

SQUARE D

Instruction Bulletin

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Electrical Interlocks

Class 9999 Types R26 and R27

INTRODUCTION

This instruction bulletin illustrates and describes Class 9999 Types R26 and R27 electrical interlocks. Type R26 is a single-pole, double-throw electrical interlock. Type R27 is a double-pole, double-throw electrical interlock.



HAZARDOUS VOLTAGE.

Disconnect all power before working on equipment.

Electrical shock will cause severe injury or death.

MOUNTING FOR RIGHT-HAND CIRCUIT BREAKER OPERATION

This section contains instructions for mounting the electrical interlock for right-hand circuit breaker operation. For left-hand operation, see page 2.

To mount the interlock to a Class 9422 Type RN1 or RP1 circuit breaker mechanism (see Figure 1) or a Class 8539 Type SB, SC or SD combination starter (see Figure 2):

1. Using two 6-32 x 1/4" screws (A), install interlock on mounting plate.
2. Using two 6-32 x 1/4" screws (B), install mounting plate on operating mechanism.
3. Using two 6-32 x 1/4" screws (C), attach operator to bail arm.
4. To adjust interlock for later operation, bend finger up. For earlier operation, bend finger down.

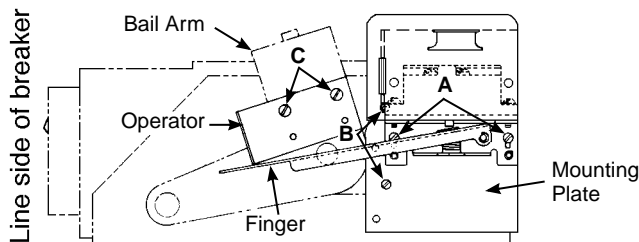


Figure 1 Mounting to Class 9422 Types RN1 and RP1 Circuit Breakers

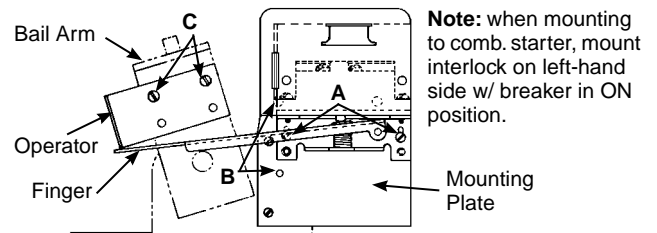


Figure 2 Mounting to Class 8539 Type SB, SC and SD Combination Starters

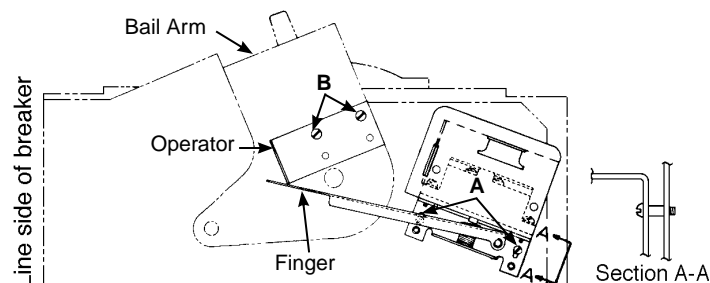


Figure 3 Mounting to Class 9422 Types RR1 and RT1 Circuit Breakers

To mount the interlock to a Class 9422 Type RR1 or RT1 circuit breaker (see Figure 3):

1. Using two 6-32 x 1/2" screws (A) and spacers, mount interlock on operating mechanism (see Section A-A).
2. Using two 6-32 x 1/4" screws (B), attach operator to bail arm.
3. To adjust interlock for later operation, bend finger up. For earlier operation, bend finger down.

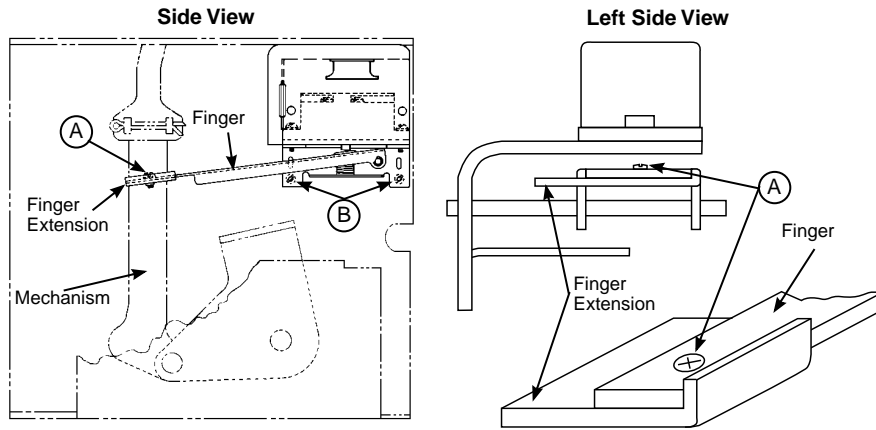


Figure 4 Mounting to a Thru-Door Operating Mechanism

To mount the interlock to a thru-door operating mechanism (refer to Figure 4):

1. Using one 6-32 x 1/4" screw (A), install finger extension to interlock operator finger.
2. Using two 6-32 x 1/4" screws (B), mount interlock to mechanism frame.
3. To adjust for later operation, bend finger up. For earlier operation, bend finger down.

MOUNTING FOR LEFT-HAND CIRCUIT BREAKER OPERATION

To convert the interlock for left-hand circuit breaker operation (refer to Figure 5):

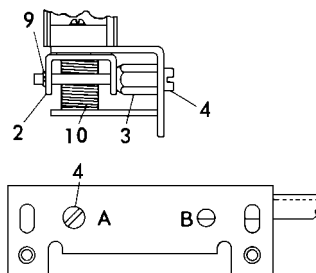


Figure 5 Converting Interlock from Left to Right Side of Mechanism

1. Remove E-ring (item 9).
2. Depress spring (item 10) and remove.
3. Slide finger (item 2) off post.
4. Disconnect and remove nut (item 3) and post (item 4) from hole A.
5. Place post in hole B. Replace nut on post.
6. Slide finger onto post. Replace E-ring.
7. Depress spring and slide into position.

After converting the electrical interlock, mount it on the RIGHT side of the circuit breaker mounting frame.

RATINGS

The AC and DC continuous ampere ratings are 15 A for the Type R26 (1-pole) and 10 A for the Type R27 (2-pole). Table 1 lists the pilot duty ratings for the Class 9999 electrical interlocks.

Table 1 Class 9999 Electrical Interlock Ratings

CLASS 9999 TYPE R26 (1-POLE)					
Volts	AC Pilot Duty (A) [1]		Volts	DC Pilot Duty (A) [2]	
	Make	Break		Single Throw	Double Throw
120	40	15	125	2.0	0.5
240	20	10	250	0.5	0.2
480	10	6	600	0.1	0.02
600	8	5			
CLASS 9999 TYPE R27 (2-POLE)					
Volts	AC Pilot Duty [1]		Volts	DC Pilot Duty (A) [2]	
	Make	Break		Single Throw	Double Throw
0-120	30 A	3 A	125	1.0	0.2
120-600	3600 VA	360 VA	250	0.3	0.1
			600	0.1	...

[1] AC pilot duty rating is based on 35% power factor.

[2] DC pilot duty rating is based on inductive loads, such as coils and solenoids.

PLEASE NOTE:

Electrical equipment should be serviced only by qualified electrical maintenance personnel, and this document should not be viewed as sufficient instruction for those who are not otherwise qualified to operate, service or maintain the equipment discussed. Although reasonable care has been taken to provide accurate and authoritative information in this document, no responsibility is assumed by Square D for any consequences arising out of the use of this material.