

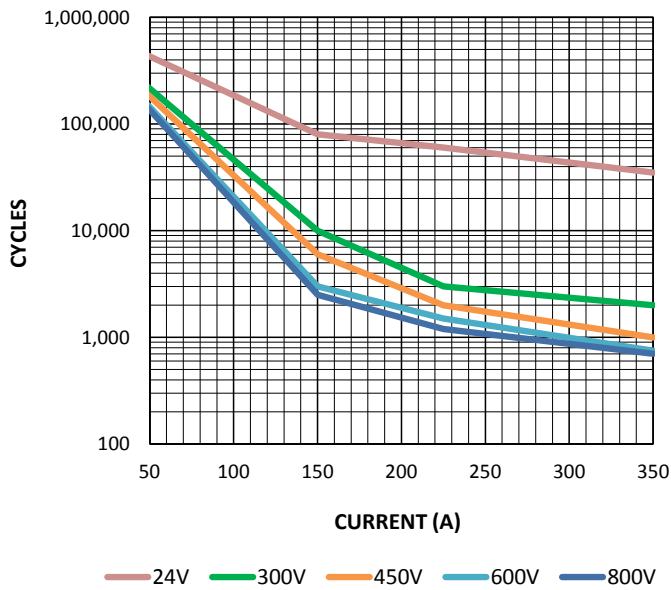
Coil Ratings at 25°C

Coil P/N Designation	P	R
Coil Voltage, Nominal (VDC)	12/24	12/24
Coil Type	External PWM ⁴	
Coil Resistance (ohms)	1.45	5
Operate Time, Max (ms) ⁵	20	
Release Time, Max (ms)	12	



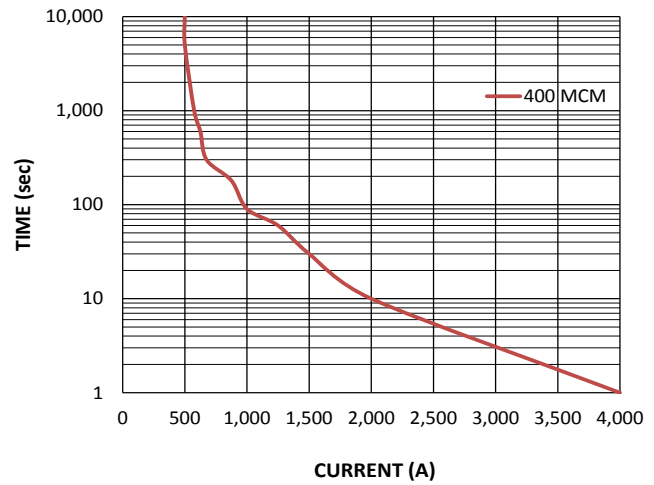
POWER SWITCHING AND CURRENT CARRY RATINGS

DC POWER SWITCHING CYCLES



CURRENT CARRY vs TIME

with 85°C terminal temperature rise

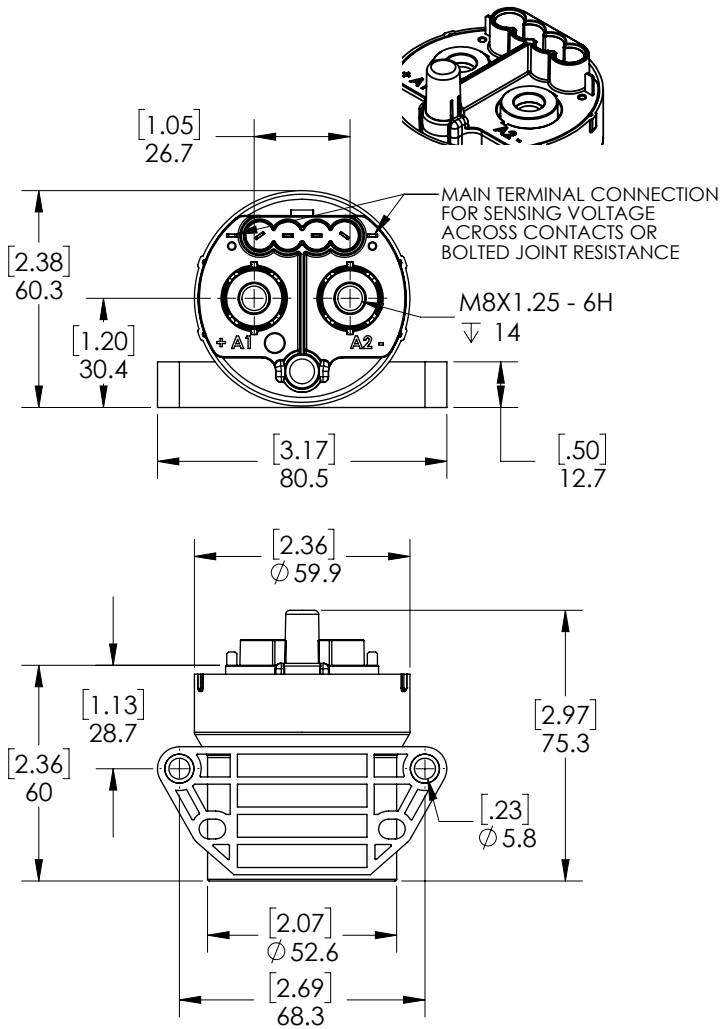




SIDE MOUNT DIMENSIONS

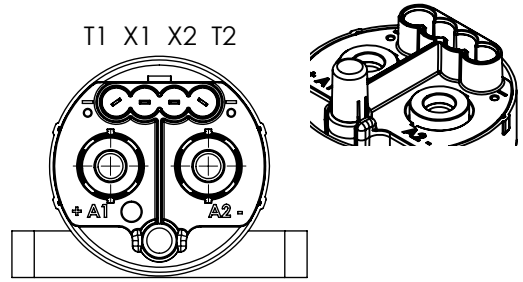
Side Mount

(Auxiliary with Main Terminal Connection for Sensing Voltage Across Contacts or Bolted Joint Resistance Shown)



Side Mount

(Auxiliary Shown)



Coil/Auxiliary Connector

Coil: Tin Plated Brass
Auxiliary: Tin Plated Beryllium Copper

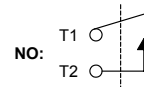
Mounting

M5 or No. 10 Screws
Torque 1.7-4 Nm [15-35 in-lb]

Power Connection

Silver Plated Copper M8x1.25 Terminals
Torque 10 Nm [90 in-lb] max

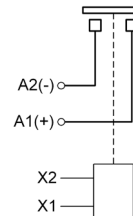
Auxiliary Contacts (Optional)



Temperature and Weight

Operating ambient Temp Range = -55 to +85°C³
Storage ambient Temp Range = -70 to +150°C
Weight, typical = 0.39 kg (0.86 lb)

Power Contacts



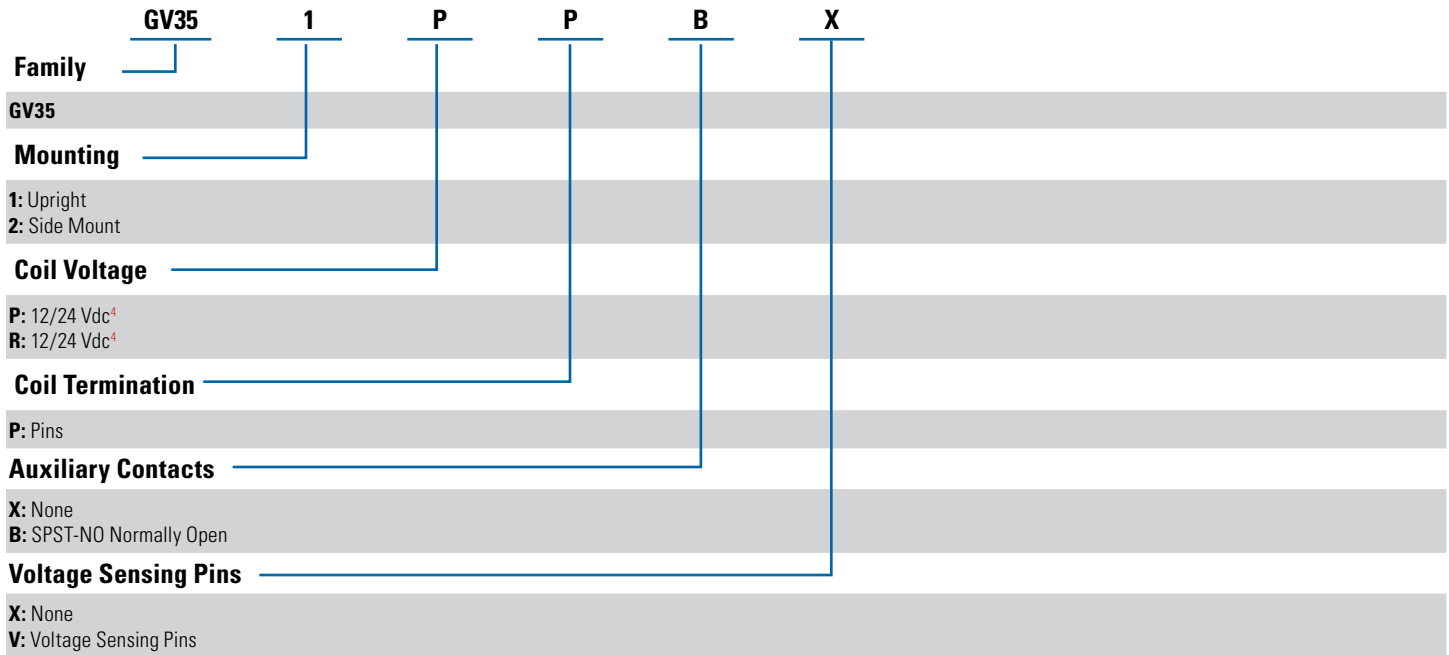
Packaging

24 units per shipping box
21 in x 18 in x 4 in shipping box



ORDERING OPTIONS

Example : GV351PPBX



GENERAL NOTES

1. Auxiliary contact rating is 2A, 24Vdc Resistive load, 100,000 cycles. Minimum current is 0.1mA, 5V. The auxiliary contact is mechanically linked to the main power contacts.
2. Insulation resistance is 50 Mohms after life.
3. Contactor can operate up to 125°C in special cases - contact Sensata for details.
4. See Application Note [AN-022](#) for PWM instructions.
5. Operation time is measured at 25°C and includes maximum 7ms bounce.
6. Rated voltage refers to max voltage for which make/break load cycles are provided. Contactor can be used in higher voltage systems. Contact Sensata for more info.



TECHNICAL NOTES

1. Power switching lifecycles are based on **current flow** from A1(+) to A2(-). For best breaking performance, the contactor should be installed so that current flows from A1(+) to A2(-). There are cases where the contactor will interrupt power in the opposite direction but please contact Sensata to confirm suitability. Direction of current flow is not relevant during make or when flowing on closed contacts. For bi-directional contactors, please contact Sensata.
2. Applications with capacitors will require a [pre-charge](#) circuit.
3. Electrical life rating is based on resistive load with 27µH maximum inductance in circuit. Because your application may be different, we suggest you test the contactor in your circuit to verify life is as required.
4. End of life is defined as when the dielectric, insulation resistance or contact resistance exceeds the specifications listed.

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