocked in the "ON" or "OFF" position.
- Completely wired. Easy field termination to terminal blocks.
- M8 Earth crossing terminal.
- 440 Vac maximum.
- 60 Vdc (1-pole) or 125 Vdc (2-pole).
- Yellow laminated plastic label with black lettering.
- Earth continuity brass plate.
- Hinged door.
- Closed with plastic double bar locks (supplied with key).
- Supplied with wall supporting frame.

Standard Material of Fixtures:

- Fiberglass reinforced polyester housing.

Options:

- -40ºC – consult factory.
- Other rating and tripping curves.
- 316L stainless steel version.
- Other voltages up to 480 V.

Catalog Number Logic:

DPE X X X XX XXXX X X

Series:
DPE = DPE Series
Zone 1, 2 – 21, 22
ATEX / IEC Certified

Main Protection:
B = Main Circuit Breaker
S = Isolator Switch

Main Protection:
0 = 3 x 40 A
1 = 4 x 40 A
2 = 3 x 63 A
3 = 4 x 63 A
4 = 3 x 100 A
5 = 4 x 100 A
6 = 3 x 125 A
7 = 4 x 125 A
8 = 3 x 160 A
9 = 4 x 160 A

Panel Size Layout:
A
B
C
D
E
F
G
H
J
K
L
M

Branch Breakers Quantity:
03
06
08
09
12
18
24

Branch Circuit Breaker

Number of Poles:
1 = 1-Pole
2 = 2-Pole
3 = 3-Pole
4 = 4-Pole
9 = 1-Pole + N

Intensity:
01 = 1 A
02 = 2 A
03 = 3 A
04 = 4 A
06 = 6 A
10 = 10 A
16 = 16 A
20 = 20 A
25 = 25 A
32 = 32 A
40 = 40 A
50 = 50 A
63 = 63 A

Curve:
B = Curve B
C = Curve C
D = Curve D

GFI:
0 = without
1 = 30 mA (individual branch)
2 = 300 mA (individual branch)
3 = 30 mA (main branch)
4 = 300 mA (main branch)

Options:
S = Stainless Steel
# = Customized Panelboard

6 digit number will be assigned at time of order placement.

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Zone 1 & 2 - 21 & 22
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Ordering Information:

Distribution Panelboard with Branch Circuit Breakers (for lighting circuits, etc.):
4-pole main switch and 2-pole branch circuit breakers wired on terminals.

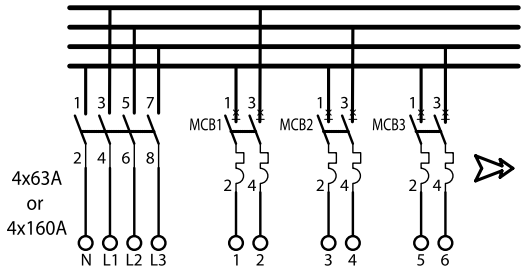
Main Switch	Branch Circuit Breakers 2-pole 16 A: Quantity	Branch Circuit Breakers 2-pole 16 A: Tripping Curve	Layout (Panel Size)	Cable Entries	Volume (dm^3)	Weight (kg)	Catalog Number
4 x 63 A	6	C	A	1 x M40, 6 x M20			DPES3A 06216C0
	8	C	B	1 x M40, 8 x M20			DPES3B 08216C0
	12	C	C	1 x M50, 12 x M20			DPES3C 12216C0
4 x 160 A	12	C	D	1 x M50, 12 x M20			DPES9D 12216C0
	18	C	E	1 x M50, 18 x M20			DPES9E 18216C0
	24	C	F	1 x M50, 24 x M20			DPES9F 24216C0

Distribution Panel Board with GFI Branch Cicruit Breaker (for heat tracing circuits, etc.):
4-pole main switch and 1-pole + N branch circuit breakers with RCD wired on terminals.

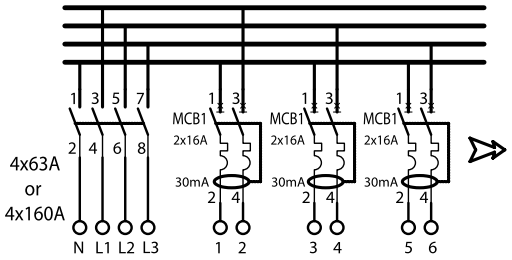
Main Switch	Branch Circuit Breakers 1-pole + N — 16 A/30 mA: Quantity	Branch Circuit Breakers 1-pole + N — 16 A/30 mA: Tripping Curve	Layout (Panel Size)	Cable Entries	Volume (dm^3)	Weight (kg)	Catalog Number
4 x 63 A	6	C	G	1 x M40, 6 x M20			DPES3G 06216C1
	8	C	H	1 x M40, 8 x M20			DPES3H 08216C1
	12	C	J	1 x M50, 12 x M20			DPES3J 12216C1
4 x 160 A	12	C	K	1 x M50, 12 x M20			DPES9K 12216C1
	18	C	L	1 x M50, 18 x M20			DPES9L 18216C1
	24	C	M	1 x M50, 24 xM20			DPES9M 24216C1

Wiring Diagram:

Branch Circuit Breaker Versions



GFI Branch Circuit Breaker Versions



Technical Data:

	INCOMING		OUTGOING
	4 x 63A	4 x 160 A	Up to 16 A
Rated Operating Voltage	380/415 V	380/415 V	220/240 Vac
Rated Operating Current	63 A	160 A	Up to 16 A
Termination (flexible/solid)			
Flexible	2.5 to 35 mm^2	10 to 70 mm^2	0.5 to 4 mm^2
Rigid	2.5 to 50 mm^2	10 to 95 mm^2	1.5 to 6 mm^2

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Compliances:

Hazardous Area	Gas	Dust
Certification Type	**CAe**	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081Ⓔx II 2 G	CE 0081Ⓔx II 2 D
Symbol of Protection ATEX	Ex de IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 to T4	N.A.
Surface Temperature	N.A.	T80°C to T130°C
Ambient Temperature	-20°C to +55°C	
CE Declaration of Conformity	50235	
ATEX Certificate	LCIE 02 ATEX 6248X	
IECEx Certificate	IECEx LCI 04.0016X	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	

Standards:

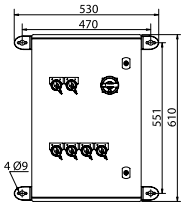
Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 61241-0; 61241-1
Product Standards	EN / IEC 60947-1; 60947-2; 60947-3
EMC Standards	/
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

Dimensions (mm):

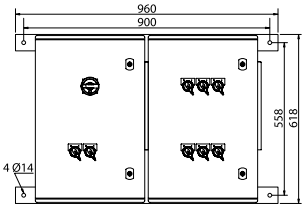
2 Pole Branch Circuit Breaker Versions

* Main Breaker/Isolator Switch: Maximum 63A

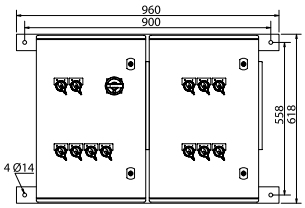
Layout A*:



Layout B*:



Layout C*:



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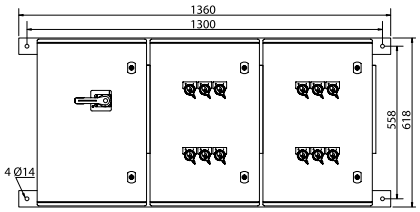

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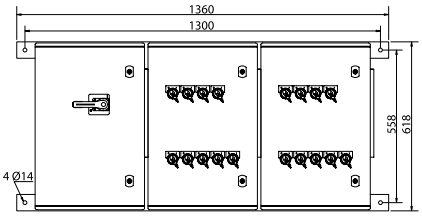

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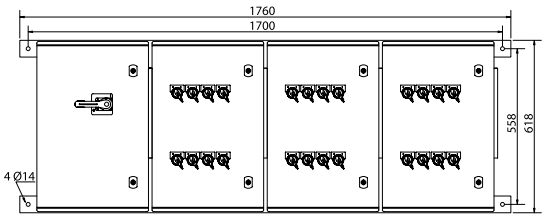

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Appleton

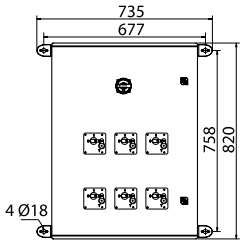
Zone 1 & 2 - 21 & 22
II 2 GD
ATEX / IECEx
IP66 - IK10

Dimensions (mm) – Continued:

3 and 4 Poles, 2 Poles GFI Branch Circuit Breaker Versions

* Main Breaker/Isolator Switch: Maximum 63A

Layout G*:



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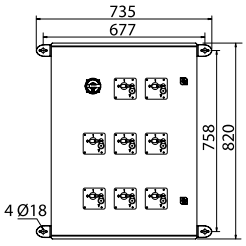
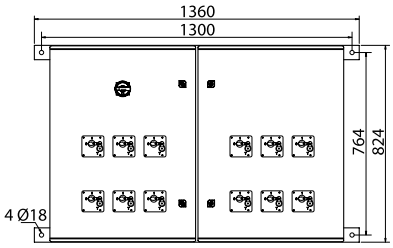


Layout J*:



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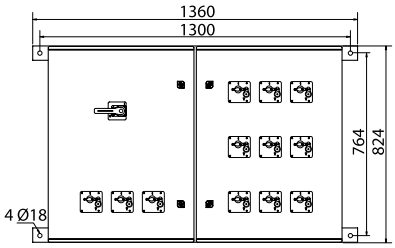
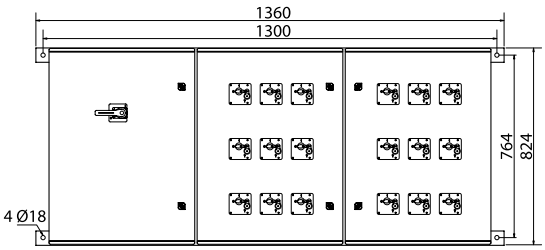
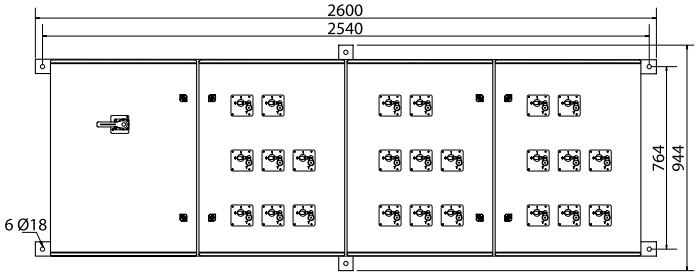


Layout L:



Layout M:



North AmericanCEC/NEC Certification: PowerPlex™ Panelboards

Ask your local representative for details or visit the Appleton website at www.appletonelec.com.

Features:

- No external conduit or cable seals required, making installations faster, easier, and less costly.
- Features individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- Standard breakers are used and the lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Gland plate at the bottom of the enclosure can be easily field punched for cable glands or conduit hubs. Additional gland plates available for sides and top and must be ordered with the panelboard.
- Standard configuration includes internal actuators and a non-window door. Factory installed options include window door or external actuators.
- 3-circuit to 42-circuit panelboard configurations up to 60 Amps per branch breaker. Larger breaker amperages available.
- Branch circuit breakers available in 1, 2 and 3-pole up to 60 amps. 2- or 3-pole main circuit breakers up to 225 amps in a separate enclosure.
- Breakers can be padlocked in either the On or Off position.
- Voltage ranges from 120 to 600 Volts.
- Factory wired. Insulated ground and neutral bars provided.
- External ground lug.
- QC breaker terminal wire range #14-1/0.
- F-Frame breaker terminal wire range #14-4/0.
- Accommodates standard QC Series or F-Frame series circuit breakers each individually contained in its own housing.
- Drain/breather included as standard.
- Rated -25 °C to 40 °C (-40 °C with optional heater).

Standard Materials:

- Enclosure: 316L stainless steel.
- Alternate enclosure: fiberglass reinforced polyester.
- Hardware: stainless steel.

Compliances:

- cCSAus, cURus
- Class I Div. 2 Group B, C, D
- Class I Zone 1 AEx de IIB+H2 T6
- Ex d IIB+H2 T6 U
- Type 4X, IP66

PowerPlex™ Panelboard