

Honeywell Sensing and Control

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3106 00040028



3106 Series Hermetic Thermostats

Actual product appearance may vary.

Features

Hermetically sealed Tight tolerances Tight differentials Logic level contacts

Potential Applications

Computers Medical electronics Pow er supplies Industrial controls Test equipment Infotech

Description

The 3106 Series consists of a single pole, single throw switch activated by a snapaction bimetal disc. Temperature calibrations are pre-set at the factory and each unit is 100% thermally and mechanically inspected. It is available to open or close on temperature rise. The case is laser welded to form a hermetically-sealed steel housing with a glass-to-metal seal at the terminal junction. It is manufactured and tested to meet or exceed critical commercial and industrial specifications. They have gold alloy contacts for low voltage applications.

Supporting Documentation

None Available

Functional PropertiesClose on riseReset TypeAutomaticAmperage100 mA/500 mAVoltage120 Vac/50 VdcOperating Temperature Range-29 °C to 204 °C [-20 °F to 400 ° F]Environmental Exposure Range-62 °C to 260 °C [-80 °F to 500 ° F]Open Temperature107.2 °C [225 °F]Close Temperature23.9 °C [75 °F]Open Tolerance6.7 °C [12 °F]Close Tolerance5.6 °C [10 °F]Dielectric StrengthMIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to CaseInsulation ResistanceMIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc appliedContact ResistanceMIL-STD-202, Method 307; 0.050 OhmHermetic SealMIL-STD-202, Method 112; Cond. 1x10-5Moisture ResistanceMIL-STD-202, Method 106Housing MaterialSteel housing hermetically sealed with glass-to-metal seal at terminal junctionContact MaterialWE -1 gold alloy cross pointMountingB214 fixed bracketSeries Name3106	Product Specifications	
Amperage 100 mA/500 mA Voltage 120 Vac/50 Vdc Operating Temperature Range Pilot to 204 °C [-20 °F to 400 °F] Environmental Exposure Range Filot to 260 °C [-80 °F to 500 °F] Open Temperature Pilot to 23.9 °C [225 °F] Close Temperature Pilot to 23.9 °C [75 °F] Open Tolerance Filot to 260 °C [-80 °F to 500 °F] Open Tolerance Filot to 260 °C [-80 °F to 500 °F] Open Tolerance Filot to 260 °C [-80 °F to 500 °F] Open Tolerance Filot to 260 °C [225 °F] Close Temperature Filot to 260 °C [12 °F] Open Tolerance Filot to 260 °C [12 °F] Open Tolerance Filot to 260 °C [12 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 260 °C [-80 °F to 400 °F] Open Tolerance Filot to 400 °F Fi	Functional Properties	Close on rise
Voltage Operating Temperature Range -29 °C to 204 °C [-20 °F to 400 °F] Environmental Exposure Range -62 °C to 260 °C [-80 °F to 500 °F] Open Temperature 107.2 °C [225 °F] Close Temperature 23.9 °C [75 °F] Open Tolerance 6.7 °C [12 °F] Close Tolerance 5.6 °C [10 °F] Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material ME -1 gold alloy cross point Mounting B214 fixed bracket	Reset Type	Automatic
Operating Temperature Range F] Environmental Exposure Range F] Close Temperature Close Temperature Close Tolerance Close Tolerance Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 307; 0.050 Mm Hermetic Seal MIL-STD-202, Method 307; 0.050 Mm MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material ME -1 gold alloy cross point Mounting B214 fixed bracket	Amperage	100 mA/500 mA
F] Environmental Exposure Range	Voltage	120 Vac/50 Vdc
F] Open Temperature 107.2 °C [225 °F] Close Temperature 23.9 °C [75 °F] Open Tolerance 6.7 °C [12 °F] Close Tolerance 5.6 °C [10 °F] Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Operating Temperature Range	_
Close Temperature 23.9 °C [75 °F] Open Tolerance 6.7 °C [12 °F] Close Tolerance 5.6 °C [10 °F] Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 307; 0.050 Moisture Resistance MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Environmental Exposure Range	-
Open Tolerance 6.7 °C [12 °F] Close Tolerance 5.6 °C [10 °F] Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 307; 0.050 Ohm Moisture Resistance MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Open Temperature	107.2 °C [225 °F]
Close Tolerance 5.6 °C [10 °F] Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Close Temperature	23.9 °C [75 °F]
Dielectric Strength MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 307; 0.050 Ohm MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Open Tolerance	6.7 °C [12 °F]
Vac 60 Hz - Terminal to Case Insulation Resistance MIL-STD-202, Method 302; Cond. B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Close Tolerance	5.6 °C [10 °F]
B - 500 MOhm - 500 Vdc applied Contact Resistance MIL-STD-202, Method 307; 0.050 Ohm Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Dielectric Strength	
Hermetic Seal MIL-STD-202, Method 112; Cond. 1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE-1 gold alloy cross point Mounting B214 fixed bracket	Insulation Resistance	
1x10-5 Moisture Resistance MIL-STD-202, Method 106 Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE-1 gold alloy cross point Mounting B214 fixed bracket	Contact Resistance	
Housing Material Steel housing hermetically sealed with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Hermetic Seal	
with glass-to-metal seal at terminal junction Contact Material WE -1 gold alloy cross point Mounting B214 fixed bracket	Moisture Resistance	MIL-STD-202, Method 106
Mounting B214 fixed bracket	Housing Material	with glass-to-metal seal at
	Contact Material	WE -1 gold alloy cross point
Series Name 3106	Mounting	B214 fixed bracket
	Series Name	3106

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