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### **Features**

- Remote actuator unit is factory-fitted on the left hand side of the DD-Frame circuit breaker
- The RAU module is designed to function on a wide voltage range: 18 Vdc to 80 Vdc
- The RAU can be supplied from the main system voltage or a standalone source
- The DD-Frame circuit breaker operates on the main system voltage, AC or DC
- LED for status indication
- Selectable remote or manual operation
- Provides status of the load side of the circuit breaker
- Remote switching operation requires a high or low signal
- Colour indicator for state of circuit breaker red (ON) or . green (OFF)
- Actuation of circuit breaker occurs internally
- Compact size (19 mm, matching DD-Frame outline)
- Can be paired with up to a 3 pole DD-Frame ciruit breaker
- Device can be locked out to prevent manual operation

## Applications

- Battery management
- Telecommunications
- Railways
- Solar
- System automation
- Switching operations in distant, inconvenient, or unreachable environments

The remote actuation unit (RAU) is a factory-fitted module that enables the automated switching of a DD-Frame circuit breaker. The RAU internally actuates the circuit breaker both ON and OFF. The RAU is mounted on the left hand side of the circuit breaker and can actuate up to three poles. The RAU is available with circuit breakers with a standard toggle handle only. The unit has an LED that provides an indication of the mode of operation (remote or manual) and status. The second is a colour indicator which shows the position of the latching mechanism of the connected circuit breaker - green for OFF and red for ON. The RAU provides the option to set the operation mode between remote or manual. This is selected by a switch situated on the front of the RAU.

## **Approvals**











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RAU (LOCKOUT)-

SERIES-DAT

**REV.G JUNE 2023** 2304004



IEC 60934)



(UL489A) (CSA C22.2 No. 5-16)

(UL1077: CSA C22.2 NO.5) CSA C22.2 NO.235-04)

(IEC / EN 60947-2; (GB14048.2; IEC / EN 60934) GB17701)

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(UL489;

(VL)<sub>US</sub>

LISTER

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# Remote Actuator Unit (RAU) with Lockout for DD-Frame (D5)

## **Technical Data**

Product Type	RAU				
Supply voltage	18 Vdc to 80 Vdc				
Actuation signal voltage	HIGH (ON)	Min. 3.3 Vdc to Max. 60 Vdc	set		
(For other voltages refer to page 11)	LOW (OFF)	Min. 0.0 Vdc to Max. 0.5 Vdc	Sheet		
Starting current	< 250 mA				
Number of poles that can be actuated	1 to 3 pole DD-Frame - factory fitted				
Ambient operating temperature	-40 °C - +65 °C				
Typical actuation time	OFF state to ON state 2 seconds		Frame Circuit Breaker Data		
Typical actuation time	ON state to OFF state	1 second	Ci		
Power consumption	Idle mode	< 250 mW	ame		
Power consumption	During actuation	< 7.5 W			
Number of operations	In exce	ess of 2000	per DD		
Flammability	I3 No flames pe	ersistence at 850 °C	as b		
Toxicity	F2 - Smoke index of ≤ 40				
Pollution degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.				
Signal Out Resistance to LOAD terminal	330 κΩ	±5% (2 W)			

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breake	r	Circuit Breaker
Approvals	IEC / EN 60947-2, GB14048.2, CE, UKCA	IEC / EN 60947-2, GB14048.2, CE, UKCA	IEC60947-2, CE, UKCA		AS/NZS 60947-2, UKCA
Number of Poles	1, 2, 3	2 - 3 (parallel)	1p, 2p parallel, 3p pa	arallel	1, 2
Maximum Voltages	240 / 415 Vac, 80 Vdc	80 Vdc	60 Vdc		125Vdc
Current Ratings	0.1 - 60 A(ac) 0.1 - 100 A(dc)	110 - 250 A	125 A, 250 A, 300 A 0.1 - 60		0.1 - 60 A
Ics	5 kA (DC),1.25kA (AC),	5 kA	2.5kA		2.5kA
Icu	3 kA (AC) 5 kA (AC) 10 kA (DC)	10 kA	5 kA		5 kA
Product Type	Product Type Circuit Breaker		er		Circuit Breaker
Approvals	UL489	UL489 A, CSA C22.2	No. 5-16	UL4	489A, CSA C22.2 No. 5-16
Number of Poles	1, 2, 3	1, 2, 3	1, 2, 3 2 - 3 (parallel)		2 - 3 (parallel)
Maximum Voltages	120 Vac, 120 / 240 Vac, 240 Vac, 80 Vd	c 60 Vdc		80 Vdc	
Current Ratings	0.1 - 80 A(ac) 0.1 - 100 A(dc)	125 A, 250 A, 30	10 A		110 - 250 A
AIC	AC -10 kA , DC - 20 kA	14 kA			10 kA

Product Type	Circuit Breaker	Circuit Breaker	Switch
Approvals	IEC / EN 60934, CE, GB17701	UL1077, cURus	-
Number of Poles	1 - 4	1 - 6	-
Maximum Voltages	240 / 415 Vac, 80 Vdc	277 / 480 Vac, 80 Vdc	-
Current Ratings	0.1 A - 100 A (1 p), 0.1 A - 70 A (2 - 3 p)	.1 A - 100 A (1 p), 0.1 A - 70 A (2 - 4 p)	-
Interrupting Capacity	-	2 kA/U2/ U3 (AC) 5 kA/C1 (AC) 5 kAU2/ U3 (DC)	-
Rated conditional S/C	3 kA (AC) PC1, 5 kA (DC) PC1	-	-
Icm	-	-	0.6 kA (for 1 switch)

### **Torque Table**

Description	Size	Torque Value
Front Inserts	M3	0.5 - 0.8 N.m
	6 - 32	5 - 7 lbf.in
	M5	2.0 - 2.8 N.m
Rear Studs	10 - 32	18 - 24 lbf.in
Real Sluus	M6	3.5 - 4.0 N.m
	1/4 - 20	30 - 35 lbf.in
Flush Rear Screws	M5	1.7 - 2.3 N.m
riush kear Screws	10 - 32	15 - 20 N.m
		·

	Aux Switch Specification
Gold DB3	EN61058 0.1 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 0.1 A @ 125/250 Vac & 0.1 A @ 30 Vdc & 0.3 A @ 60 Vdc
Silver DB2	EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 10 A @ 125/250 Vac
Silver V4D	EN61058-1 10 A @ 250 Vac

## **Ordering Information**

Group 1:	Code		Description			Co	mments	
Frame	D		DD-Frame RAU					
Group 2:	Code		Description			Co	mments	
Туре	5	RAU-Lockout type (18	- 80 Vdc) Fitted on	Left of Circuit Breaker		RAU D5 + 1 <sup>st</sup> (	Circuit Breaker pole	
	2	Additi	onal Circuit Breake	r pole		Maximum of 2 addition	onal Circuit Breaker p	oles
Group 3:	Code		Description				Comments	
Mounting	A	Front Mount, Rectan	- · · ·	indard Toggle Handle	Maxim	um penetration depth into the		nting screw is 6mm
Group 4: Handle Type or	Code		Description			Co	mments	
Blank for Reduced Handle	А	Sta	andard Toggle Hand	dle	Standard Toggle Handle, goes to Off Position when tripped			hen tripped
Group 5:	Code		Description		Comments			
Termination	3X					0 A Max per terminal (80 Vdc connector has sufficient spa	ice so as not to interfe	
	4X		Screw Terminal, (M	,			x per terminal	
	5X		nnect Terminal (0.8	,			x per terminal	
	AX MX		Ferminals, (M5 or 10 Ferminals, (M6 or 1/4	· · · · · · · · · · · · · · · · · · ·			x per terminal	
Group 6:	Code	3100	Description	+ = 20)			mments	
Total No. of Poles	2	Two pole – METR	IC - RAU + 1 DD C	ircuit Breaker pole			modules in total	
	3						modules in total	
	4	Three pole – METRIC - RAU + 2 DD Circuit Breaker poles Four pole – METRIC - RAU + 3 DD Circuit Breaker poles				Four pole	modules in total	
	В	Two pole – IMPERIAL - RAU + 1 DD Circuit Breaker pole				Two pole r	modules in total	
	С	Three pole – IMPERIAL - RAU + 2 DD Circuit Breaker poles					modules in total	
	D	Four pole – IMPERI		Circuit Breaker poles			modules in total	
Group 7: Rated Voltages							mments	
and Frequency -	H	120\/aa 240\/aa (Applicable	125Vdc	le DD Frame Circuit Breaker)	0.1 A - 60 A Max. (Single pole only)			
Main Circuit	K				Refer to Certificates for Approval details Refer to Certificates for Approval details			
	M	240 Vac; 277Vac (Applicable to Recognized Single Pole DD Circuit breaker AC & DC Application for Multipole Units (80 Vdc, 240Vac, 240/415 Vac & 277/480 Vac)				Refer to Certificates for Approval details		
-	N	80 Vdc				Refer to Certificat	tes for Approval detai	ls
	R	120/240 Vac, 240 Vac, 240/415 Vac; 277/480 Vac (Applicable to Recognized Multipole Products)			Refer to Certificates for Approval details			
	S	120/240 Vac, 240 Vac or 240/415 Vac (Applicable to Listed Multipole Products)			Refer to Certificates for Approval details			
	V	60 Vdc				No Trip A	Alarm, Mid Trip	
Group 8: Time Delay Characteristics	Code	Description	System	Pulse Tolerance (X In)	Code	Description	System	Pulse Tolerance (X In)
(Pulse Tolerance @ 10 ms)	AD	Long delay 50 / 60 Hz AS & dual rated	AC and DC	8 - 10	СН	Short delay 50 / 60 Hz CS & high inrush	AC	12 - 15
	BD	Medium delay 50 / 60 Hz BS & dual rated Short delay 50 / 60 Hz	AC and DC	8 - 10	AS	Long delay 50 / 60 Hz	AC or DC	8 - 10
	CD	CS & dual rated Long delay 50 / 60 Hz	AC and DC	6 - 8	BS	Medium delay 50 / 60 Hz	AC or DC	8 - 10
	AE	AH & inertia delay Medium delay 50 / 60 Hz	AC	28 - 35	CS	Short delay 50 / 60 Hz Long delay 50 / 60 Hz	AC or DC	6 - 8
	BE CE	BH & inertia delay Short delay 50 / 60 Hz	AC	28 - 35	AW	AD & inertia delay Medium delay 50 / 60 Hz	AC and DC	16 - 20 16 - 20
	AI	CH & inertia delay Long delay 50 / 60 Hz	AC or DC	16 - 20	CW	BD & inertia delay Short delay 50 / 60 Hz	AC and DC	10 - 20
		AS & inertia delay Medium delay 50 / 60 Hz BS & inertia delay	AC or DC	16 - 20	НЗ	CD & inertia delay Short delay	DC	6 - 8
	BI					Instantaneous trip 50 /	AC or DC	None
	BI	Short delay 50 / 60 Hz	AC or DC	12 - 15	OP	60 Hz I		110110
			AC or DC	12 - 15 16 - 20	OP OX	60 Hz Switch 50 / 60 Hz	AC and DC	
	СІ	Short delay 50 / 60 Hz CS & inertia delay Long delay 50 / 60 Hz						
Group 9:	CI	Short delay 50 / 60 Hz CS & inertia delay Long delay 50 / 60 Hz AS & high inrush Medium delay 50 / 60 Hz	AC	16 - 20		Switch 50 / 60 Hz		
Group 9: Main Circuit Current	CI AH BH Code XXXX	Short delay 50 / 60 Hz CS & inertia delay Long delay 50 / 60 Hz AS & high inrush Medium delay 50 / 60 Hz BS & high inrush	AC AC Description rent, for voltage trip	16 - 20 16 - 20		Switch 50 / 60 Hz	AC and DC	
Group 9: Nain Circuit Current	CI AH BH Code XXXX 100M	Short delay 50 / 60 Hz CS & inertia delay Long delay 50 / 60 Hz AS & high inrush Medium delay 50 / 60 Hz BS & high inrush	AC AC Description rent, for voltage trip 0.1 A	16 - 20 16 - 20		Switch 50 / 60 Hz	AC and DC	
Main Circuit	CI AH BH Code XXXX	Short delay 50 / 60 Hz CS & inertia delay Long delay 50 / 60 Hz AS & high inrush Medium delay 50 / 60 Hz BS & high inrush	AC AC Description rent, for voltage trip	16 - 20 16 - 20		Switch 50 / 60 Hz	AC and DC mments sible from 0.1 A to 250	

## Continues on page 4

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### **Ordering Information**

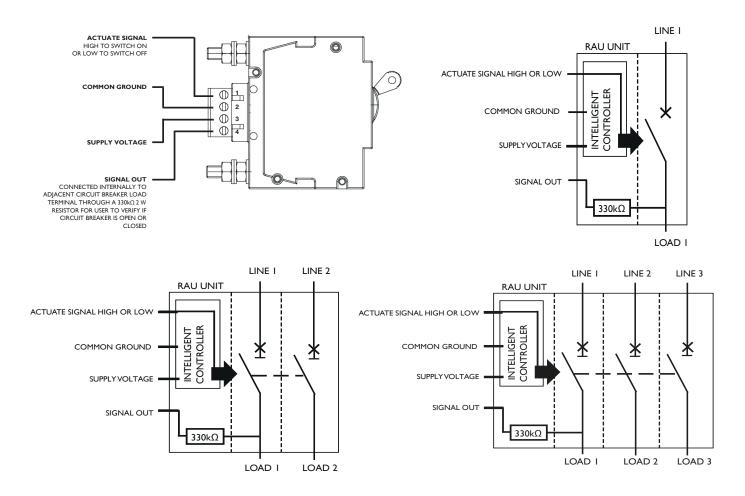
		<b>—</b> • • •	
Group 10: Circuit	Code	Description	Comments
Configuration	BX	Circuit Breaker (Series Trip Current Sensing)	
(circuit breaker's	KX	Circuit Breaker with Auxiliary Switch	
internal construction)	MX	Circuit Breaker with Trip Alarm, but NO Mid Trip (Reversed Function - Latch Type)	Handle goes to OFF position when tripped and send a Trip Alarm
Group 11:	Code	Description	Comments
Auxiliary and Alarm Switches	А	DB3-Gold Tips, Equally Spaced Terminals, 2.75 mm (0.108") - EN61058	
Types & Options		0.1 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 0.1 A	
(Refer to Aux switch	В	DB2-Silver Tips, Equally Spaced Terminals, 2.75mm (0.108") - EN61058 10 A @ 250 Vac & 0.1A @ 80 Vdc and UL1054 10A	
specification on	С	V4D - Silver Tips, Offset Terminals, 4.75 mm (0.189") - (10 A @ 250 Vac)	
page 2)	М	Parallel Bridge Housing - For all Parallel Bridged Poles	Use M for ALL Parallel Bridged Products
	Х	Not Applicable	
Group 12:	Code	Description	Comments
Voltage and Current Ratings for Dual Control, Shunt and Relay Trip Construction	xx	Not applicable	
Group 13:	Code	Description	Comments
Terminal Options for Dual Control, Shunt and Relay Coils	x	Not applicable	
Group 14:	Code	Description	Comments
Future Use	Х	Not applicable	
Group 15:	Code	Description	Comments
Customer Specific	Х	Not applicable	
Specific	S	Customer Specific Product	
Group 16:	Code	Description	Comments
Handle Colour	В	Black handle, white marking.	Standard Toggle handle only
	w	White handle, black marking	Standard Toggle handle only
Group 17:	Code	Description	Comments
Handle Markings	D	I - O/On - Off	
Group 18:	Code	Description	Comments
Mounting Orientation for Marking	V	Vertical, Standard Mounting, Line at the Top	
Group 19:	Code	Description	Comments
Front Plate Marking and Test Button	А	Standard Marking on Standard Toggle handle	I – O and ON - OFF and ampere rating
Group 20:	Code	Description	Comments
Inter-phase Barrier and	1	Terminal cover(s)	
Terminal Cover	2	Inter-phase barrier & terminal cover - small	
	3	Inter-phase barrier & terminal cover - large	
	4	Inter-phase barrier & terminal cover - Z type	
	A	Inter-phase barrier a terminal cover - 2 type	
	B	·	Inter-phase barriers and terminal covers may be required for multi-pole products with
	C	Inter-phase barrier - large Inter-phase barrier - Z type large	UL listed and UL recognised approvals.
	D	Inter-phase barrier - Z type small	See DD-Frame Technical Guide.
	X	Not applicable	
Group 21:	Code	Description	Comments
Approvals	1	UL recognized UL1077, CUR, IEC/EN60934, CE, UKCA	Normally certified to these specifications
(Product Normally Approved to)	2	UL listed UL489, CUL, IEC/EN60947-2, CE, UKCA	Normally certified to these specifications
	3	UL listed UL489A, IEC/EN60947-2, CE, UKCA	Normally certified to these specifications
Group 22:	Code	Description	Comments
Safety Marks	X	Not applicable	
	C	GB/T 14048.2, CCC	
	U U	00/1 17040.2, 000	

Verify approvals for specific ratings in accordance with the relevant test certificate

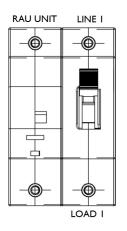
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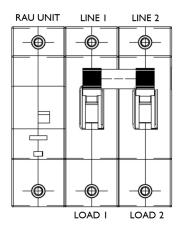
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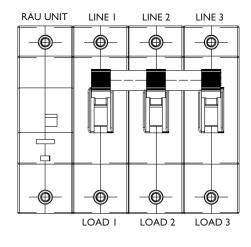
### **Connection Diagrams**



Note: Signal out only provides status indication of the adjacent pole through a 330 kΩ resistor.







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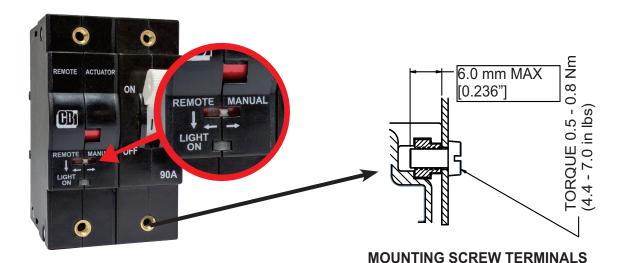
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Plug compatible with DEGSON 2EDGKF-5.08-04P -14 and a PHOENIX CONTACT plug 1780002.



The RAU front switch has two positions, namely "Remote" or "Manual". Refer to table 1 on page 7 for more details.



### Installation Instructions

- 1. Before connecting the RAU to power, the circuit breaker must be in the OFF position and the RAU front switch must be in the REMOTE position.
- 2. Isolate the power to the circuit breakers.

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- 3. Connect the circuit breakers as required and connect the necessary wiring for the RAU as shown in the connection diagram (page 5).
- 4. With the circuit breaker in the OFF position, activate the supply to the circuit breakers and the RAU. The LED on the RAU will flash 3 times during its initialisation process. The LED will then illuminate, indicating that the RAU is now ready for operation.

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## **Remote Operation**

Set the front switch to REMOTE to enable remote operation. The LED will be illuminated

#### 1. Switching the circuit breaker ON using the RAU:

- Set the actuate signal HIGH. This will switch the circuit breaker ON remotely. While the actuate signal remains in the HIGH state, the circuit breaker can be operated manually like a conventional circuit breaker.
- 2. Switching the circuit breaker OFF using the RAU:
  - Set the actuate signal LOW. This will switch the circuit breaker OFF. While the acuate signal is LOW, the circuit breaker will be internally held in the tripped position and cannot be switched ON manually.
- 3. If the circuit breaker trips, then to remotely switch the breaker ON again, the Actuate Signal must be set to LOW and then a HIGH signal must be reapplied.

#### NOTE:

- DO NOT move or block the circuit breaker handles while the RAU is actuating remotely.
- DO NOT change the state of the actuate signal or RAU front switch rapidly, or while the circuit breaker is in motion, allow atleast a 3 seconds waiting period before changing the state.

### **Manual Operation**

Set the front switch to MANUAL to disable remote operation. Manual mode prevents the breaker from automatically turning on.

Changes to the remote signal enables or disables the lock-out features:

A breaker that was manually turned on, will trip to lock out if the remote signal goes LOW. The LED blinks to indicate this state.

If subsequently the actuation signal goes HIGH, manual operation becomes possible again.

The breaker will not turn on automatically while manual - only unlock internally

The feature ensures that lock-out can always be enforced when required

### The RAU Operation

The RAU will trip the circuit when the RAU front switch is toggled. RAU operation can be described in terms of changing states based on the remote signal or the front switch. The various states are as follows:

		Initial State	9		Cł	nange	Response	
State	Signal	Switch	LED	Manually Operable	Signal	Switch	RAU Action	New State
٨	HIGH	DEMOTE		Yes	to LOW		turns off and block manual operation	С
A	пібп	REMOTE	ON	res		to MANUAL	turns off to enter manual	В
В	HIGH	MANUAL	OFF	Yes	to LOW		turns off and block manual operation	D
D	пібп	MANUAL	UFF	res		to REMOTE	turns off, then turns on to enter remote	A
С	LOW	REMOTE	ON	No	to HIGH		turns on	Α
		REMOTE	UN	INO		to MANUAL	remians blocked in off position	D
D	LOW	MANUAL	Blink	No	to HIGH		unblock maunal operation	В
	LOW	MANUAL	DIITIK	INO		to REMOTE	enter remote mode in off position	С

Table 1: RAU front switch and operation states



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## **LED Status Indication**

LED State	Indication
Flash 3 times	Initialisation
Flash 3 times every 4 seconds	Fault state
ON	Remote actuation mode
OFF	Manual operation mode
Blinking	User will not be able to switch breaker on manually
2 Short flash & 1 long flash	Initialisation fault

## **Application Notes:**

## **RAU powered from Negative DC Bus**

The DD-frame RAU requires a positive supply voltage between 18 Vdc and 80 Vdc to operate, however, systems may only have a negative voltage supply available. The RAU is able to accommodate such environments. Figure 1 shows an example of an RAU in a telecommunications applications which only has a -48 Vdc bus voltage available. Resistor R is required if the potential difference between the Actuate Signal pin and the Common pin is greater than 60 Vdc.

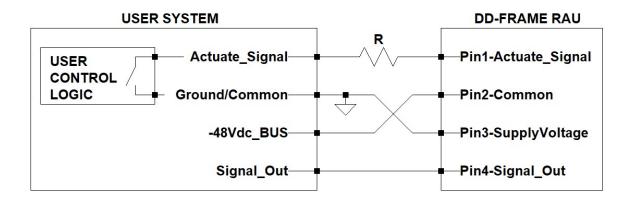


Figure 1: Wiring diagram example for DD-Frame RAU powered from negative supply bus in a -48 Vdc telecommunications application

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## Using the Signal Out

Signal out can have many functions and is not just an auxiliary contact to indicate the open / closed state of the circuit breaker. The signal out function will depend on its specific application. This application note will convey the function of signal out for various applications under resistive loads only.

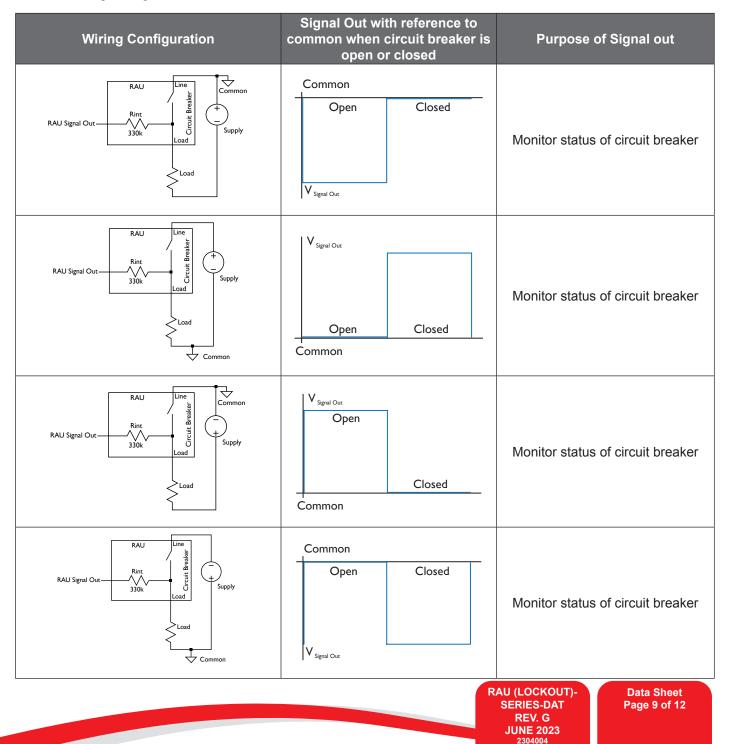
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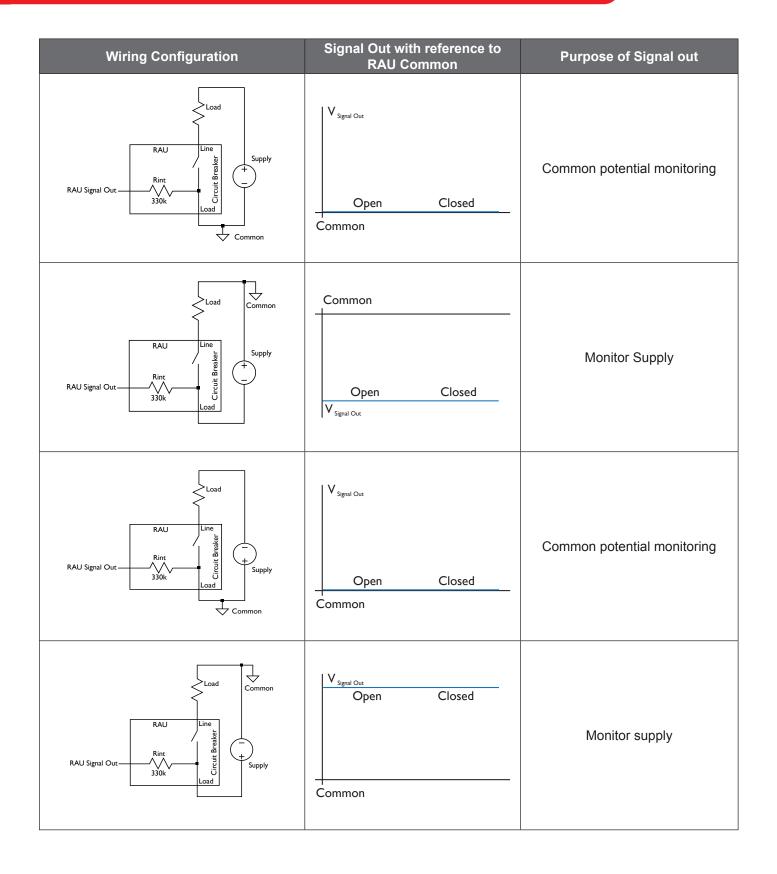
The signal out contact is connected only to the adjacent pole LOAD side and is isolated from the control.

Note that the signal out will vary depending on the type of load and will need to be taken into consideration when designing the RAU into a system.

### Table 2: Wiring Configuration







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### Actuation Signal Voltage Greater than 60 Vdc

The maximum actuation signal voltage that can be applied to the DD-Frame RAU is 60 Vdc. If the application is such that the actuation signal voltage will be larger than 60 Vdc, then an external resistor must be added in series as indicated in figure 2.

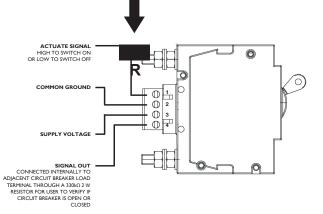
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The value of the resistor can be designed for using the following equation:

 $R = \left(\frac{V_{supply} - 60}{0.001}\right)$  with deviation of ± 20%

For example, if the actuation signal voltage will be 72 Vdc, then a 12 k $\Omega$  resistor must be added in series. See table 3.



External resistor to add in series for actuation signal voltage above

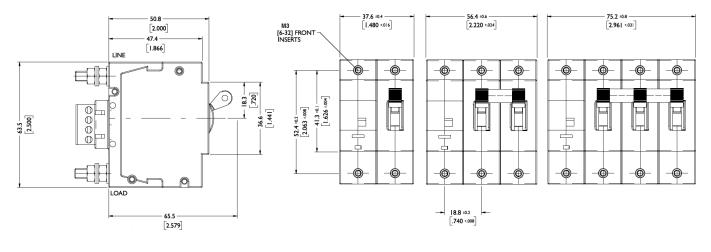
Figure 2: Side view of DD-Frame RAU indicating how to add resistor in series for actuation signal voltages above 60 Vdc

Table 3: Actuation signal voltages and corresponding resistor values to be added in series

Actuation Voltages in Volts dc	External resistor to add in series with actuate terminal (E12 series)
72	12 kΩ
80	22 kΩ

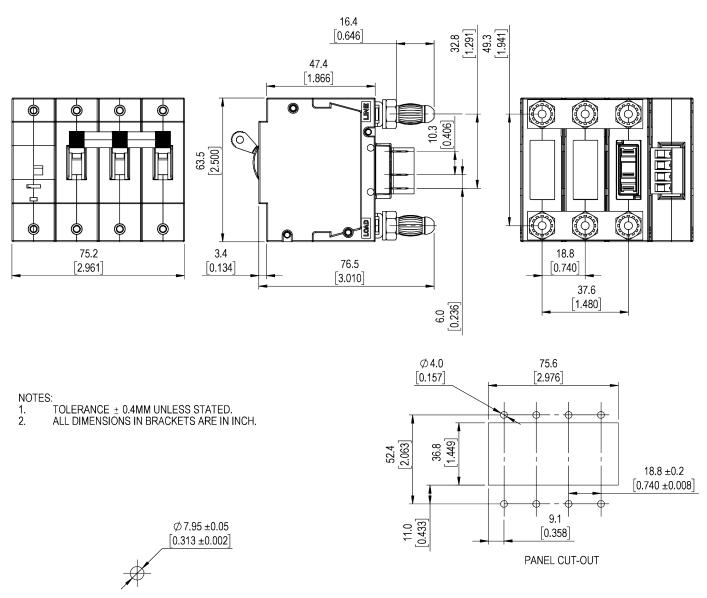
Alternatively, a voltage divider may be implemented to create a signal voltage between 5 Vdc and 60 Vdc. The minimum current required by the actuation signal input is 5 mA.

### **Dimensional Drawings**



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### **Outline Dimensions: Panel Cutout Standard Handle**



PLUG-IN MATING HOLE

PLUG IN TYPE SIZE	Α	В	С	D
PLUG IN LARGE (7.80mm DIA)	24.3 [.957]	16.4 [.646]	7.80 [.307]	7.95 [.313]

\* Other plug-in version available on special request up to 80 A

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USA

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