

Part Number Information

RYA3A	1A	12VDC	1	N	60
SERIES	CONTACT ARRANGEMENT	COIL NOMINAL VOLTAGE	TERMINAL TYPE	SPECIAL MARK	Special Ratings
RYA3A: No Bracket RYA3AP: Plastic Bracket RYA3AM: Metal Bracket	1A: 1 Form A (SPST-NO) 1C: 1 Form C (SPDT) 1A2: 1 Form A, two 87 pins (SPST-NO) 1U: 1 Form U, double make, 2NO contacts (SPST-NO)	12VDC 24VDC	1: Quick Connect PC: PCB Terminal	N: Standard type R: With Resistor D: With Diode DR: With both diode and resistor	Blank: Standard 40A version -60A: High Rated 60A version

Contact Data Standard

Contact Arrangement	1 Form A, 1 NO/1 NO (2x87)		1 Form U, 2 NO		1 form C, 1 CO		
Contact Gap							>.8mm
Rated Voltage	12 VDC	24 VDC	12VDC	24VDC	12VDC	24VDC	24VDC
Limiting Continuous Current	NO	NO	NO	NO	NO/NC	NO/NC	NO/NC
23°C	40A	40A	2x22A	2x22A	40/30A	40/30A	40/30A
85°C	28A	28A	2x16A	2x16A	28/20A	28/20A	28/20A
125°C	12A	12A	2x8A	2x8A	12/9A	12/9A	12/9A
Limiting Making Current NO/NC	80A	80A	2x65A	2x65A	80/30A	80/30A	80/30A
Limiting Breaking Current NO/NC	40A	15A	2x28A	2x10A	40/28A	15/10A	22/12A
Limiting short-time current overload current	1.35 x 40A, 1800s		1.35x40A, 1800s		1.35 x 40A, 1800s		
	2.00x40A, 5s		2.00x40A, 5s		2.00 x 40A, 5s		
	3.5 x 40A, .5s		3.50 x 40A, 0.5s		3.50 x 40A, 0.5s		
	6.00 x 40A, 0.1s		6.00x 40A, 0.1s		6.00 x 40A, 0.1s		
Jump start test	24VDC for 5min conducting nominal current at 23° C						
Contact material	AgSn02						
Min. recommended contact load ⁴⁾	1A at 5VDC						
Initial Voltage Drop							
NO contact at 10A, typ./ max	15/200mV	15/200mV	2x15/200mV	2x15/200mV	15/200mV	15/200mV	15/200mV
NC contact at 10A, typ./ max					20/250mV	20/250mV	20/250mV
Frequency of operation at nominal load	6 ops./min (0.1HZ)						
Operate/release time typ.	7/2ms ⁵⁾						
Electrical Endurance							
Resistive Load at 14 VDC	>2 x 10 ⁵ ops. 40A	-	>2 x 10 ⁵ ops. 2X25A	-	>2 x 10 ⁵ ops. 40A (NO)	-	-
Resistive Load at 28 VDC	-	>1x10 ⁵ ops. 20A	-	>1x10 ⁵ ops 2x15A	-	>1x10 ⁵ 20A(NO)	1x10 ⁵ 30A (NO) >5x10 ops. 10A (NC)
Mechanical endurance DC coil	>1x10 ⁷ ops.						

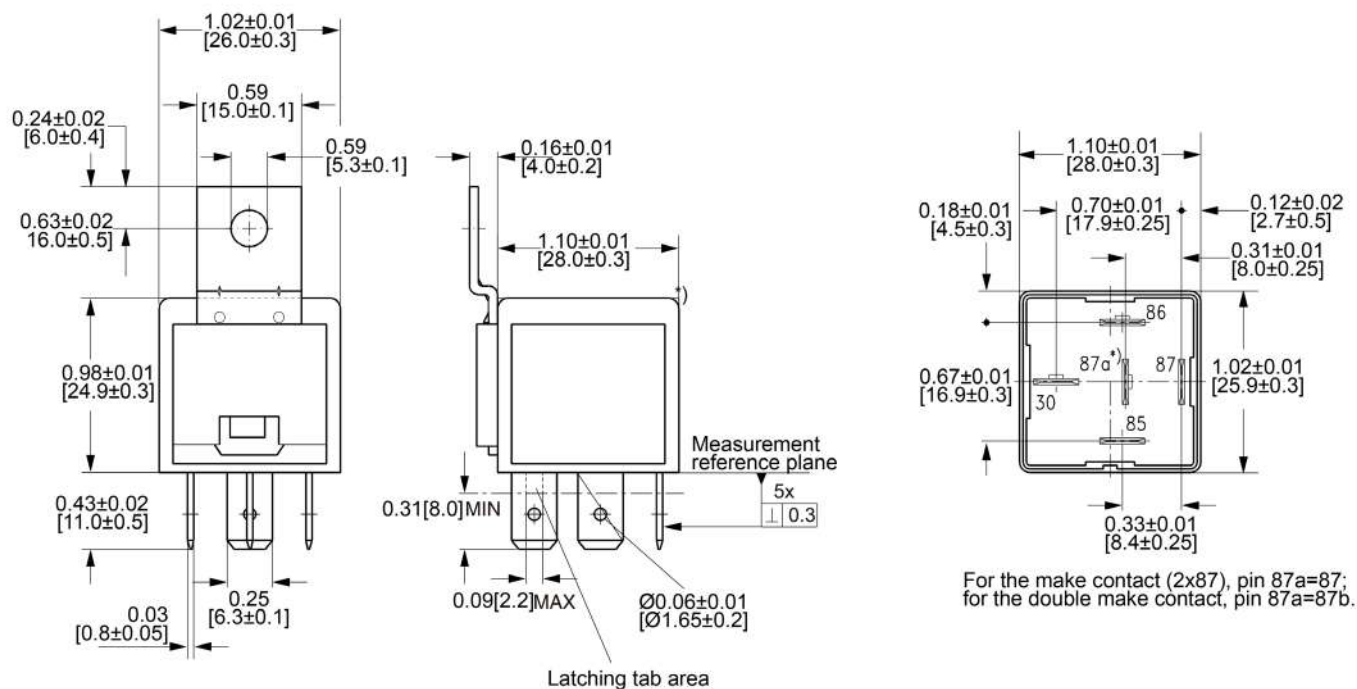
Contact Data -60A High Amperage Version

Contact Arrangement	1 Form A, 1 NO/1 NO (2x87)		1 Form U, 2 NO		1 form C, 1 CO		
Contact Gap							>.8mm
Rated Voltage	12 VDC	24 VDC	12VDC	24VDC	12VDC	24VDC	24VDC
Limiting Continuous Current	NO	NO	NO	NO	NO/NC	NO/NC	NO/NC
23°C	60A	60A	2x32A	2x32A	60/45A	60/45A	60/45A
85°C	40A	40A	2x25A	2x25A	40/30A	40/30A	40/30A
125°C	17A	17A	2x11A	2x11A	17/12A	17/12A	17/12A
Limiting Making Current NO/NC	120A	120A	2x100A	2x100A	120/45A	120/45A	120/45A
Limiting Breaking Current NO/NC	60A	20A	2x40A	2x15A	60/40A	20/15A	30/20A
Limiting short-time current overload current	1.35 x 40A, 1800s		1.35x40A, 1800s		1.35 x 40A, 1800s		
	2.00x50A, 5s		2.00x40A, 5s		2.00 x 40A, 5s		
	3.5 x 40A, .5s		3.50 x 40A, 0.5s		3.50 x 40A, 0.5s		
	6.00 x 40A, 0.1s		6.00x 40A, 0.1s		6.00 x 40A, 0.1s		
Jump start test	24VDC for 5min conducting nominal current at 23° C						
Contact material	AgSn02						
Min. recommended contact load*)	1A at 5VDC						
Initial Voltage Drop							
NO contact at 10A, typ./ max	15/200mV	15/200mV	2x15/200mV	2x15/200mV	15/200mV	15/200mV	15/200mV
NC contact at 10A, typ./ max					20/250mV	20/250mV	20/250mV
Frequency of operation at nominal load	6 ops./min (0.1HZ)						
Operate/release time typ.	7/2ms ⁵⁾						
Electrical Endurance							
Resistive Load at 14 VDC	>2 x 10 ⁵ ops. 40A	-	>2 x 10 ⁵ ops. 2X25A	-	>2 x 10 ⁵ ops. 40A (NO)	-	-
Resistive Load at 28 VDC	-	>1x10 ⁵ ops. 20A	-	>1x10 ⁵ ops 2x15A	-	>1x10 ⁵ 20A(NO)	1x10 ⁵ 30A (NO) >5x10 ops. 10A (NC)
Mechanical endurance DC coil	>1x10 ⁷ ops.						

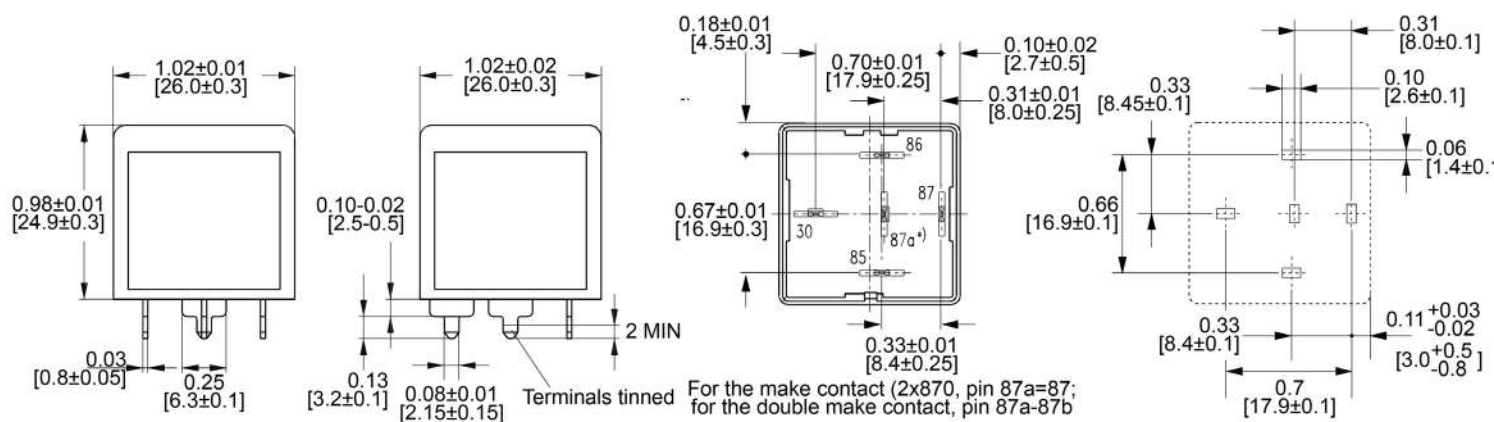
Mechanical Dimensions: Inches [mm]

Tolerances ± 0.012 [0.3] Unless Otherwise Specified

Metal Bracket version shown

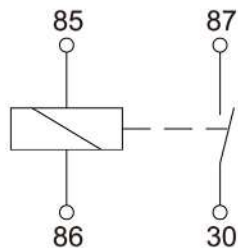


PCB Terminal version shown

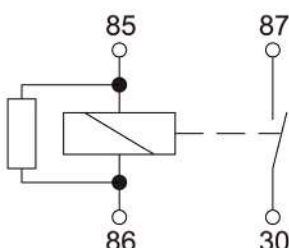


Mechanical Dimensions: Inches [mm]

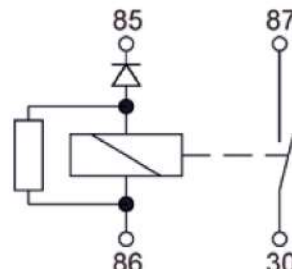
1A
1 form A, 1 NO



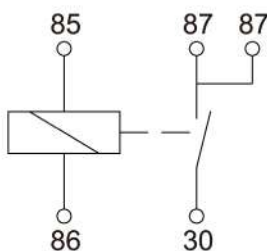
1A (with resistor)
1 form A, 1 NO
with resistor



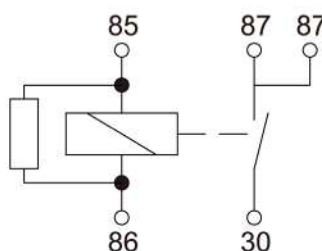
1A(with resistor and diode)
1 form A, 1 NO
with resistor & serial diode



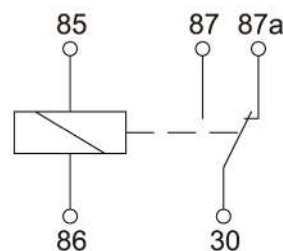
1A2
1 form A, 1 NO (2x87)



1A2 (with resistor)
1 form A, 1 NO (2x87)
with resistor

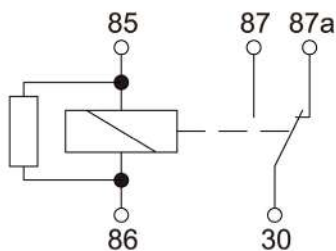


1C (with resistor)
1 form C, 1 CO



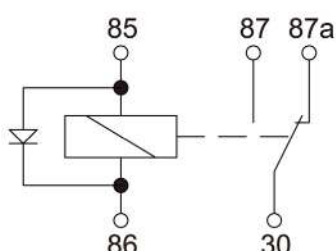
1C (with resistor)

1 form C, 1 CO
with resistor



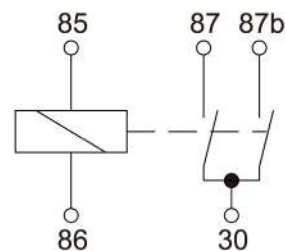
1C (with diode)

1 form C, 1 CO
with diode



1U

1 form U, 2 NO



Specifications

Jump Start Test

24VDC for 5 min conducting
nominal current at 23°C

Contact Material

AgSn02

Min. recommended
contact load

1A at 5 VDC

Frequency of Operation
at nominal load

6 ops./min (0.1Hz)

Operate/release time typ.

7/2ms⁵

Mechanical Endurance
DC Coil

>1x10⁷ ops.

Relay

RYA3A



Rev	Date of issue	Revision Notes	Designed	Approved
B	07-13-2026	Update Contact data	RC	OF