



6.1 Air Conditioning Disconnects

Product Description	V1-T6-2
Application Description	V1-T6-2
Features, Benefits and Functions	V1-T6-3
Standards and Certifications	V1-T6-3
Product Selection	V1-T6-4
Cross-Reference	V1-T6-6
Technical Data and Specifications	V1-T6-7
Dimensions	V1-T6-7



Revision notes

Volume 1—Residential and Light Commercial, CA08100002E

Tab 6—Air Conditioning Disconnects

Revision date	Section	Change page(s)	Description
04/22/2019	All	All	Updated to April 2019 print revision date



Powering Business Worldwide

Air Conditioning Disconnects



Complete Line of Fused, Unfused and Molded Case Switch Type Air Conditioning Disconnects

Contents

Description

	Page
Features, Benefits and Functions	V1-T6-3
Standards and Certifications	V1-T6-3
Product Selection	V1-T6-4
Cross-Reference	V1-T6-6
Technical Data and Specifications	V1-T6-7
Dimensions	V1-T6-7

Product Description

An air conditioning disconnect (ACD) is a disconnect located between a loadcenter (distribution panel) and air conditioner. Eaton's ACD product line provides an installer or repair personnel with a visible disconnecting means when performing maintenance. ACDs are also known as disconnects, pullouts or air conditioning switches.

Non-fused pullout and molded case switch devices provide personnel with a visible ON-OFF disconnecting means. While fused pullout units also perform this function, they also provide an additional level of protection for the air conditioner.

Fused and non-fused devices are of a pullout design, where the user physically removes or "pulls out" a tab to break the electrical connection. A molded case switch is similar to a light switch where the user "switches" the unit to the indicated ON-OFF position.

Fused and Non-Fused Pullouts

- ON/OFF control provided by a pullout handle
- Pullout handle can be conveniently stored in the compartment in the OFF position, helping to prevent the handle from being misplaced
- Protective shield cannot be removed until the pullout handle is removed, disconnecting the power

Molded Case Switch

- Rugged molded case construction in a disconnect switch that looks like a circuit breaker but operates like an ordinary household light switch
- Plug-in molded case switch (included) eliminates the need for pullout handles
- No need for replacement pullout handles due to loss or theft

Application Description

The most widely used application for ACDs is for residential and light commercial air conditioning units. An ACD is installed outdoors, in visible proximity to the air conditioner condensing unit. ACDs are also found in use with heat pumps, swimming pools, spas, whirlpools and pump houses, and meet 2008 NEC Article 422.31 (B) requirements for servicing electric water heaters. Metallic enclosures are galvanized steel and are installed in various locations. Non-metallic enclosures are a plastic (polycarbonate) enclosure commonly used in coastal or salt-water areas.

Features, Benefits and Functions

- Single-phase, two-wire, 240 Vac and three-phase, three-wire, 240 Vac
- NEMA 3R outdoor enclosures offered in metallic and non-metallic versions
- Easy-to-remove high-strength protective shield for easier wiring and mounting
- Easy-to-remove front cover (no screws or fasteners to remove)
- 1-inch knockouts on the bottom, back and side of unit
- Copper-rated line and load lugs that are easily accessible
- Ample wiring space for mounting with a stud gun (single keyhole, two- or three-point mounting)
- Fused devices are service entrance rated
- Horsepower rated (10 hp maximum at 240 Vac)
- Padlockable door provision for safety and reduction of tampering
- Metallic enclosures are bottom entry and exit only
- Non-metallic enclosures have knockouts and a hub provision for top access
- Non-metallic enclosures have a single unit door and protective shield for installer convenience
- Non-metallic enclosures are durable and provide excellent resistance to climate changes
- Factory-installed tamper-resistant/weather-resistant receptacles are available as an option on some products

Note: Fused non-metallic units require the addition of **GB4NM** ground bar to obtain a Service Entrance rating.

Standards and Certifications

- UL listed File No. E132354, E143893, E196365



Contact Eaton for details and part numbers for CSA approved units.

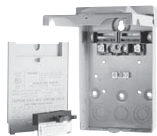
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Air Conditioning Disconnects

Fused, Unfused and Molded Case Switch

Product Selection

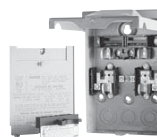
DPU222R



Non-Fused Pullouts

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu/Al 60 °C or 75 °C	Catalog Number
	120 V	240 V		
Galvanized Steel				
60	—	10	#14–3	DPU222R ①
Non-Metallic/Polycarbonate Enclosure				
60	—	10	#14–2	ACD222URNM-A2 ①

DPF222R

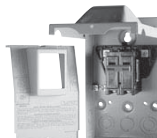


Fused Pullouts

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu/Al 60 °C or 75 °C	Catalog Number
	120 V	240 V		
Galvanized Steel				
30 ②	2	3	#14–3	DPF221R ①
60 ②	3	10	#14–3	DPF222R ①
Non-Metallic				
30	2	3	#14–2	ACD221RNM-A2 ①
60	3	10	#14–2	ACD222RNM-A2 ①

For Service Entrance applications, see footnotes below.

DPB222R



Molded Case Switch

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu/Al 60 °C or 75 °C	Catalog Number
	120 V	240 V		
Galvanized Steel				
60	—	10	#14–3	DPB222R ③
Non-Metallic/Polycarbonate Enclosure				
60	—	10	#14–2	B60NARNM-A2 ③

Notes

- ① For replacement pullout head, order part number **96-3258-4**.
- ② To obtain a Service Entrance Rating, the addition of a **DPFG** (ground bar kit) is required.
- ③ For replacement molded case switch, order part number **BR260NA**.

DPU222RGF20

ACD with 20 Ampere Ground Fault Receptacle ^①

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu/Al 60 °C or 75 °C	Catalog Number
	120 V	240 V		
Non-Fused Pullouts				
60	—	10	#14–3	DPU222RGF20WTST ②
60	—	10	#14–3	DPU222RGF20ST
Fused Pullouts				
30	2	3	#14–3	DPF221RGF20WTST ②
30	2	3	#14–3	DPF221RGF20ST
60	3	10	#14–3	DPF222RGF20WTST ②
60	3	10	#14–3	DPF222RGF20ST

DPU222RGF15

ACD with 15 Ampere Ground Fault Receptacle ^{①③}

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu/Al 60 °C or 75 °C	Catalog Number
	120 V	240 V		
Non-Fused Pullouts				
60	—	10	#14–3	DPU222RGF15ST
60	—	10	#14–3	DPU222RGF15WTST ②
Fused Pullouts				
30	2	3	#14–3	DPF221RGF15ST
30	2	3	#14–3	DPF221RGF15WTST ②
60	3	10	#14–3	DPF222RGF15ST
60	3	10	#14–3	DPF222RGF15WTST ②

Notes

- ^① Factory-installed GFCI receptacle.
^② Includes weather-resistant/tamper-resistant receptacles to meet 2008 NEC Article 406.8 (A) and 406.11 requirements.
^③ NEC permits the maximum receptacle rating of a 15 A circuit to be 15 A.

6.1

Air Conditioning Disconnects

Fused, Unfused and Molded Case Switch

DPU362A



Three-Phase Non-Fused ACD

Main Ampere Rating	Maximum hp Rating		Wire Size Range Cu 75 °C	Catalog Number
	240 V	480 V		
60	15	30	#14–4	DPU362RA

6

Cross-Reference

Cross-Reference

Description	Catalog Number					
	Eaton	Square D®	GE®	Siemens® (Murray®)	Milbank	Midwest
Metallic/Galvanized Steel Enclosure						
30 A fused	DPF221R	—	TF30R	WF2030	U3830	U035F2
60 A fused	DPF222R	—	TF60R	WF2060	U3860	U065F1
60 A non-fused	DPU222R	—	TFN60R	—	U3800	U065P010
60 A non-fused compact design	DPU222R	—	—	WNFC2060	—	—
60 A molded case switch	DPB222R	QO200TR	TNA60R1	WNAS2060	—	U065NA1
60 A non-fused with ground fault receptacle	DPU222RGF20ST	—	TFN60RGFR	WN2060GFCL	U3822-20GR	U065P010
30 A fused with ground fault receptacle	DPF221RGF20ST	—	—	WF2030GFCL	—	U035F010
60 A fused with ground fault receptacle	DPF222RGF20ST	—	—	WF2060GFCL	—	U065F010
60 A non-fused with 1/2-inch wire harness	DPU222R12W ①	—	—	—	—	—
60 A non-fused with 3/4-inch wire harness	DPU222R34W ①	—	—	—	—	—
60 A three-phase 600 V molded case switch	DPU362RA	—	—	—	—	U0653F
Non-Metallic/Polycarbonate Enclosure						
30 A fused	ACD221RNM-A2	—	TPF30R	WF2030PL	—	P035F
60 A fused	ACD222RNM-A2	—	TPF60R	WF2060PL	—	P065F
60 A non-fused	ACD222URNM-A2	—	TPN60R1	WN2060PL	—	P065P1
60 A molded case switch	B60NARNM-A2	QO200TRNM	TPNA60R1	WNAS2060PL	—	P065NA1
30 A fused with 15 A ground fault receptacle	DPF221RGF15WRTRST	—	—	—	—	—
30 A fused with 20 A ground fault receptacle	DPF221RGF20WRTRST	—	—	—	—	—
60 A fused with 15 A ground fault receptacle	DPF222RGF15WRTRST	—	—	—	—	—
60 A fused with 20 A ground fault receptacle	DPF222RGF20WRTRST	—	—	—	—	—
60 A non-fused with 15 A ground fault receptacle	DPU222RGF15WRTRST	—	—	—	—	—
60 A non-fused with 20 A ground fault receptacle	DPU222RGF20WRTRST	—	—	—	U3822-20GWR	—

Note

① Eaton Quick ProSM designated item.

Technical Data and Specifications

- 10,000 amperes rms symmetrical interrupting rating
- Horsepower rated
- Fusible and non-fusible pullout and molded case switch designs
- 30 and 60 amperes available in fusible
- 60 amperes available in non-fusible and molded case switch
- Class H fuse clips provided on fusible pullout design
- WTST (weather-resistant/tamper-resistant with ground fault self-test) receptacle available

Dimensions

Approximate Dimensions in Inches (mm)

Dimensions and Shipping Carton Information

Catalog Number	Carton Quantity	Dimensions in Inches (mm)		Depth	Weight Lbs (kg)
		Height	Width		
Metallic/Galvanized Steel Enclosure					
DPF221R	10	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
DPF222R	10	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
DPU222R	10	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
DPB222R	10	8.60 (218.4)	5.30 (134.6)	3.74 (95.0)	34 (15)
DPU222R12W ①	1	14.75 (374.6)	12.50 (317.5)	4.00 (101.6)	6 (3)
DPU222R34W ①	1	14.75 (374.6)	12.50 (317.5)	4.00 (101.7)	6 (3)
DPU222RGF20ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF221RGF20ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF222RGF20ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPU222RGF15ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF221RGF15ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF222RGF15ST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF221RGF15WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF221RGF20WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF222RGF15WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPF222RGF20WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPU222RGF15WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPU222RGF20WTST	1	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
DPU362R	1	8.60 (218.4)	5.30 (134.6)	3.74 (94.9)	4 (2)
Non-Metallic/Polycarbonate Enclosure					
ACD221RNM-A2	10	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
ACD222RNM-A2	10	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
ACD222URNM-A2	10	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
B60NARNM-A2	10	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	18 (8)

Note

① Eaton Quick Pro designated item.

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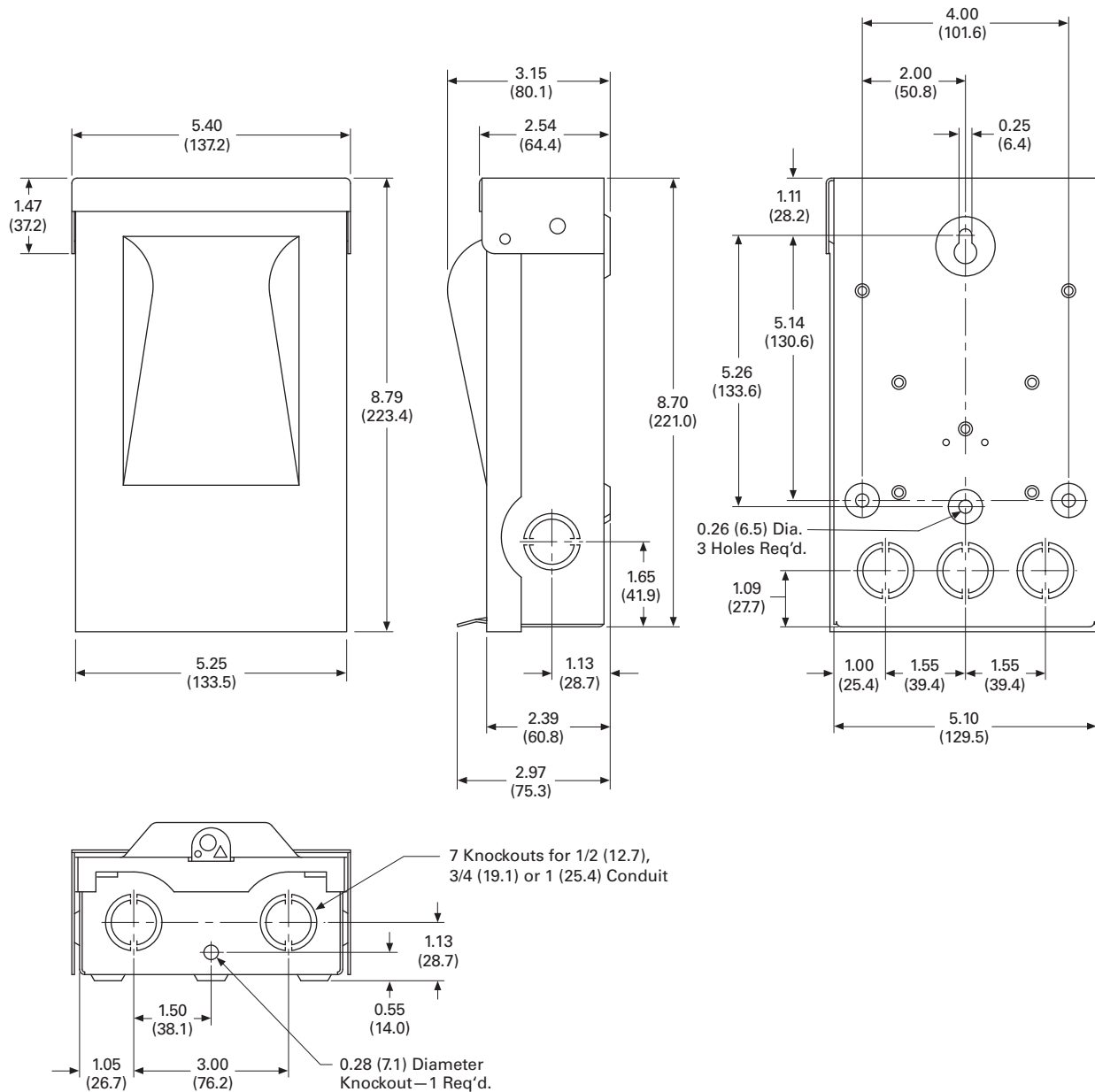
Air Conditioning Disconnects

Fused, Unfused and Molded Case Switch

Approximate Dimensions in Inches (mm)

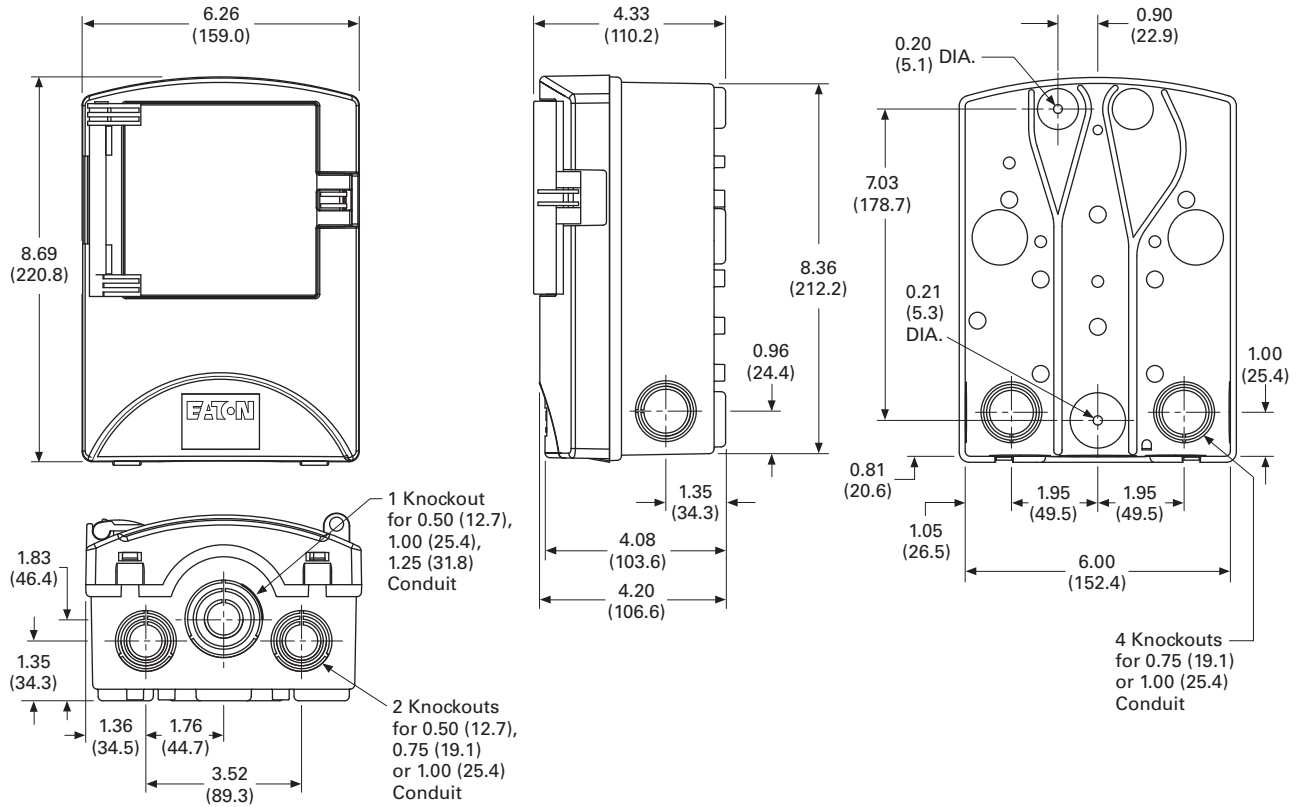
DPF221R, DPF222R, DPU222R, DPU222R12W and DPU222R34W

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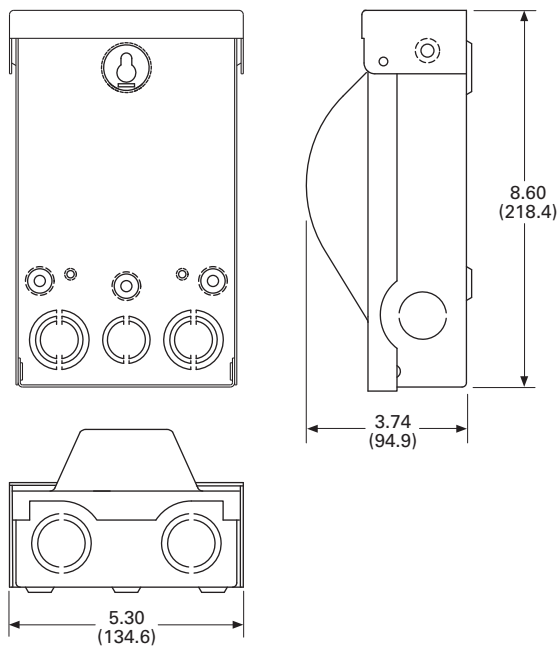


Approximate Dimensions in Inches (mm)

ACD221RNM-A2, ACD222RNM-A2, ACD222URNM-A2 and B60NARNM-A2



DPB222R and DPU362A



Air Conditioning Disconnects

Fused, Unfused and Molded Case Switch

Approximate Dimensions in Inches (mm)

DPU222RGF20, DPF221RGF20, DPF222RGF20, DPU222RGF15, DPF221RGF15, DPF222RGF15, DPF221RGF15WTST, DPF221RGF20WTST, DPF222RGF15WTST, DPF222RGF20WTST, DPU222RGF15WTST and DPU222RGF20WTST

