The Reduced Silver series are suitable for applications where infrequent switching is specified. In such applications the degradation of the tip is minimal and therefore a higher volume of silver is unnecessary. The RU280P is an economical alternative to the SU280P in applications where switching requirements are Uninterrupted such as with line contactors or telecommunication and power distribution systems. In such applications, contact wear is minimal and the amount of silver in the tip can be selectively reduced.

- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

RU280P

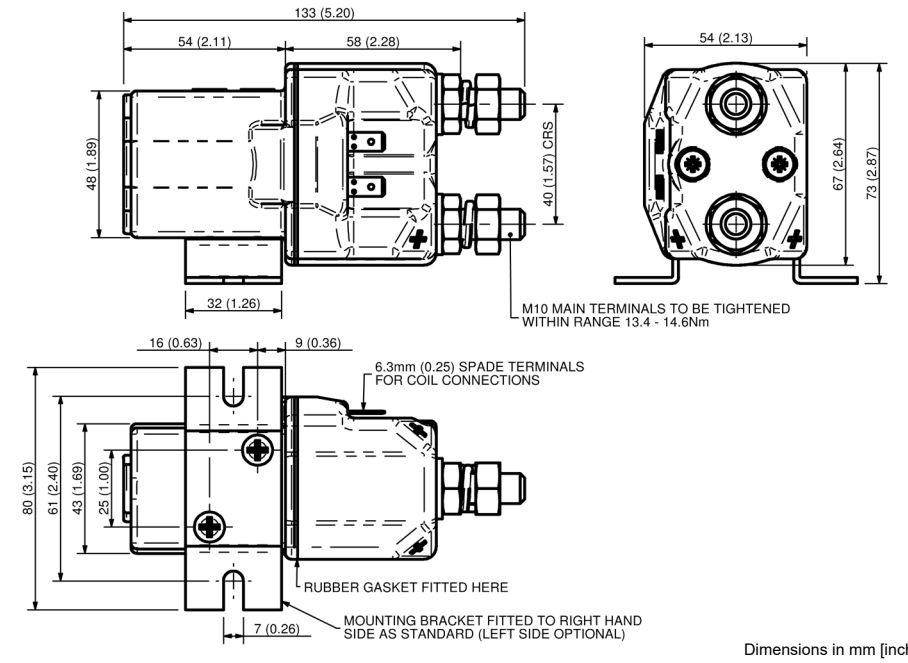
Application	Uninterrupted
Thermal Current Rating ($I^{}th$)	350A
Intermittent Current Rating:	
30% Duty	640A
40% Duty	555A
50% Duty	495A
60% Duty	450A
70% Duty	420A
Rated Fault Current Breaking Capacity ($I^{}cn$) 5ms Time Constant: *(in accordance with UL583*)*	
RU280P	1050A at 48V D.C.
RU280BP	800A at 80V D.C.
Rated Fault Current Breaking Capacity ($I^{}cn$) Resistive Load: *(in accordance with UL508*)*	
RU280P	525A at 60V D.C.
RU280BP	525A at 96V D.C.
Maximum Recommended Contact Voltages (U_e):	
RU280P	60V D.C.
RU280BP	96V D.C.
Typical Voltage Drop per pole across New Contacts at 350A	40mV
Mechanical Durability	>3 x 10^6 Cycles
Coil Voltage Available (U_s)	From 6 to 240V D.C.
Coil Power Dissipation:	
Highly Intermittent Rated Types	40 - 50 Watts
Intermittently Rated types	30 - 40 Watts
Prolonged Rated Types	15 - 30 Watts
Continuously Rated Types	10 - 15 Watts
Maximum Pull-In Voltage (Coil at 20˚ C) Guideline:	
Highly Intermittent Rated types (Max 25% Duty Cycle)	60% U_s
Intermittently Rated types (Max 70% Duty Cycle)	60% U_s
Prolonged Operation (Max 90% Duty Cycle)	60% U_s
Continuously Rated Types (100% Duty Cycle)	66% U_s
Drop-Out Voltage Range	10 - 25% U_s
Typical Pull-In Time	30ms
Typical Drop-Out Time (N/O Contacts to Open):	
Without Suppression	8ms
With Diode Suppression	60ms
With Diode and Resistor *(Subject to resistance value)*	25ms
Typical Contact Bounce Period	3ms
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
RU280P	755 gms
With Blowouts	+ 50 gms
Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	185mm² [0.287inch²]
Cable	Rated suitable for Application

Key: ◢ = *Uninterrupted*

Note: *Where applicable values shown are at 20˚C*

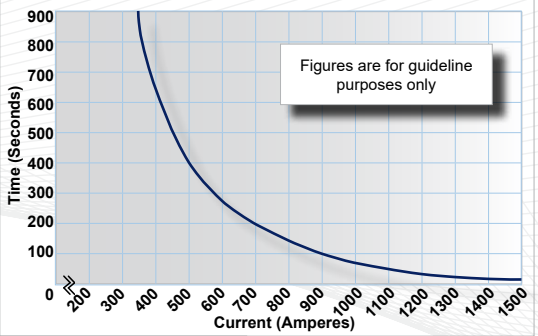
* *Please check our web site for product UL status*

The contactors have double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The RU280P offers greater environmental protection (IP66) and is easy to install, with a range of mounting brackets available. To ensure IP66, mounting holes are not accessible. Mounting can be vertical or horizontal, when vertical the M10 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.



Dimensions in mm [inches]

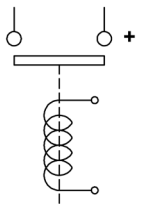
RU280P Contactor Performance



Contact Performance Key:

Uninterrupted Current

Connection Diagram



RU280P Available Options

General		Suffix
Auxiliary Contacts	X	
Auxiliary Contacts - V3	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	○	B
Armature Cap	X	
Mounting Brackets (Right side fit standard, left optional)	●	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing	●	
Environmentally Protected IP66	●	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	○	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression†	○	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	○	
M5 Terminal Board	X	
Vacuum Impregnation	X	

Key: Optional ○ Standard ● Not Available X

† *Connections become polarity sensitive*

- **Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.**
- **Thermal current ratings stated are dependant upon the size of conductor being used**
- **For further technical advice email: technical@albrightinternational.com**
- **Albright reserve the right to change data without prior notice**

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