

**Table 1-3: Product type and ordering numbers of AMS Asset Monitor and compatible DeltaV hardware**

| Hardware                                     | Product type number | Ordering number |
|----------------------------------------------|---------------------|-----------------|
| AMS Asset Monitor                            | AM 5820-IM          | SE8701T01-IM    |
| AMS Asset Monitor – Marine Paint             | AM 5820-IM BL       | SE8701T01-IM2   |
| +24 V DC Power Module                        | AM 5730             | SE8701T02-IP    |
| VI Piezo CHARM                               | AM 5125             | SE8701V01-PZ    |
| VI Voltage CHARM                             | AM 5620             | SE8701V02-VT    |
| VI Tach CHARM                                | AM 5312             | SE8701V03-TH    |
| RTD CHARM                                    | KL3031X1-BA1        | SE4303T03       |
| Thermocouple/mV input CHARM                  | KL3032X1-BA1        | SE4303T02       |
| AI 4 to 20 mA CHARM                          | KL3021X1-BA1        | SE4303T01       |
| DI 24 V DC Low-Side Sens (dry contact) CHARM | KL3003X1-BA1        | SE4301T02       |
| DO 24 V DC High-Side CHARM                   | KL3002X1-BA1        | SE4302T01       |
| Standard Terminal Block                      | KL4502X1-BA1        | SE4501          |
| Thermocouple/mV Terminal Block               | KL4502X1-NA1        | SE4504          |
| Relay Output Terminal Block                  | KL4502X1-MA1        | SE4503          |
| Address Terminal Screw Block                 | KL4502X1-DA1        | KL4502X1-DA1    |
| Address Terminal Plug #1                     | KL4501X1-BA1        | KL4501X1-BA1    |
| Channel Identifier Label\Wiring Cover        | ---                 | SE4606T04       |

## 1.2 Symbols

### Note

This symbol marks passages that contain important information.

### ⚠ CAUTION

This symbol marks operations that can lead to malfunctions, faulty measurements, or data loss, but will not damage the device.

### ⚠ DANGER

A danger indicates actions that can lead to property damage or personal injury.

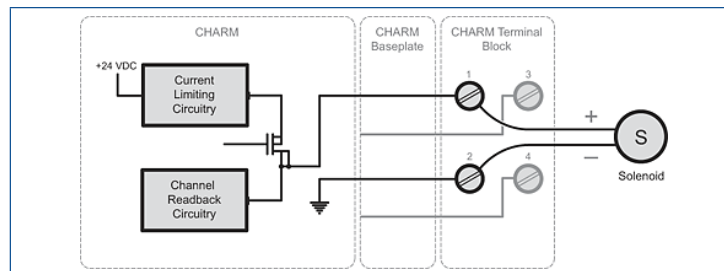
|                                                                                     |                                                                                              |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|  | According to IEC 61010, this symbol means that this device must be operated with DC voltage. |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

## DeltaV Electronic Marshalling

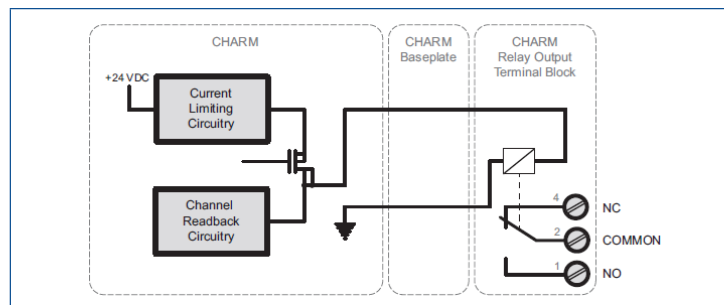
August 2026

### Discrete Output 24V DC High-Side CHARM

| Specifications for DO 24V DC High-Side CHARM |                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Type                                  | 24V DC Solenoid coils                                                                                                                                                                                                                                                                     |
| On State Output Rating                       | 100 mA continuous @ 24V DC                                                                                                                                                                                                                                                                |
| Off State Leakage Current                    | 1 mA maximum                                                                                                                                                                                                                                                                              |
| Line Fault Detection                         | <ul style="list-style-type: none"> <li>Guaranteed short circuit: <math>&lt;50\ \Omega</math> load</li> <li>Guaranteed good status: <math>240\ \Omega</math> to <math>10\ \text{k}\Omega</math> load</li> <li>Guaranteed open circuit: <math>&gt;20\ \text{k}\Omega</math> load</li> </ul> |
| Configurable Output Behavior                 | <ul style="list-style-type: none"> <li>Momentary Output</li> <li>Continuous Pulse Output</li> <li>Line fault testing</li> </ul>                                                                                                                                                           |
| Line Fault Test Timing                       | 200 $\mu\text{sec}$                                                                                                                                                                                                                                                                       |
| Field Circuit Protection                     | <ul style="list-style-type: none"> <li>200 mA Current Limiting Circuit</li> <li>Field wiring disconnect</li> </ul>                                                                                                                                                                        |
| CHARM Power Req.                             | 116 mA max @ 24 V DC - Standard Terminal Block<br>24 mA max @ 24 V DC - Relay Output Terminal Block                                                                                                                                                                                       |
| CHARM Heat Dissipation                       | 0.44 W - Standard Terminal Block<br>0.61 W - Relay Output Terminal Block                                                                                                                                                                                                                  |



Simplified Circuit and Connection Diagram for DO 24V DC High Side CHARM.



Simplified Circuit and Connection Diagram for DO 24V DC High Side CHARM with CHARM Relay Output Terminal Block.



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PRODUCT: KL3002X1-BA1 / DeltaV 24 VDC High-Side Discrete Output CHARM

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