

GDB SERIES TOUCH-SAFE POWR-BLOKS™

Global Distribution Blocks



Description

POWR-BLOKS™ Global Distribution Blocks add safety and mounting versatility to our distribution block solutions. The Global Distribution Blocks are approved to UL standards. The Global Distribution Blocks are IP20 finger safe to reduce the risk of contact and eliminate the need for block or panel covers. Installation is quick and easy, all blocks can be mounted on DIN rail or to the panel.

Features/Benefits

- Global part meeting UL standards
- Space saving design
- Integrated touch-safe cover to increase safety
- IP20 protection rating
- Mounts to DIN rail or panels
- Reliable brass connections for excellent continuity in a smaller design

Specifications

Voltage Rating	UL: 600 VAC/VDC
Ampere Rating	80 – 335 A
Material	Thermoplastic
Connector	GDBxxxx: Brass
	GDBAxxxx: Aluminum (Tin Plated)
Flammability Rating	UL94 V-0
Approvals	UL Recognized (File: E309688, E171395) UL Listed (File: E482231) CSA Certified (File: 700111)
Operating Temperature	-40°C to +90°C
Storage Temperature	-40°C to +100°C
Relative Humidity	50% @ 40°C, 90% @ 20°C
Environmental	RoHS compliant

Web Resources

For additional information visit Littelfuse.com/gdb

Electrical Specifications

CATALOG/ ORDERING NUMBER	POLES	AMPS	WIRE RANGE				OVERCURRENT PROTECTION FUSE REQUIRED						SCCR IN RMS SYM AMPS	AGENCY APPROVALS			
			LINE CONNECTION		LOAD CONNECTION		CLASS J (JTD_ID)	Class T (JLLN, JLLS)	Class RK1 (LLNRK, LLSRK, KLNK, KLSR)	Class RK5 (FLNR, FLRS, IDSR)	CLASS G (SLC)	CLASS CC (CCMR, KLDK, KLKR)		UR	cURus	UL	CSA
			LINE	OPENINGS PER POLE	OPENINGS PER POLE	LOAD											
GDB60801Z	1	80	1	#8 - #4	6	#8 - #4 #10 - #14	80	- -	- -	- -	- -	100,000		•			
GDB61151Z	1	115	1	#8 - #2 #10 - #6	6	#14 - #4	125	- -	- -	- -	- -	100,000		•			
GDB61153Z	3	115	1	#8 - #2	6	#14 - #4	125	-	-	-	-	100,000		•			
GDBAD211Z	1	115	1	#14 - #2	1	#14 - #2	175	225	100	60	60	30	100,000			•	•
GDBAD241Z	1	115	1	#10 - #2	4	#14 - #10	125	200	100	30	60	30	65,000			•	•
GDB61601Z	1	160	1	#8 - 2/0	6	#14 - #4	175	-	-	-	-	-	100,000	•			
GDB61753Z	3	175	1	#8 - 2/0	6	#14 - #4	175	-	-	-	-	-	100,000		•		
GDBAD421Z	1	200	1	#8 - 3/0	1	#8 - 3/0	225	225	200	60	60	30	100,000			•	•
GDBAP421Z	1	200	1	#8 - 3/0	1	#8 - 3/0	225	225	200	60	60	30	100,000			•	•
GDBAD451Z	1	200	1	#8 - 3/0	4	#8 - #2	225	225	200	60	60	30	100,000			•	•
				#8 - 3/0		#14 - #8	100	110	100	30	60						
GDBAP451Z	1	200	1	#8 - 3/0	4	#8 - #2	225	225	200	60	60	30	100,000			•	•
				#8 - 3/0		#14 - #8	100	110	100	30	60						
GDB63101Z	1	310	1	3/0 - 350 kcmil	11	#14 - #2 #14 - #6 #14 - #8	350	-	-	-	-	-	100,000	•			
GDBAD741Z	1	335	1	#6 - 400 kcmil #14 - 3/0	8	#14 - #2	-	-	-	-	-	-	10,000	•			•

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Mechanical Specification

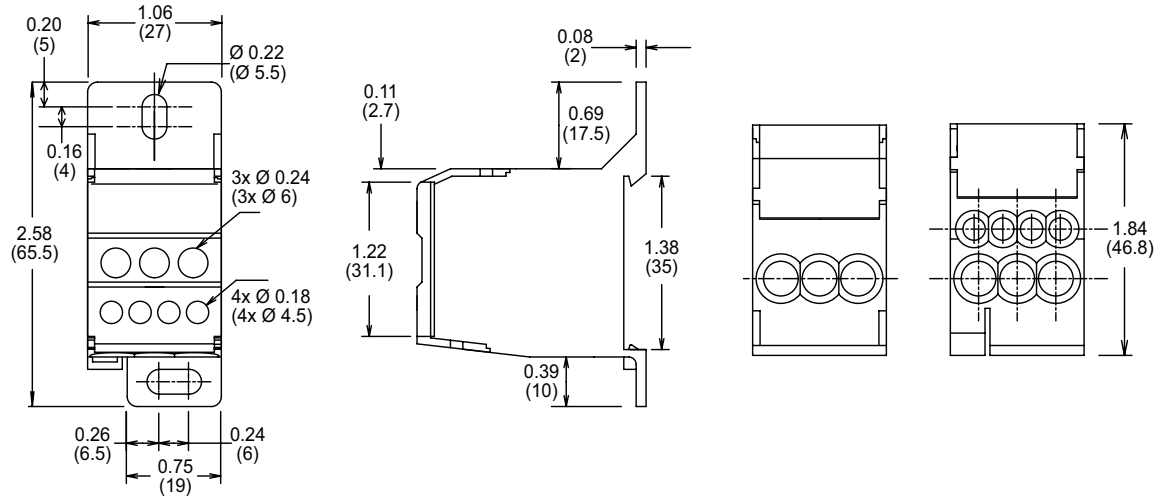
CATALOG/ ORDERING NUMBER	POLES	AMP RATING PER POLE (UL)	LINE CONNECTION					LOAD CONNECTION				
			OPENINGS PER POLE	OPENING DIAMETER	SCREW TYPE	WIRE RANGE	TORQUE LB-IN (NM)	OPENINGS PER POLE	OPENING DIAMETER	SCREW TYPE	WIRE RANGE	TORQUE LB-IN (NM)
GDB60801Z	1	80	1	0.28 in (7.0 mm)	Slotted	#8 – #4 (Cu)	13.5 (1.5)	6	2x 0.28 in (2x 7.0 mm)	Slotted	#8 - #4 (Cu)	13.5 (1.5)
									4x 0.18 in (4x 4.5 mm)		#10 - #14 (Cu)	7.2 (0.8)
GDB61151Z	1	115	2	0.39 in (10.0 mm)	Hex 4 mm	#8 – #2 (Cu) #10 – #6 (Cu)	31 (3.5)	6	0.28 in (7.0 mm)	Slotted	#14 – #4 (Cu)	17.5 (2)
GDB61153Z	3	115	1	0.39 in (10.0 mm)	Hex 4mm	#8 - #2 (Cu)	31 (3.5)	6	0.25 in (6.5 mm)	Hex 3mm	#14 - #4 (Cu)	17.5 (2)
GDBAD211Z	1	115	1	0.323 in (8.2 mm)	Hex 4 mm	#14 - #2 (Cu/Al)	35 (4.0) #14 - #10 40 (4.5) #8 45 (5.1) #6 - #4 50 (5.6) #3 - #2	1	0.323 in (8.2 mm)	Hex 4 mm	#14 - #2 (Cu/Al)	35 (4.0) #14 - #10 40 (4.5) #8 45 (5.1) #6 - #4 50 (5.6) #3 - #2
GDBAD241Z	1	115	1	0.312 in (7.9 mm)	Hex 4 mm	#14 - #2 (Cu/Al)	35 (4.0) #14 - #10 40 (4.5) #8 45 (5.1) #6 - #4 50 (5.6) #3 - #2	4	0.159 in (4.0 mm)	Hex 2 mm	#14 - #10 (Cu/Al)	7 (0.8)
GDB61601Z	1	160	1	0.49 in (12.5 mm)	Hex 5mm	#8 - 2/0 (Cu)	35.5 (4)	6	0.28 in (7.0 mm)	Slotted	#14 - #4 (Cu)	17.5 (2.0)
GDB61753Z	3	175	1	0.47 in (12.0 mm)	Hex 5mm	#8 - 2/0 (Cu)	35.5 (4)	6	0.25 in (6.5 mm)	Hex 3mm	#14 - #4 (Cu)	17.5 (2.0)
GDBAD421Z	1	200	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0
GDBAP421Z	1	200	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0
GDBAD451Z	1	200	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0	4	0.313 in (7.9mm)	Hex 5mm	#14 - #2 (Cu/Al)	40 (4.5) #14 - #10 50 (5.6) #8 - #2
GDBAP451Z	1	200	1	0.531 in (13.5 mm)	Hex 6mm	#14 - 3/0 (Cu/Al)	50 (5.6) #14 - #10 180 (20.3) #8 - 3/0	4	0.313 in (7.9mm)	Hex 5mm	#14 - #2 (Cu/Al)	40 (4.5) #14 - #10 50 (5.6) #8 - #2
GDB63101Z	1	310	1	0.75 in (19.0 mm)	Hex 8mm	3/0 - 350 kcmil (Cu)	230 (26.0)	11	2x 0.35 in (2x 9.0mm)	Slotted	#14 - #2 (Cu)	31 (3.5)
									5x 0.25 in (5x 6.5mm)		#14 - #6 (Cu)	18 (2.0)
									4x 0.21 in (4x 5.3mm)		#14 - #8 (Cu)	
GDBAD741Z	1	335	1	0.516 in (13.1 mm)	Hex 8mm & 6mm	#14 - 400 kcmil (Cu/Al)	40 (4.5) #14 - #8 80 (9.0) #6 - #2	8	0.375 in (9.5 mm)	Hex 5mm	#14 - #2 (Cu/Al)	40 (4.5) #14 - #8
							120 (13.6) #1 - #3/0 275 (31.10) #6 - #1/0 375 (42.4) 2/0 - 400 kcmil					80 (9.0) #6 - #2

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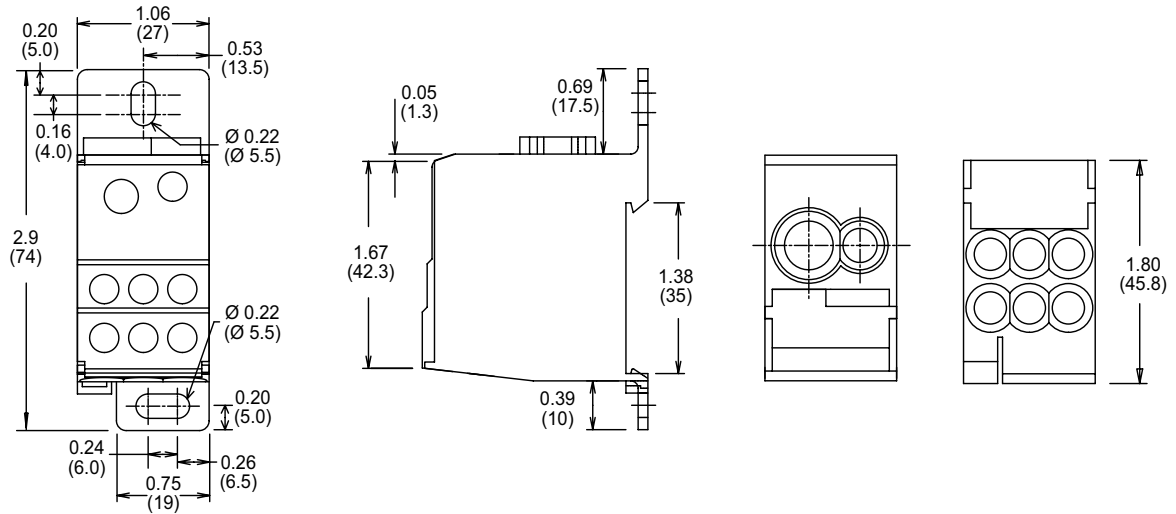
Global Distribution Blocks

Dimensions Inches (mm)

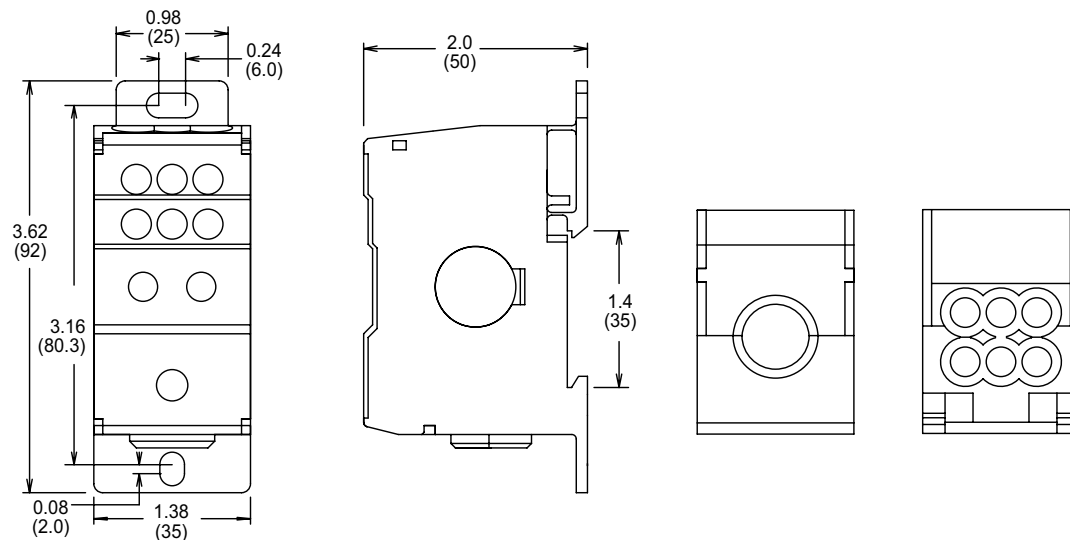
GDB60801Z



GDB61151Z



GDB61601Z



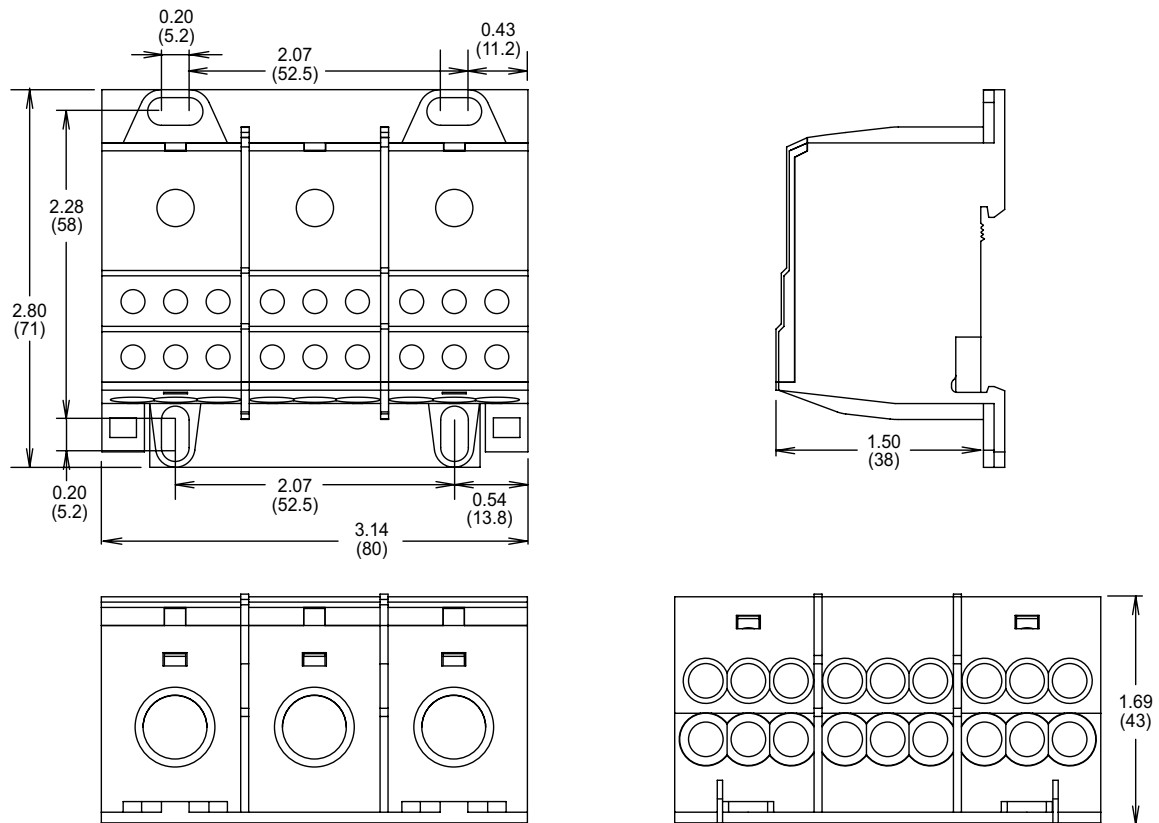
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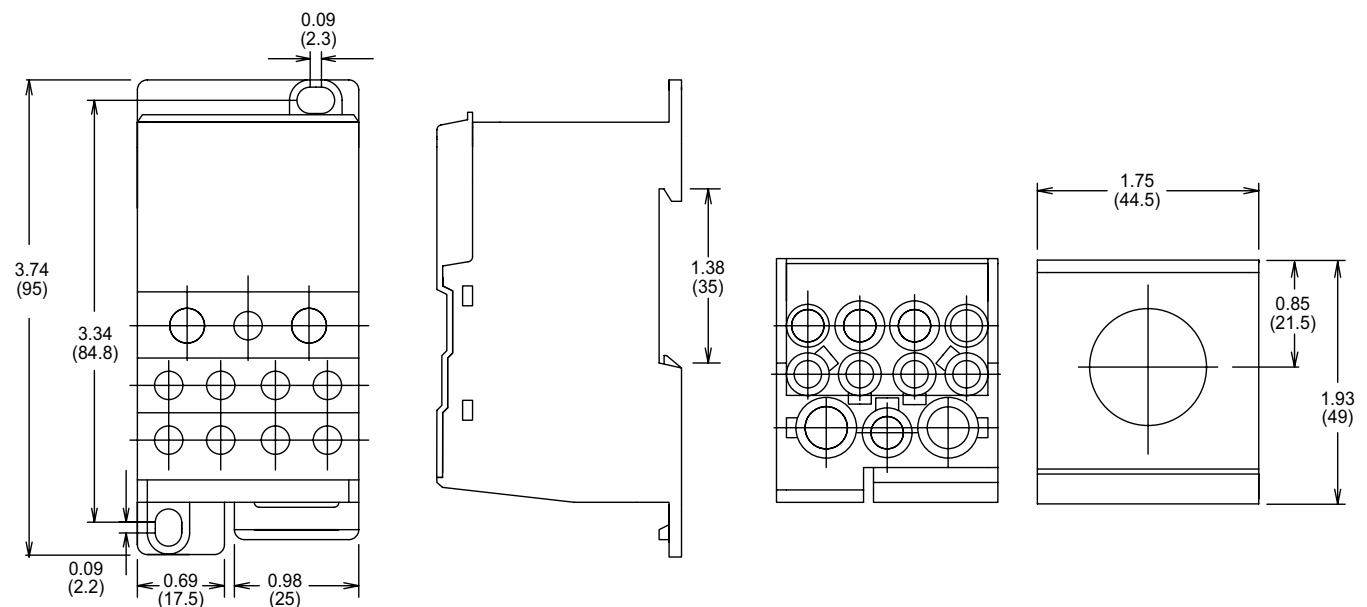
Dimensions Inches (mm)

GDB61153Z

GDB61753Z



GDB63101Z

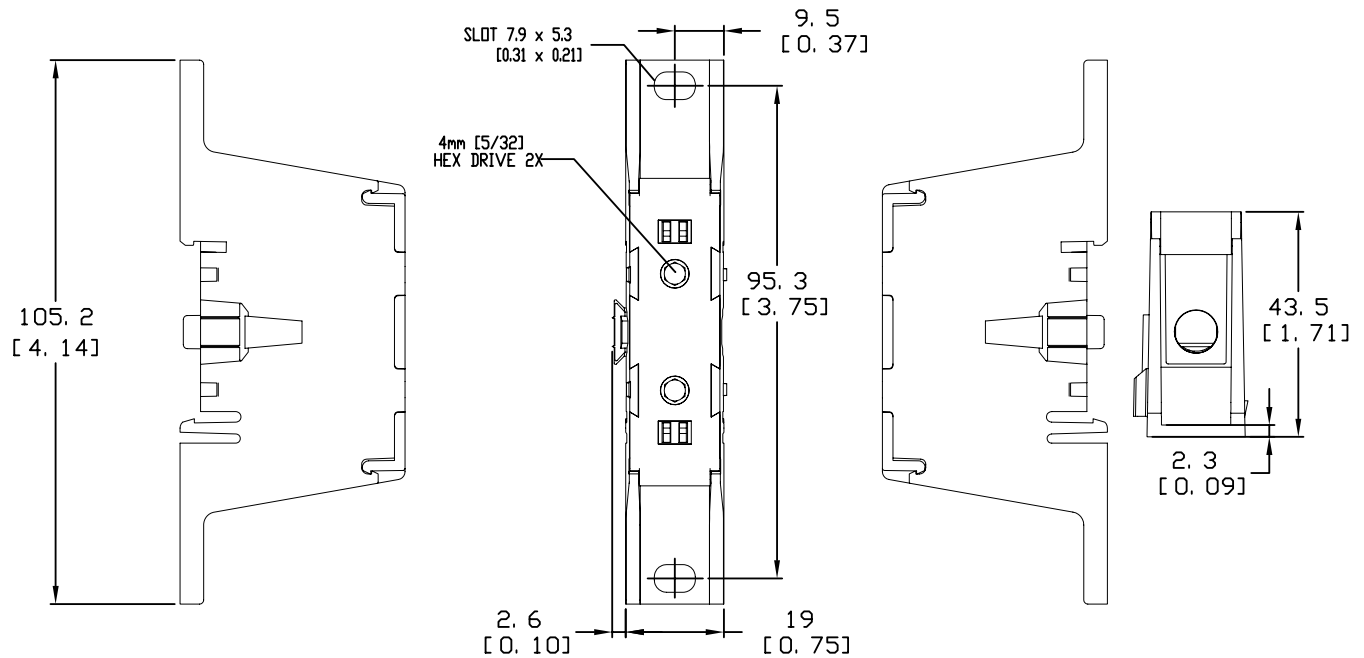


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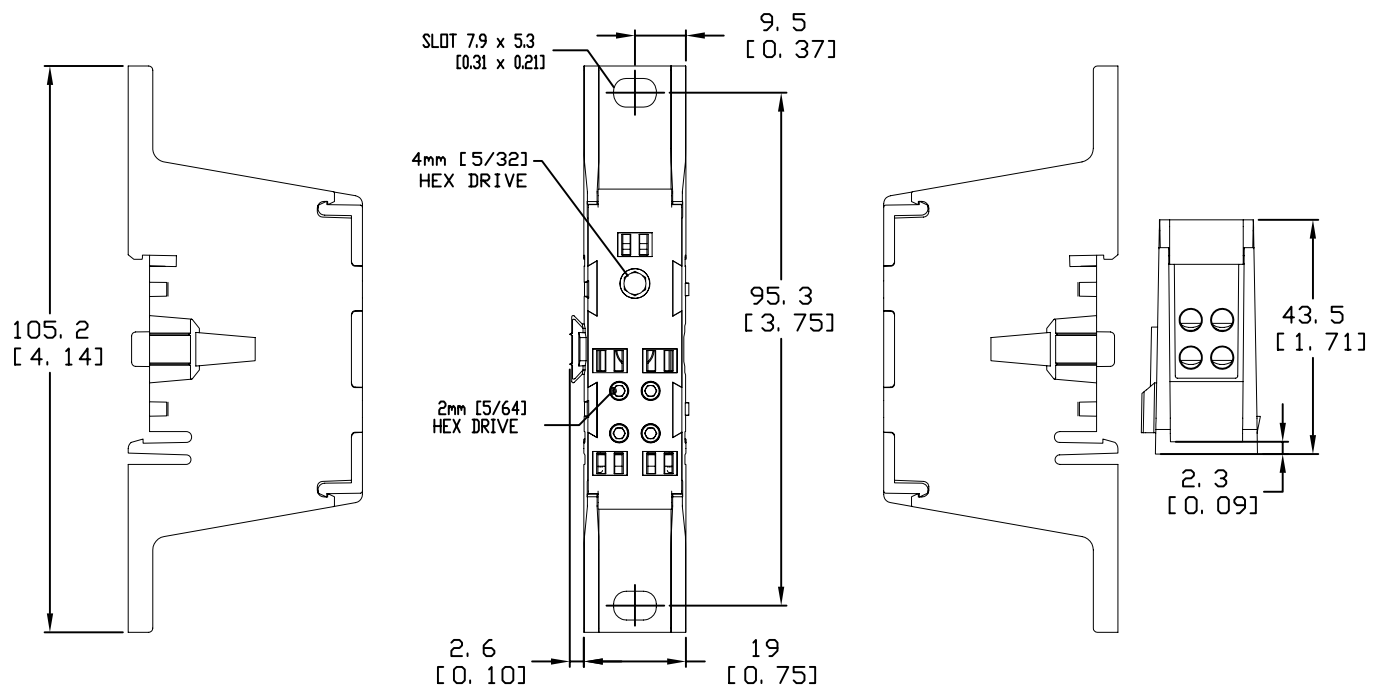
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Dimensions Millimeters (in)

GDBAD211Z



GDBAD241Z

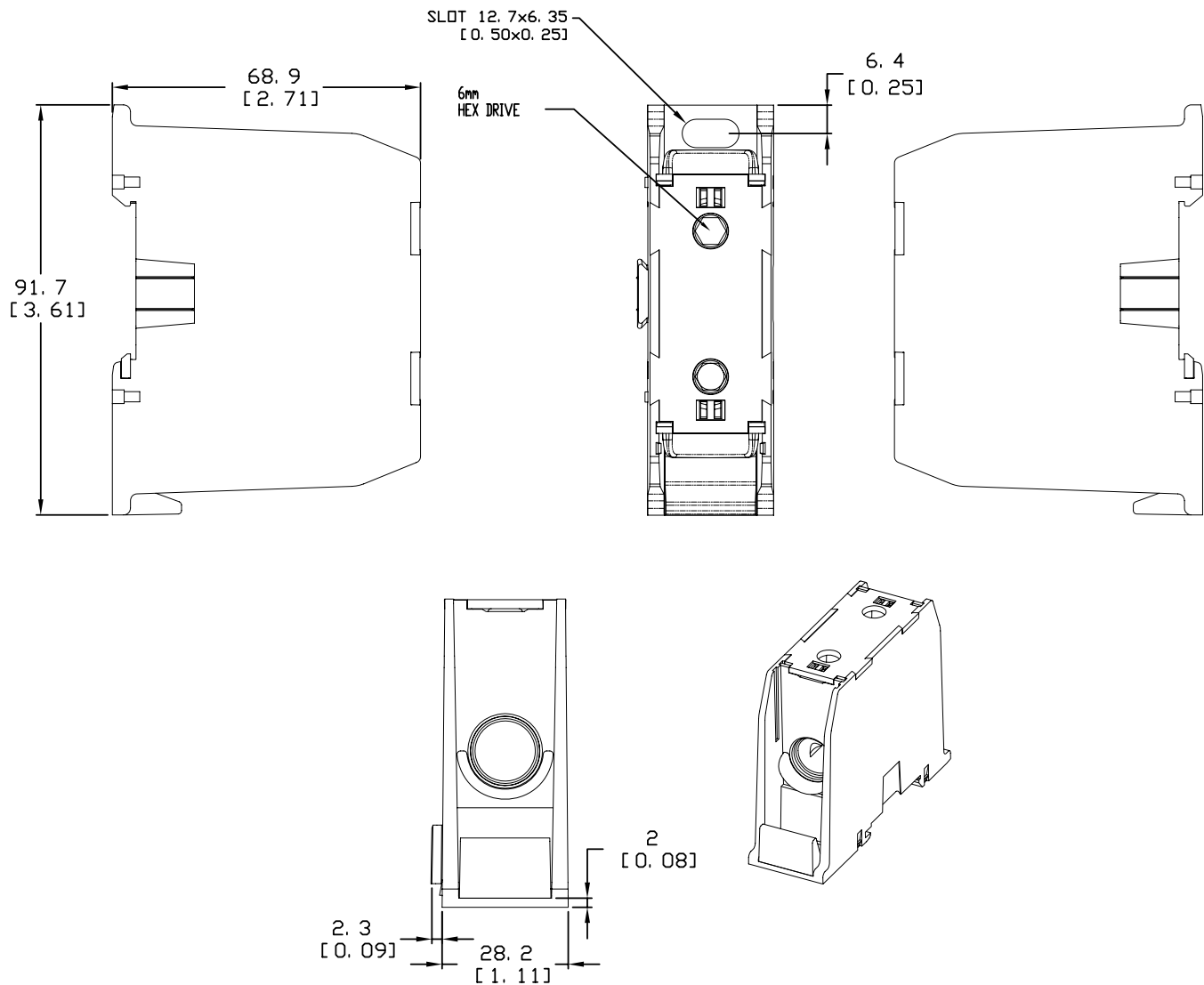


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Global Distribution Blocks

Dimensions Millimeters (in)

GDBAD421Z

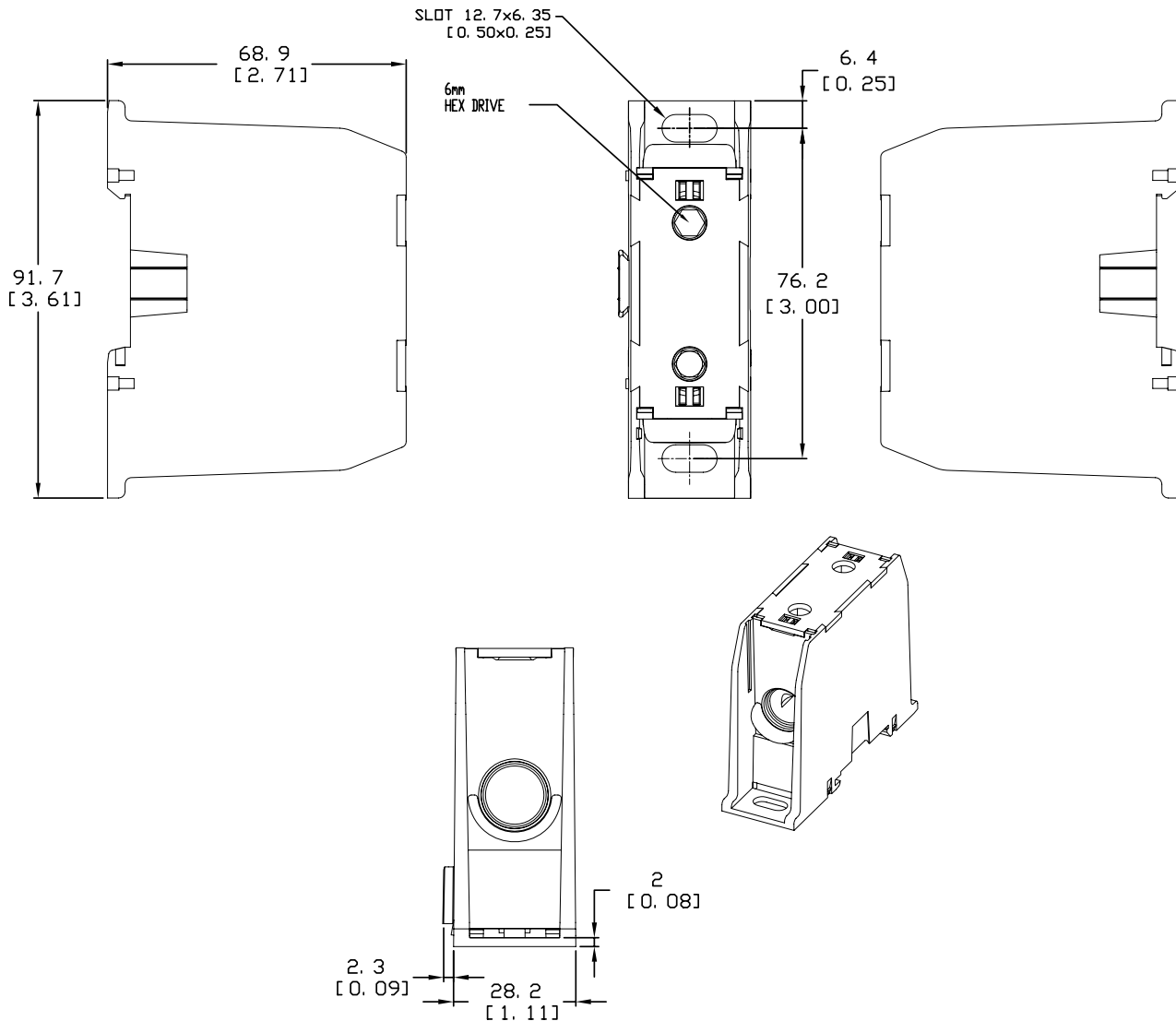


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Global Distribution Blocks

Dimensions Millimeters (in)

GDBAP421Z

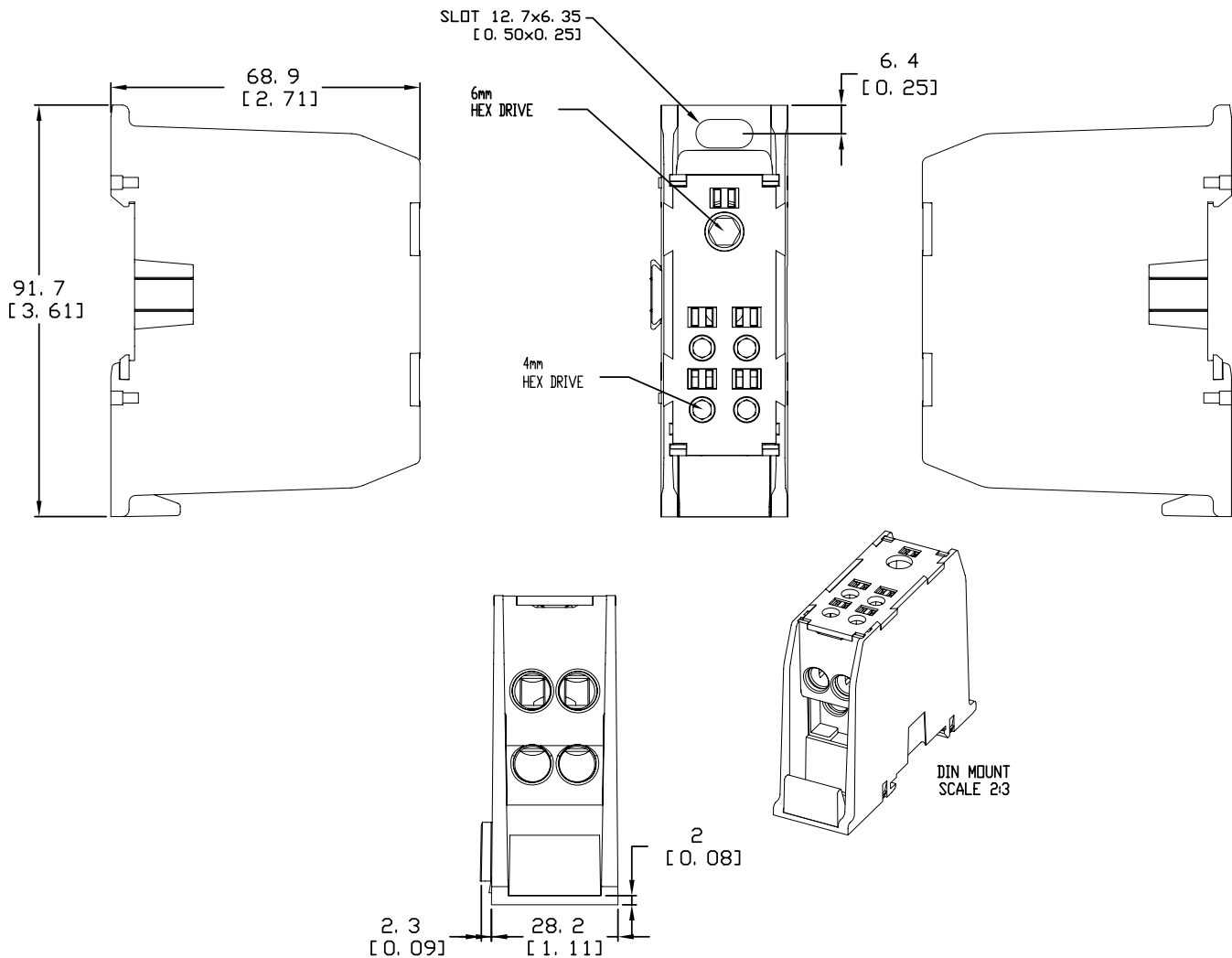


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Dimensions Millimeters (in)

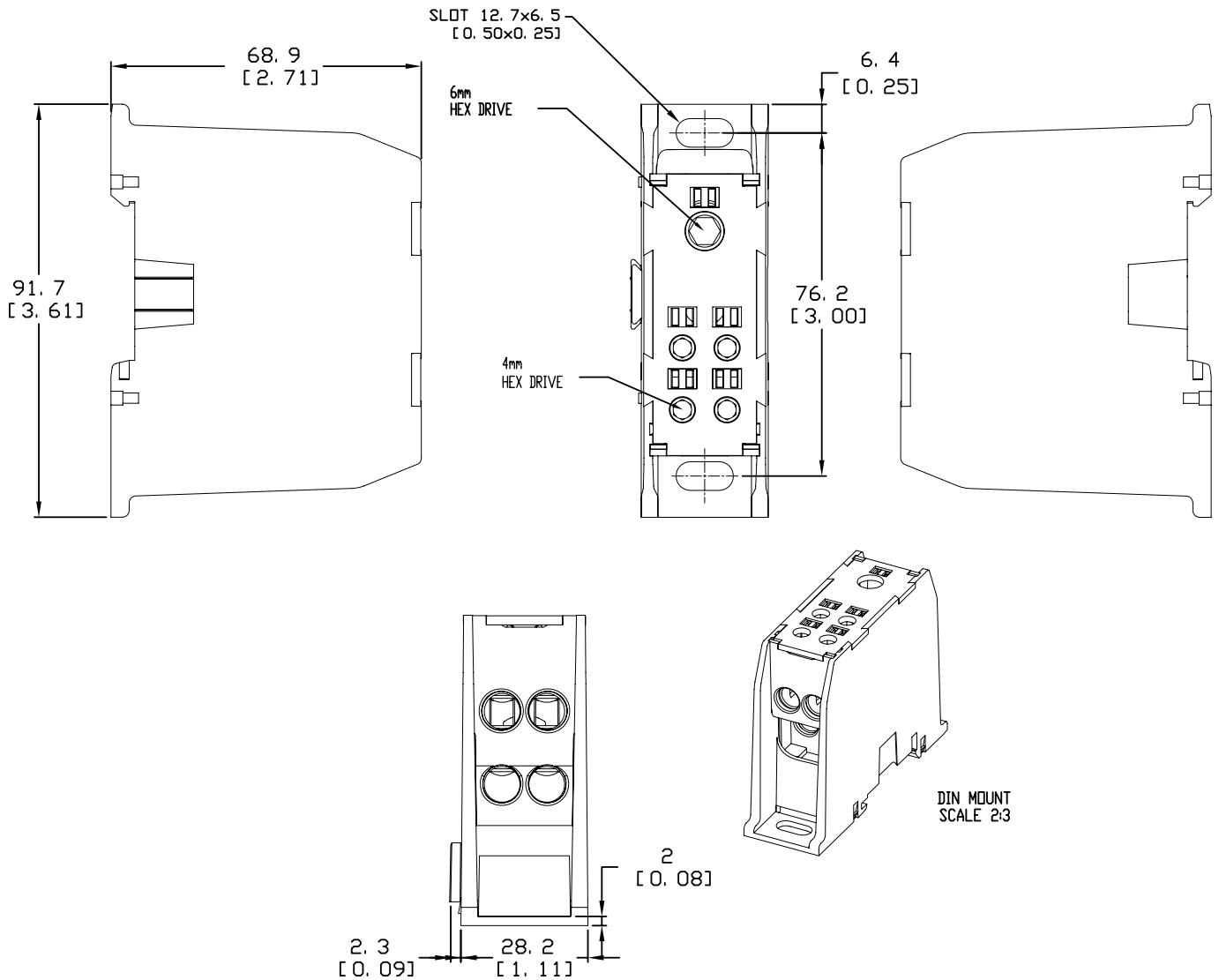
GDBAD451Z



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Dimensions Millimeters (in)

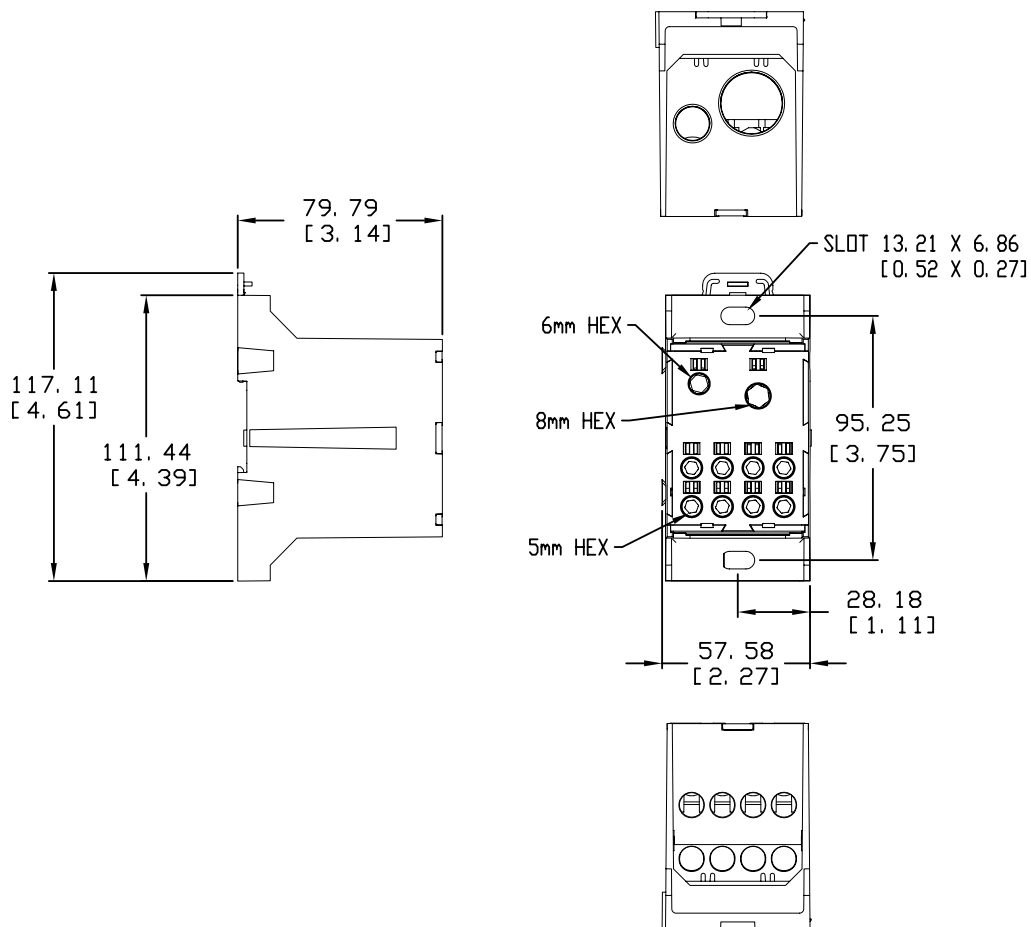
GDBAP451Z

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Global Distribution Blocks

Dimensions Millimeters (in)

GDBAD741Z



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