

# **SHERWOOD-LOGAN & ASSOCIATES, INC.**

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## **32384 CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS**

### **RVSS CONTROL PANELS SUBMITTAL**

### **SECTION 17441 - CONTROLS SYSTEM HARDWARE**

**January 06, 2026**

**ENGINEER: WRA**

**CONTRACTOR: JOHNSTON CONSTRUCTION**

***MANUFACTURERS' REPRESENTATIVE FOR ENGINEERED INSTRUMENTATION,  
PROCESS EQUIPMENT AND PUMPING SYSTEMS***

*Branch Offices: RICHMOND, VA and LEOLA, PA*

**32384 CHARLES COUNTY POMONKEY PUMP STATION  
IMPROVEMENTS**

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**32384 CHARLES COUNTY POMONKEY PUMP STATION  
IMPROVEMENTS**

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SHT	MANUFACTURER	MODEL	DESCRIPTION
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**32384 CHARLES COUNTY POMONKEY PUMP STATION  
IMPROVEMENTS**

**Data Sheet 1**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
<u>Qty</u>	<u>Description</u>
1	<p>Mfg: SCE: Wall Mount Enclosure - NEMA 4X Model Number: SCE-36XEL3112SS6LP</p> <p>Tags/Service: ENC / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 0.075" stainless steel type 304</li> <li>• Continuously welded seams ground smooth</li> <li>• Stainless steel concealed hinges</li> <li>• Pour in place oil and water resistant gasket</li> <li>• Ground studs on door and body</li> <li>• Flange trough collar around all sides of door opening</li> </ul>
1	<p>Mfg: SCE: Enclosure Backpanel Model Number: SCE-36P30</p> <p>Tags/Service: ENC / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Subpanel, bent</li> <li>• Powder coated white finish</li> <li>• 33"H x 27"W x 0.88"D</li> </ul>

1	<p>Mfg: SCE: Wall Mount Foot Kit Model Number: SCE-ELMFK4</p> <p>Tags/Service: ENC / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• Made with chemical and corrosion resistant polyamide material</li><li>• Rated for NEMA 4X</li><li>• Stainless steel bolt and zinc nuts to maintain NEMA 4X enclosure rating</li></ul>
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Saginaw Control and Engineering  
95 Midland Road Saginaw, MI 48638-5770  
(800) 234-6871 - Fax: (989) 799-4524  
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## WALL MOUNT ENCLOSURE - NEMA 4X

# SCE-36XEL3112SSLP

TAGS: ENC



### Construction

- ✿ 0.075 In. stainless steel Type 304.
- ✿ Seams continuously welded and ground smooth.
- ✿ Flange trough collar around all sides of door opening.
- ✿ Pour in place oil & water resistant gasket.
- ✿ Collar studs 3/8-16 provided for mounting optional panels.
- ✿ Holes provided in body for mounting disconnect operating handle and operating mechanism.
- ✿ Stainless steel concealed hinges.
- ✿ Doors are interchangeable and easily removed by pulling hinge pin.
- ✿ 3-point latching mechanism when door height is greater or equal to 40 inches, 2-point latching mechanism when door height is less than 40 inches.
- ✿ Latches are opened or closed with screwdriver (optional tamper-resistant inserts available).
- ✿ Mounting holes in back of enclosure.
- ✿ Mounting hardware, sealing washer and hole plug included.
- ✿ Ground studs on door and body.
- ✿ Black zinc die cast coinproof/padlocking handle.
- ✿ Removable print pocket.

### Application

Designed to house electrical and electronic controls, instruments and components in areas which may be regularly hosed down or are in very wet conditions. Designed to house most standard type disconnects. Provides protection from dust, dirt, oil, and water. For outdoor application a drip shield and drain vent is recommended.

For details about the design, performance expectations, applications and design suggestions - See Design Considerations  
[www.saginawcontrol.com/instman/considerations.pdf](http://www.saginawcontrol.com/instman/considerations.pdf)

### Finish

#4 brushed finish on all exterior surfaces. Optional sub-panels are powder coated white.

### Industry Standards - (IS6)

- ✿ NEMA Type 3R, 4, 4X, 12 and Type 13
- ✿ UL Listed Type 3R, 4, 4X and 12
- ✿ CSA Type 4, 4X and 12
- ✿ IEC 60529
- ✿ IP 66

### Notes

Disconnect switch (or circuit breaker) and operating mechanism are not furnished with this enclosure.

Special Instructions apply for IS3, IS4 and IS6 to maintain the environmental rating of Type 3R for these parts. Instructions are located on the enclosure door. Drip shield is required on IS3, drip shield is recommended on IS4 and IS6. Drain holes are required on all.

Provision for Lifting Lugs on enclosures when Height >48" and Depth >16". The Lifting Lug assembly will be included with the enclosure bolt pack.

## Product Specifications:

**Part Number:** SCE-36XEL3112SSLP

**Description:** S.S. XEL Enclosure

**Height:** 36.00"

**Width:** 31.38"

**Depth:** 12.00"

**Price Code:** S5

**List Price:** \$2,281.04

**Catalog Page:** 274

**Est. Ship Weight:** 84.00 lbs

### Accessories Included

SCE-ELMF4 Foot Kit, EL Mounting (4pc.)

### Optional Accessories

SCE-36P30 Subpanel, Bent

SCE-36P30GALV Subpanel, Bent Galvanized

SCE-BVK Breather Vent

SCE-DF36EL30LP Panel, Dead Front (Wall Mount)

SCE-DS30SS Shield, S.S. Drip

SCE-ELMF4SS6-OS Foot Kit, S.S. EL Mounting (4pc.)

SCE-ELSP3 KIT, Swing-Out Panel (20 High & Up)

SCE-RD36XEL3112SS Door, Replacement

### Similar Part Numbers

SCE-24XEL2108SSLPS.S. XEL Enclosure

SCE-24XEL2508SSLPS.S. XEL Enclosure

SCE-24XEL2510SSLPS.S. XEL Enclosure

SCE-30XEL2508SSLPS.S. XEL Enclosure

SCE-30XEL2510SSLPS.S. XEL Enclosure

SCE-36XEL2508SSLPS.S. XEL Enclosure

SCE-36XEL3110SSLPS.S. XEL Enclosure

SCE-42XEL3110SSLPS.S. XEL Enclosure

SCE-42XEL3112SSLPS.S. XEL Enclosure

SCE-42XEL3712SSLPS.S. XEL Enclosure

### Installation Information

- ✿ ABB Flange Mounted, Disconnects and Circuit Breakers
- ✿ Allen-Bradley Flange Mounted, Disconnects and Circuit Breakers
- ✿ Bussmann Flange Mounted, Disconnects and Circuit Breakers
- ✿ Cutler-Hammer Flange Mounted, Disconnects and Circuit Breakers
- ✿ GE Flange Mounted, Disconnects and Circuit Breakers
- ✿ Gould Flange Mounted, Disconnects and Circuit Breakers
- ✿ Moller Flange Mounted, Disconnects and Circuit Breakers
- ✿ Siemens Flange Mounted, Disconnects and Circuit Breakers
- ✿ Square D Flange Mounted, Disconnects and Circuit Breakers
- ✿ Mounting Foot Kit for Enviroline Enclosures
- ✿ Drip Shield Kit Assembly
- ✿ Swing Panel Assembly for Enviroline Enclosures
- ✿ Swing Panel ELSP3 for Encl. Height > 16
- ✿ Sealing Washer Specifications
- ✿ LS Electric Flange Mounted Disconnects
- ✿ Enviroline Series Single Door Enclosures For Flange Mounted Disconnects
- ✿ Dead Front Wall Mount Installation Instructions. XEL-LP REV. 2

**ENCLOSURE BACKPANEL**

Saginaw Control and Engineering  
95 Midland Road Saginaw, MI 48638-5770  
(800) 234-6871 - Fax: (989) 799-4524  
SCE@SaginawControl.com

**SCE-36P30****TAGS: ENC****Product Specifications:****Part Number:** SCE-36P30**Description:** Subpanel, Bent**Height:** 33.00"**Width:** 27.00"**Depth:** 0.88"**Price Code:** P3**List Price:** \$125.09**Catalog Page:** 444**Est. Ship Weight:** 34.00 lbs**Finish**

Powder Coated White.

**Industry Standards - (IS17)**

- ✿ NEMA Not Applicable
- ✿ UL Not Applicable
- ✿ CSA N/A

**Similar Part Numbers**

- SCE-24P20Subpanel, Bent
- SCE-24P24Subpanel, Bent
- SCE-24P24PCSubpanel, Flat
- SCE-30P20Subpanel, Bent
- SCE-30P24Subpanel, Bent
- SCE-30P30Subpanel, Bent
- SCE-36P24Subpanel, Bent
- SCE-36P36Subpanel, Bent
- SCE-40P24Subpanel, Bent
- SCE-42P24Subpanel, Bent

**Installation Information**

- ✿ Sub-Plate Layout & Grounding for 10-32



## WALL MOUNT FOOT KIT

Saginaw Control and Engineering  
95 Midland Road Saginaw, MI 48638-5770  
(800) 234-6871 - Fax: (989) 799-4524  
SCE@SaginawControl.com

## SCE-ELMFK4 TAGS: ENC



### Application

Made for use with all SCE Enviroline enclosures and two-door wall-mount enclosures. Chemical and Corrosion resistant Polyamide material rated for type 3, 3R, 4, 4X and 12. Available in kits of four, six, 25 and 50. Product comes with stainless steel bolt and zinc nuts to maintain type 3, 3R, 4, 4X and 12 rating of your enclosure.

### Industry Standards - (IS17)

- ✿ NEMA Not Applicable
- ✿ UL Not Applicable
- ✿ CSA N/A

## Product Specifications:

**Part Number:** SCE-ELMFK4  
**Description:** Foot Kit, EL Mounting (4pc.)  
**Height:** 5.00"  
**Width:** 3.00"  
**Depth:** 1.25"  
**Price Code:** P2  
**List Price:** \$21.86  
**Catalog Page:** 437  
**Est. Ship Weight:** 2.00 lbs

### Similar Part Numbers

SCE-ELMFK4-25Foot Kit, EL Mounting (4pc.) - Bulk  
 SCE-ELMFK4-50Kit, EL Mounting Foot - Bulk  
 SCE-ELMFK6Foot Kit, EL Mounting (6pc.)

### Installation Information

- ✿ Mounting Foot Kit for Enviroline Enclosures
- ✿ Mounting Foot Kit for WFLP Enclosures

## Data Sheet 2

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Square D: Flange Mounted Disconnect Handle - NEMA 4X Model Number: 9422A2</p> <p>Tags/Service: DISC / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• Flange mounted disconnect handle</li><li>• 6 in. handle mechanism</li><li>• Variable depth disconnect switch</li><li>• For NEMA 4X enclosure, NEMA 4X rated</li></ul>
1	<p>Mfg: Square D: Cable Operated Disconnect Mechanism Model Number: 9422CSB30</p> <p>Tags/Service: DISC / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• Single cable operating mechanism</li><li>• For PowerPact B 3 circuit breakers</li><li>• 36" cable length</li></ul>

# Product data sheet

## FLANGE MOUNTED DISCONNECT HANDLE

Specifications

SQUARE D



### TAGS: DISC

Operating mechanism, flange mounted, variable depth, handle mechanism, 6in handle, NEMA 4X enclosure

9422A2

Product availability: Stock - Normally stocked in distribution facility

### Main

Product	Handle Mechanism
For Use With	Disconnect switches (30...200 A)

### Complementary

Product Type	Variable depth
Product destination	disconnect switches (30...200 A)
Enclosure Types	NEMA 4/4X enclosures
Handle Length	6 in (152.4 mm)

### Ordering and shipping details

Category	US10CP121732
Discount Schedule	0CP1
GTIN	785901739807
Returnability	Yes
Country of origin	MX

### Packing Units

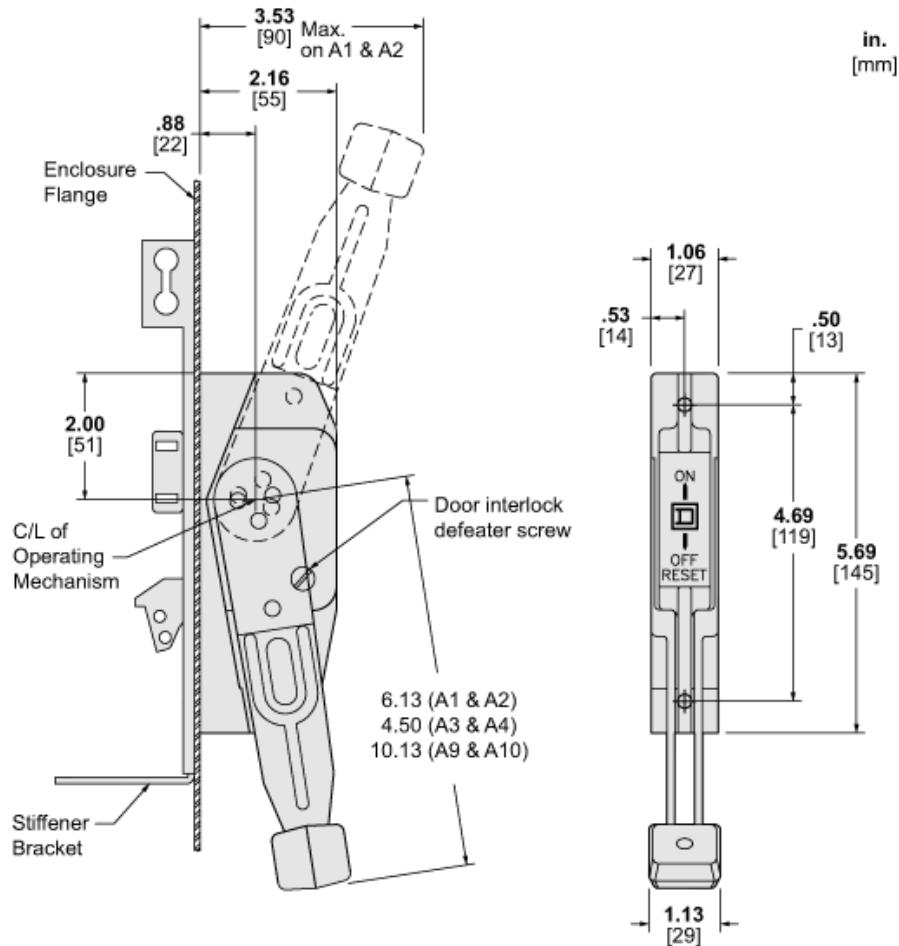
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.800 in (4.572 cm)
Package 1 Width	3.800 in (9.652 cm)
Package 1 Length	9.500 in (24.130 cm)
Package weight(Lbs)	2.749 lb(US) (1.247 kg)

### Contractual warranty

Warranty (in months)	18
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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Dimensions Drawings

Approximate Dimensions

# Product data sheet

## CABLE OPERATED DISCONNECT MECHANISM

Specifications

TAGS: DISC

SQUARE D



Disconnect mechanism, circuit breaker, cable operated, 125A, 3 pole, PowerPact B breaker, 36 inch cable

9422CSB30

Product availability: Stock - Normally stocked in distribution facility

### Main

Range 9422C

Product Single Cable Operating Mechanism

### Complementary

Circuit Breaker Type  
 PowerPact B 2  
 PowerPact B 3

Number of Cables 1

Cable Length 36 in

### Ordering and shipping details

Category US10CP121732

Discount Schedule 0CP1

GTIN 785901093503

Returnability Yes

Country of origin MX

### Packing Units

Unit Type of Package 1 PCE

Nbr. of units in pkg. 1

Package 1 Height 7.000 in (17.780 cm)

Package 1 Width 12.600 in (32.004 cm)

Package 1 Length 13.300 in (33.782 cm)

Package weight(Lbs) 5.370 lb(US) (2.436 kg)

### Contractual warranty

Warranty (in months) 18

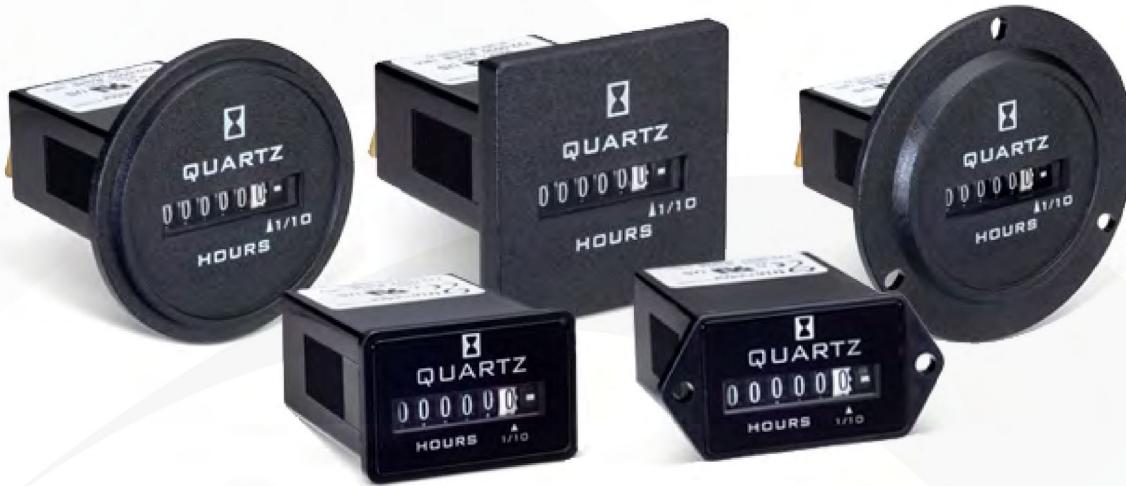
Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

### Data Sheet 3

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Trumeter: Elapsed Time Meter Model Number: 722-0001</p> <p>Tags/Service: ETM / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 120VAC 50/60Hz operating voltage</li> <li>• 6 Figure display, 99999.9</li> <li>• 0.14" figure height</li> <li>• Hours and indicator - white on black, Decimal - black on white</li> <li>• Quartz accuracy</li> <li>• Non-reset</li> <li>• Black polymer case material</li> <li>• Polymer lens material</li> <li>• ± 0.02% accuracy over entire range</li> </ul>
1	<p>Mfg: Trumeter: Gasket, Rectangular, 2-Hole Model Number: 5003-010</p> <p>Tags/Service: ETM / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• NEMA 4X rated</li> <li>• For Trumeter 722-0001 elapsed time meter</li> <li>• 2-hole rectangular gasket</li> </ul>

# 722 Series

## Electromechanical Hour Meter



The Model 722 provides an AC Hour Meter with an operating range of 90-264VAC 50/60 Hz. You no longer require two separate meters, one for 115VAC and one for 230VAC. Models are available in the standard industry housings, 2-Hole Rectangular, Flush-Rectangular, Flush-Round, Square and 3-Hole Round. Its quartz time base insures accurate long-term time keeping. The totally sealed case protects against the environment and provides years of reliable service. All models are NEMA 4X,12 rated when mounted with optional gasket.

### Key Features

- Operating voltage 90-264VAC 50/60Hz
- Totally Sealed
- UL/cUL Recognized, CE & RoHS Compliant
- 6 Figure, 99999.9
- Quartz accuracy
- Options include:
  - ~~Wire leads~~
  - Gasket kit (for NEMA 4X, 12 rating)
  - ~~Custom lens~~
  - ~~Terminals up, down, straight~~

### Applications

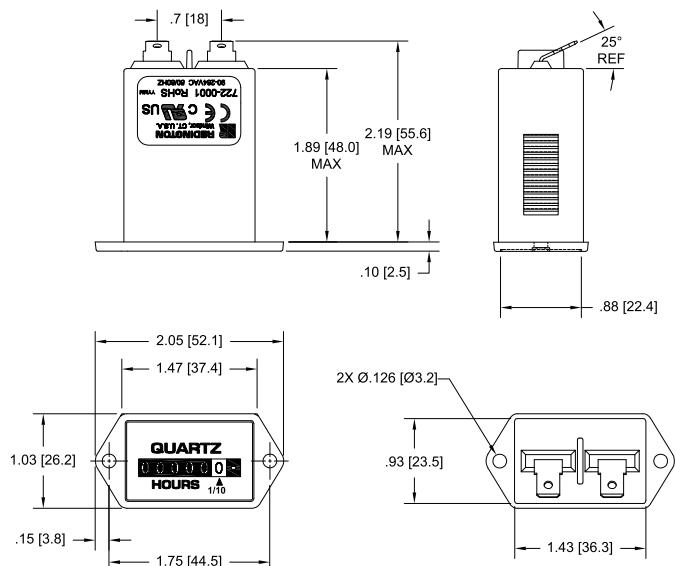
- ~~Medical Equipment~~
- Control Panels
- ~~Office Equipment~~
- ~~Test Equipment~~
- Generators

## Specification

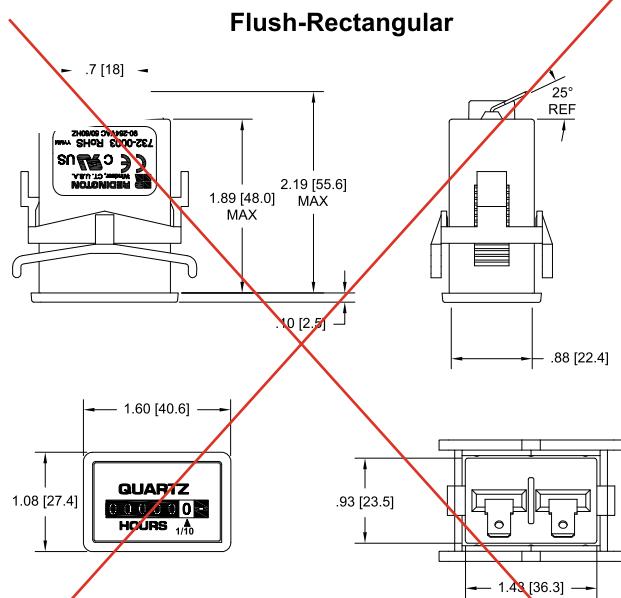
<b>Figures</b>	6 - digits, 0.14" [3.6mm] 99999.9 Hours and indicator - white on black Decimal - black on white
<b>Reset</b>	Non-reset
<b>Voltage</b>	90-264VAC
<b>Frequency</b>	50/60Hz
<b>Power</b>	1 watt max.
<b>Mount</b>	Clip or mounting holes
<b>Terminations</b>	1/4" [6.3mm] spade terminals
<b>Weight</b>	~2 oz [57 g]
<b>Accuracy</b>	± 0.02% over entire range
<b>Case Material</b>	Black polymer
<b>Lens Material</b>	Polymer
<b>Approvals</b>	UL/cUL Recognized, CE, UKCA & RoHS Compliant, SAE & NEMA 4X, 12 Compliant
<b>Environmental</b>	Totally Sealed
<b>Front Panel</b>	NEMA 4X, 12 rated with optional gasket
<b>Temp. Range</b>	-40°F to +185°F [-40°C to + 85°C]
<b>Humidity</b>	95% (SAE J1378)
<b>Vibration</b>	10-80 Hz. 20g max. (SAE J1378)
<b>Shock</b>	55g @ 9 - 13msec (SAE J1378)

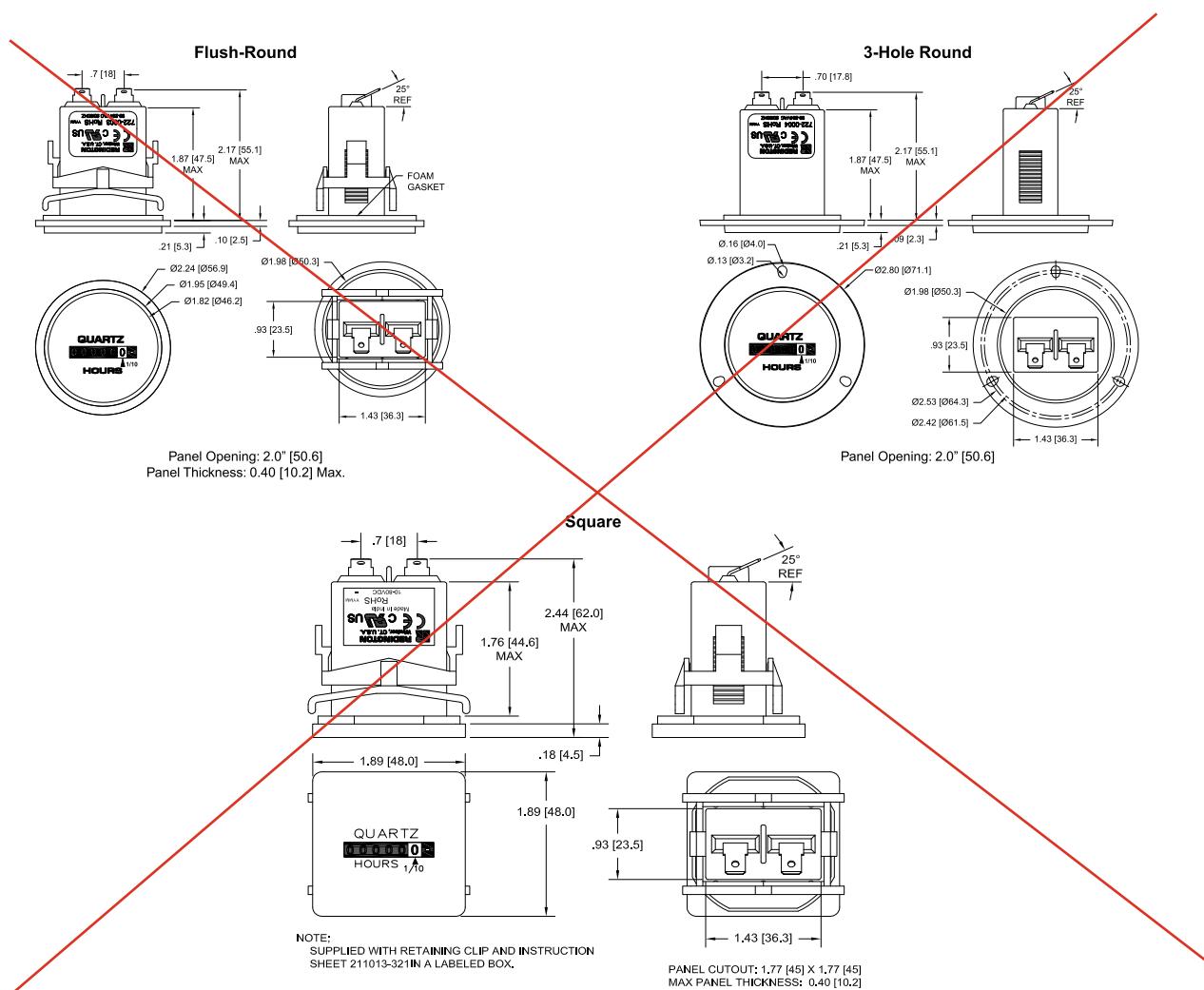
## Dimensions

**2-Hole**



**Flush-Rectangular**





## Part Numbers

- 722-0001** 2-Hole Rectangular, 90-264VAC 50/60Hz,  $\frac{1}{4}$ " [6.3mm] spade terminals, hours & 1/10's
- 722-0002** ~~Flush-Rectangular, 90-264VAC 50/60Hz,  $\frac{1}{4}$ " [6.3mm] spade terminals, hours & 1/10's~~
- 722-0003** ~~Flush Round, 90-264VAC 50/60Hz,  $\frac{1}{4}$ " [6.3mm] spade terminals, hours & 1/10's~~
- 722-0004** ~~3-Hole Round, 90-264VAC 50/60Hz,  $\frac{1}{4}$ " [6.3mm] spade terminals, hours & 1/10's~~
- 722-0030** ~~Square 1.9", 90-264VAC 50/60Hz,  $\frac{1}{4}$ " [6.3mm] spade terminals, hours & 1/10's~~
- 5003-010** NEMA 4X, 12 Gasket for Model 722-0001
- 5003-009** ~~NEMA 4X, 12 Gasket for Model 722-0002~~
- 5003-008** ~~NEMA 4X, 12 Gasket for Model 722-0003~~
- 5003-011** ~~NEMA 4X, 12 Gasket for Model 722-0004~~

**Custom**  
*is our passion*



**Data Sheet 4**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Green  Model Number: 9001SKT38LGG31</p> <p>Tags/Service:  LT0330 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Push-to-test pilot light</li> <li>• Spring return operator type</li> <li>• Green projecting, unmarked operator profile</li> <li>• Plastic bezel material</li> <li>• 120VAC rated supply voltage</li> <li>• 0.55A rated operational current</li> <li>• 1 C/O contact</li> <li>• Silver alloy contact material</li> <li>• 60kA rated short-circuit making capacity</li> <li>• 6kA rated breaking capacity</li> <li>• Green fresnel polycarbonate lens</li> </ul>
1	<p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Red  Model Number: 9001SKT38LRR31</p> <p>Tags/Service:  LT0335 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Push-to-test pilot light</li> <li>• Spring return operator type</li> </ul>

	<ul style="list-style-type: none"> <li>• Red projecting, unmarked operator profile</li> <li>• Plastic bezel material</li> <li>• 120VAC rated supply voltage</li> <li>• 0.55A rated operational current</li> <li>• 1 C/O contact</li> <li>• Silver alloy contact material</li> <li>• 60kA rated short-circuit making capacity</li> <li>• 6kA rated breaking capacity</li> <li>• Red fresnel polycarbonate lens</li> </ul>
3	<p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Amber Model Number: 9001SKT38LYA31</p> <p>Tags/Service: LT0402, LT0406, LT0409 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Push-to-test pilot light</li> <li>• Spring return operator type</li> <li>• Amber projecting, unmarked operator profile</li> <li>• Plastic bezel material</li> <li>• 120VAC rated supply voltage</li> <li>• 0.55A rated operational current</li> <li>• 1 C/O contact</li> <li>• Silver alloy contact material</li> <li>• 60kA rated short-circuit making capacity</li> <li>• 6kA rated breaking capacity</li> <li>• Amber fresnel polycarbonate lens</li> </ul>

# Product data sheet

PTT LIGHT, 120VAC LED, GREEN

Specifications

TAGS: LT0330



Push-to-test pilot light, Harmony  
9001SK, plastic, polycarbonate,  
fresnel lens, green, 30mm, LED  
green, 120V

9001SKT38LGG31

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony 9001SK
Product or Component Type	Push-to-test pilot light
Device short name	9001SK
Type of operator	spring return
Operator profile	Green projecting, unmarked

## Complementary

Bezel material	Plastic
Mounting diameter	1.2 in (30 mm)
Shape of signaling unit head	Octagonal
Light source	LED
Light source	LED
Bulb base	BA 9s
Light block supply	Direct
[Us] rated supply voltage	120 V AC/DC
[Us] rated supply voltage	120 V AC/DC
Contacts type and composition	1 C/O
Connections - terminals	Screw clamp terminals 1 x 0.22...2 x 1.5 mm <sup>2</sup> IEC 60947-1
Tightening torque	7.08 lbf.in (0.8 N.m) IEC 60947-1
shape of screw head	Cross slotted
Mechanical durability	5000000 cycles
Operating position	Any position
[Ie] rated operational current	0.55 A 125 V, DC-13, A600-Q600 NEMA
[Ui] rated insulation voltage	250 V 3)IEC 60947-1
[Uimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
Contacts material	Silver alloy contacts
Positive opening	Without
Short-circuit protection	10 A cartridge fuse IEC 60947-5-1
[Ith] conventional free air thermal current	10 A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

[Icm] rated short-circuit making capacity	<del>12 KA 600 V AC-15, 7200 VA</del> <del>15 KA 480 V AC-15, 7200 VA</del> <del>30 KA 240 V AC-15, 7200 VA</del> 60 KA 120 V AC-15, 7200 VA
Rated breaking capacity	<del>1.2 KA 600 V AC-15, 720 VA</del> <del>1.5 KA 480 V AC-15, 720 VA</del> <del>3 KA 240 V AC-15, 720 VA</del> 6 kA 120 V AC-15, 720 VA <del>0.1 KA 600 V DC-13</del> <del>0.27 KA 250 V DC-13</del> <del>0.55 KA 125 V DC-13</del>
Net Weight	0.430 lb(US) (0.195 kg)
Device presentation	Complete product
Cap/operator or lens colour	Green
Lens type	Fresnel
[Us] rated supply voltage	120 V
Light source colour	Green
Lens material	Polycarbonate
Size	30 mm

## Environment

Standards	IEC 60947-5-1 UL 508 JIS C8201-5-1 IEC 60947-5-4 JIS C 852 CSA C22.2 No 14 IEC 60947-1 JIS C8201-1
Product Certifications	UL 508 NEMA
Protective treatment	TC
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Vibration resistance	7 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27
Electrical shock protection class	Class II conforming to IEC 61140
IP Degree of Protection	IP65 IP66
NEMA degree of protection	NEMA 1 NEMA 12 NEMA 13 NEMA 2 NEMA 3 NEMA 3R NEMA 4 NEMA 4X

## Ordering and shipping details

Category	US10CS121429
Discount Schedule	0CS1
GTIN	785901044482
Returnability	Yes

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Country of origin MX

## Packing Units

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Unit Type of Package 1 PCE

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Nbr. of units in pkg. 1

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Package 1 Height 2.00 in (5.08 cm)

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Package 1 Width 2.300 in (5.842 cm)

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Package 1 Length 4.50 in (11.43 cm)

---

Package weight(Lbs) 4.32 oz (122.47 g)

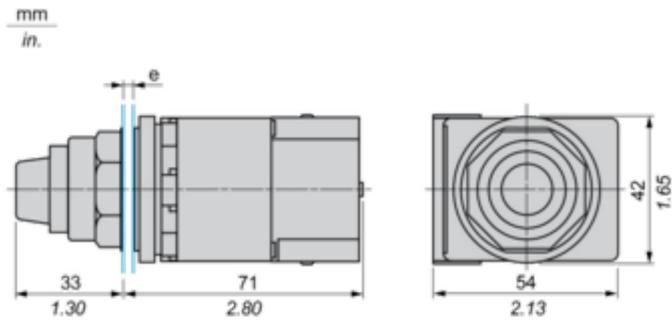
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## Contractual warranty

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Warranty (in months) 18

## Dimensions Drawings

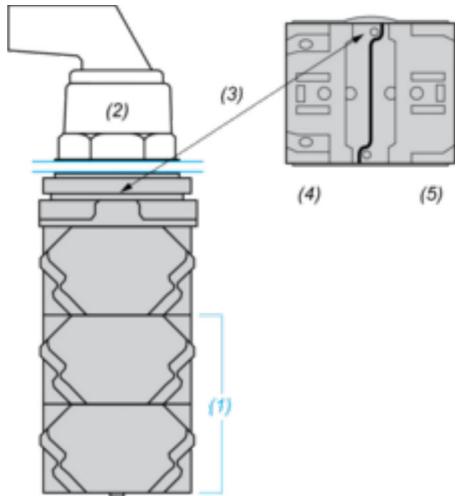
Dimensions

e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

## Mounting and Clearance

Contact Block Mounting Position

Top and Rear views



(1) It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks)

(2) Operator

(3) Locating notch

(4) Side 1

(5) Side 2

# Product data sheet PTT LIGHT, 120VAC LED, RED

Specifications

TAGS: LT0335



Push-to-test pilot light, Harmony  
9001SK, plastic, polycarbonate,  
fresnel lens, red, 30mm, LED red,  
120V

9001SKT38LRR31

**Product availability:** Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony 9001SK
Product or Component Type	Push-to-test pilot light
Device short name	9001SK
Type of operator	spring return
Operator profile	Red projecting, unmarked

## Complementary

Bezel material	Plastic
Mounting diameter	1.2 in (30 mm)
Shape of signaling unit head	Octagonal
Light source	LED
Light source	LED
Bulb base	BA 9s
Light block supply	Direct
[Us] rated supply voltage	120 V AC/DC
[Us] rated supply voltage	120 V AC/DC
Contacts type and composition	1 C/O
Connections - terminals	Screw clamp terminals 1 x 0.22...2 x 1.5 mm <sup>2</sup> IEC 60947-1
Tightening torque	7.08 lbf.in (0.8 N.m) IEC 60947-1
shape of screw head	Cross slotted
Mechanical durability	5000000 cycles
Operating position	Any position
[Ie] rated operational current	0.55 A 125 V, DC-13, A600-Q600 NEMA
[Ui] rated insulation voltage	250 V 3)IEC 60947-1
[Uiimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
Contacts material	Silver alloy contacts
Positive opening	Without
Short-circuit protection	10 A cartridge fuse IEC 60947-5-1
[Ith] conventional free air thermal current	10 A

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Icm] rated short-circuit making capacity	<del>12 kA 600 V AC-15, 7200 VA</del> <del>15 kA 480 V AC-15, 7200 VA</del> <del>30 kA 240 V AC-15, 7200 VA</del> 60 kA 120 V AC-15, 7200 VA
Rated breaking capacity	<del>1.2 kA 600 V AC-15, 720 VA</del> <del>1.5 kA 480 V AC-15, 720 VA</del> <del>3 kA 240 V AC-15, 720 VA</del> 6 kA 120 V AC-15, 720 VA <del>0.1 kA 600 V DC-13</del> <del>0.55 kA 125 V DC-13</del>
Net Weight	0.430 lb(US) (0.195 kg)
Device presentation	Complete product
Cap/operator or lens colour	Red
Lens type	Fresnel
[Us] rated supply voltage	120 V
Light source colour	Red
Lens material	Polycarbonate
Size	30 mm

## Environment

Standards	UL 508 CSA C22.2 No 14 JIS C8201-5-1 JIS C 852 IEC 60947-5-4 IEC 60947-1 IEC 60947-5-1 JIS C8201-1
Product Certifications	UL 508 NEMA
Protective treatment	TC
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Vibration resistance	7 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27
Electrical shock protection class	Class II conforming to IEC 61140
IP Degree of Protection	IP65 IP66
NEMA degree of protection	NEMA 1 NEMA 12 NEMA 13 NEMA 2 NEMA 3 NEMA 3R NEMA 4 NEMA 4X

## Ordering and shipping details

Category	US10CS121429
Discount Schedule	OCS1
GTIN	785901044505
Returnability	Yes
Country of origin	MX

## Packing Units

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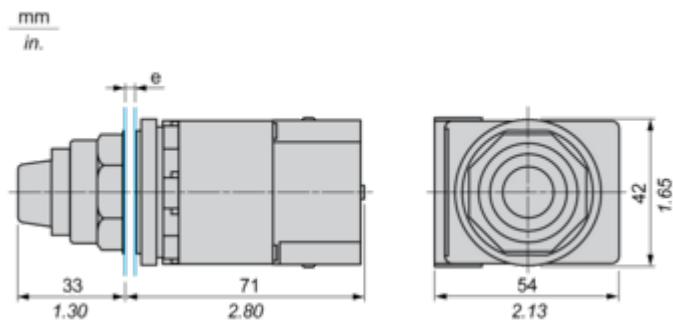
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.00 in (5.08 cm)
Package 1 Width	2.300 in (5.842 cm)
Package 1 Length	4.50 in (11.43 cm)
Package weight(Lbs)	4.32 oz (122.47 g)

## Contractual warranty

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Warranty (in months)	18
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## Dimensions Drawings

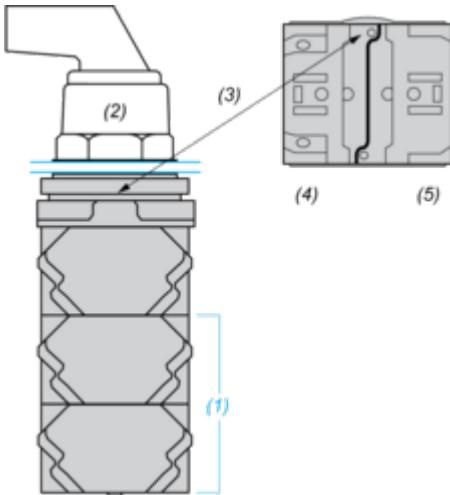
Dimensions

e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

## Mounting and Clearance

**Contact Block Mounting Position**

Top and Rear views



(1) It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks)

(2) Operator

(3) Locating notch

(4) Side 1

(5) Side 2

# Product data sheet

PTT LIGHT, 120VAC LED, AMBER

Specifications

TAGS: LT0402, LT0408, LT0409



Push-to-test pilot light, Harmony 9001SK, plastic, polycarbonate, fresnel lens, amber, 30mm, LED yellow, 120V

9001SKT38LYA31

**Product availability:** Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony 9001SK
Product or Component Type	Push-to-test pilot light
Device short name	9001SK
Type of operator	spring return
Operator profile	Amber projecting, unmarked

## Complementary

Bezel material	Plastic
Mounting diameter	1.2 in (30 mm)
Shape of signaling unit head	Octagonal
Light source	LED
Light source	LED
Bulb base	BA 9s
Light block supply	Direct
[Us] rated supply voltage	120 V AC/DC
[Us] rated supply voltage	120 V AC/DC
Contacts type and composition	1 C/O
Connections - terminals	Screw clamp terminals 1 x 0.22...2 x 1.5 mm <sup>2</sup> IEC 60947-1
Tightening torque	7.08 lbf.in (0.8 N.m) IEC 60947-1
shape of screw head	Cross slotted
Mechanical durability	5000000 cycles
Operating position	Any position
[Ie] rated operational current	0.55 A 125 V, DC-13, A600-Q600 NEMA
[Ui] rated insulation voltage	250 V 3)IEC 60947-1
[Uiimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
Contacts material	Silver alloy contacts
Positive opening	Without
Short-circuit protection	10 A cartridge fuse IEC 60947-5-1
[Ith] conventional free air thermal current	10 A

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Icm] rated short-circuit making capacity	12 kA 600 V AC-15, 7200 VA 30 kA 480 V AC-15, 7200 VA 60 kA 120 V AC-15, 7200 VA
Rated breaking capacity	1.2 kA 600 V AC-15, 720 VA 3 kA 480 V AC-15, 720 VA 6 kA 120 V AC-15, 720 VA 0.27 kA 250 V DC-13 0.55 kA 125 V DC-13
Net Weight	0.430 lb(US) (0.195 kg)
Device presentation	Complete product
Cap/operator or lens colour	Amber
Lens type	Fresnel
[Us] rated supply voltage	120 V
Light source colour	Yellow
Lens material	Polycarbonate
Size	30 mm

## Environment

Standards	JIS C8201-5-1 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-5-4 IEC 60947-1 UL 508 JIS C 852 JIS C8201-1
Product Certifications	NEMA UL 508
Protective treatment	TC
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Vibration resistance	7 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27
Electrical shock protection class	Class II conforming to IEC 61140
IP Degree of Protection	IP65 IP66
NEMA degree of protection	NEMA 1 NEMA 12 NEMA 13 NEMA 2 NEMA 3 NEMA 3R NEMA 4 NEMA 4X

## Ordering and shipping details

Category	US10CS121429
Discount Schedule	0CS1
GTIN	785901500582
Returnability	Yes
Country of origin	MX

## Packing Units

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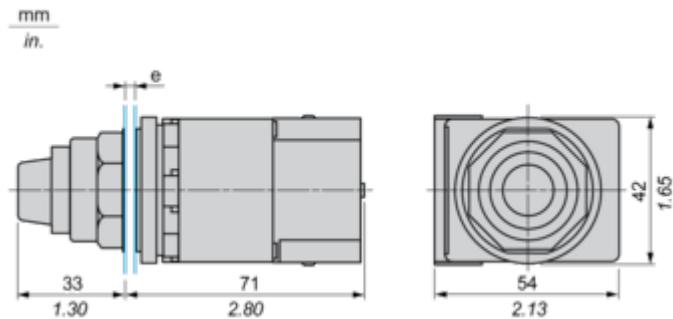
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	4.488 in (11.400 cm)
Package weight(Lbs)	4.233 oz (120.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	5.906 in (15.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	3.616 lb(US) (1.640 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	384
Package 3 Height	17.717 in (45.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	47.244 in (120.000 cm)
Package 3 Weight	142.154 lb(US) (64.480 kg)

## Contractual warranty

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Warranty (in months)	18
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## Dimensions Drawings

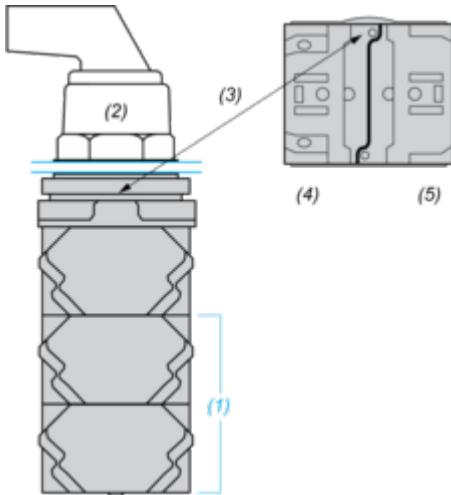
Dimensions

e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

## Mounting and Clearance

**Contact Block Mounting Position**

Top and Rear views



(1) It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks)

(2) Operator

(3) Locating notch

(4) Side 1

(5) Side 2

## Data Sheet 5

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Schneider Electric: Pushbutton, Black Model Number: 9001SKR1B</p> <p>Tags/Service: PB0310 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Plastic bezel material</li> <li>• Octagonal shape of signaling unit head</li> <li>• Without contact block and light source</li> <li>• NEMA 4X rated degree of protection</li> <li>• Black operator color</li> <li>• Flush operator profile</li> <li>• Spring return operator</li> </ul>
1	<p>Mfg: Schneider Electric: 1 NO Contact Model Number: 9001KA2</p> <p>Tags/Service: PB0310 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 1 NO contact composition</li> <li>• Standard contact operation</li> <li>• Silver alloy contact material</li> <li>• 10A conventional free air thermal current</li> <li>• 0.55A rated operation current</li> <li>• 120VAC rated operational voltage</li> </ul>

	<ul style="list-style-type: none"> <li>• 60kA rated short-circuit making capacity</li> <li>• 6kA rated breaking capacity</li> </ul>
2	<p>Mfg: Schneider Electric: 1 NC Contact  Model Number: 9001KA3</p> <p>Tags/Service:  PB0310 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 1 NC contact composition</li> <li>• Standard contact operation</li> <li>• Silver alloy contact material</li> <li>• 10A conventional free air thermal current</li> <li>• 0.55A rated operation current</li> <li>• 120VAC rated operational voltage</li> <li>• 60kA rated short-circuit making capacity</li> <li>• 6kA rated breaking capacity</li> </ul>

# Product data sheet

PUSHBUTTON, BLACK

Specifications

TAGS: PB0310



Push button head, Harmony  
9001SK, plastic, flush, black, 30mm,  
spring return

9001SKR1B

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony 9001SK
Product or Component Type	Head for push-button
Device short name	9001SK

## Complementary

Bezel material	Plastic
Mounting diameter	1.2 in (30 mm)
Shape of signaling unit head	Octagonal
Light source	without
Light block supply	Without supply
Contacts type and composition	Without contact block
Product Certifications	CE CSA LR24590 class 3211 03 UL listed file E42259 CCN NKCR
NEMA degree of protection	NEMA 3R/4X/13
Cap/operator or lens colour	Black
Operator profile	Flush
Type of operator	Spring return
Size	30 mm

## Environment

IP Degree of Protection	IP65 IP66
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## Ordering and shipping details

Category	US10CS121429
Discount Schedule	0CS1
GTIN	785901793878
Returnability	Yes
Country of origin	MX

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Package 1 Height</b>	2.800 in (7.112 cm)
<b>Package 1 Width</b>	2.300 in (5.842 cm)
<b>Package 1 Length</b>	2.00 in (5.08 cm)
<b>Package weight(Lbs)</b>	1.600 oz (45.359 g)

## **Contractual warranty**

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**Warranty (in months)** 18

# Product data sheet

1 NO CONTACT

Specifications

TAGS: PB0310



30mm Push Button, Types K, SK or KX, contact block, 1 NO

9001KA2

**Product availability:** Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony 9001K Harmony 9001SK
Product or Component Type	Contact block
Device short name	9001K
Contacts type and composition	1 NO

## Complementary

Terminals description ISO n°1	(1-2)NC
Net Weight	0.051 lb(US) (0.023 kg)
Contact operation	Standard
Positive opening	Without
Connections - terminals	Screw clamp terminals, 1 x 0.22...2 x 2.5 mm <sup>2</sup> IEC 60947-1
Tightening torque	7.08 lbf.in (0.8 N.m) IEC 60947-1
Shape of screw head	Cross slotted
Contacts material	Silver alloy contacts
Short-circuit protection	10 A cartridge fuse IEC 60947-5-1
[Ith] conventional free air thermal current	10 A
[Ui] rated insulation voltage	250 V 3)IEC 60947-1
[Uiimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
[Ie] rated operational current	3 A 240 V, AC-15, A600-Q600 NEMA 0.55 A 125 V, DC-13, A600-Q600 NEMA
[Icm] rated short-circuit making capacity	12 kA 600 V AC-15, 7200 VA 15 kA 480 V AC-15, 7200 VA 30 kA 240 V AC-15, 7200 VA 60 kA 120 V AC-15, 7200 VA 0.27 kA 250 V DC-13, 7200 VA 0.55 kA 125 V DC-13, 7200 VA 0.1 kA 600 V DC-13
Rated breaking capacity	3 kA 240 V AC-15, 720 VA 6 kA 120 V AC-15, 720 VA 1.2 kA 600 V AC-15, 720 VA 1.5 kA 480 V AC-15, 720 VA 0.1 kA 600 V DC-13 0.27 kA 250 V DC-13 0.55 kA 125 V DC-13
[Us] rated supply voltage	0...600 V
Connections - Terminals	Screw-clamp terminals

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

## Environment

Protective treatment	TC
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Electrical shock protection class	Class II conforming to IEC 61140
Standards	IEC 60947-5-4 JIS C 852 IEC 60947-5-1 JIS C 4520 CSA C22.2 No 14 UL 508 IEC 60947-1 UL 60947-5-1
Product Certifications	UL 508 NEMA
Vibration resistance	7 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27

## Ordering and shipping details

Category	US10CS121434
Discount Schedule	0CS1
GTIN	785901880011
Returnability	Yes
Country of origin	MX

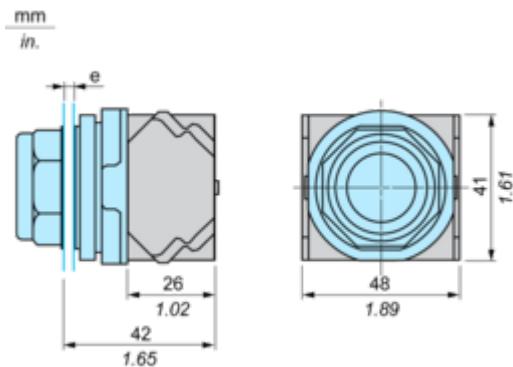
## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.181 in (3.000 cm)
Package 1 Width	1.575 in (4.000 cm)
Package 1 Length	1.969 in (5.000 cm)
Package weight(Lbs)	0.776 oz (22.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	100
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	5.906 in (15.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	5.269 lb(US) (2.390 kg)

## Contractual warranty

Warranty (in months)	18
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## Dimensions Drawings

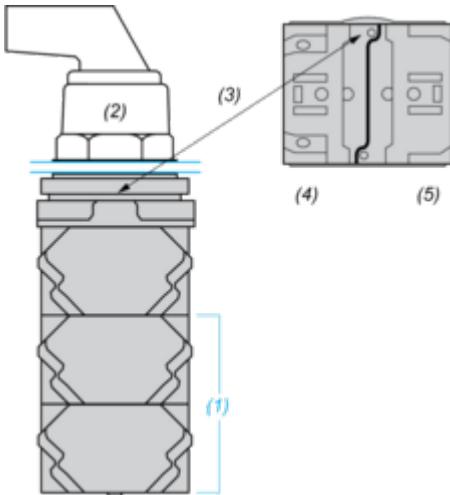
Dimensions

e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

## Mounting and Clearance

**Contact Block Mounting Position**

Top and Rear views



(1) It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks)

(2) Operator

(3) Locating notch

(4) Side 1

(5) Side 2

# Product data sheet

1 NC CONTACT

Specifications

TAGS: PB0310



## 30mm Push Button, Types K, SK or KX, contact block, 1 NC

9001KA3

**Product availability:** Stock - Normally stocked in distribution facility

### Main

Range of Product	Harmony 9001K Harmony 9001SK
Product or Component Type	Contact block
Device short name	9001K
Contacts type and composition	1 NC

### Complementary

Terminals description ISO n°1	(3-4)NO
Net Weight	0.051 lb(US) (0.023 kg)
Contact operation	Positive opening
Positive opening	With IEC 60947-5-2
Connections - terminals	Screw clamp terminals, 1 x 0.22...2 x 2.5 mm <sup>2</sup> IEC 60947-1
Tightening torque	7.08 lbf.in (0.8 N.m) IEC 60947-1
Shape of screw head	Cross slotted
Contacts material	Silver alloy contacts
Short-circuit protection	10 A cartridge fuse IEC 60947-5-1
[I <sub>th</sub> ] conventional free air thermal current	10 A
[U <sub>i</sub> ] rated insulation voltage	250 V 3)IEC 60947-1
[U <sub>imp</sub> ] rated impulse withstand voltage	2.5 kV IEC 60947-1
[I <sub>e</sub> ] rated operational current	3 A 240 V, AC-15, A600-Q600 NEMA 0.55 A 125 V, DC-13, A600-Q600 NEMA
[I <sub>cm</sub> ] rated short-circuit making capacity	12 kA 600 V AC-15, 7200 VA 15 kA 480 V AC-15, 7200 VA 30 kA 240 V AC-15, 7200 VA 60 kA 120 V AC-15, 7200 VA 0.55 kA 125 V DC-13 0.1 kA 600 V DC-13 0.27 kA 250 V DC-13
Rated breaking capacity	3 kA 240 V AC-15, 720 VA 6 kA 120 V AC-15, 720 VA 1.2 kA 600 V AC-15, 720 VA 1.5 kA 480 V AC-15, 720 VA 0.1 kA 600 V DC-13 0.27 kA 250 V DC-13 0.55 kA 125 V DC-13
[U <sub>s</sub> ] rated supply voltage	0...600 V
Connections - Terminals	Screw-clamp terminals

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

## Environment

Protective treatment	TC
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Electrical shock protection class	Class II conforming to IEC 61140
Standards	UL 508 JIS C 4520 JIS C 852 IEC 60947-5-4 CSA C22.2 No 14 IEC 60947-1 IEC 60947-5-1 UL 60947-5-1
Product Certifications	NEMA UL 508
Vibration resistance	7 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27

## Ordering and shipping details

Category	US10CS121434
Discount Schedule	0CS1
GTIN	785901880028
Returnability	Yes
Country of origin	MX

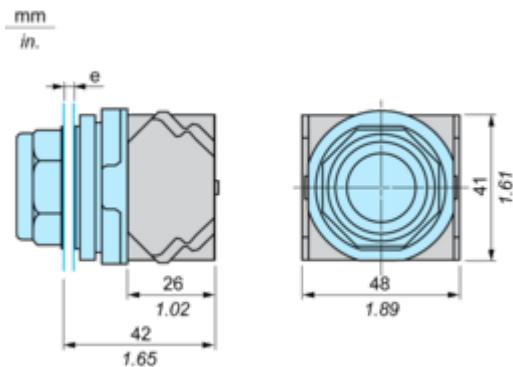
## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.378 in (3.500 cm)
Package 1 Width	1.654 in (4.200 cm)
Package 1 Length	2.008 in (5.100 cm)
Package weight(Lbs)	0.811 oz (23.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	100
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	5.906 in (15.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	5.196 lb(US) (2.357 kg)

## Contractual warranty

Warranty (in months)	18
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## Dimensions Drawings

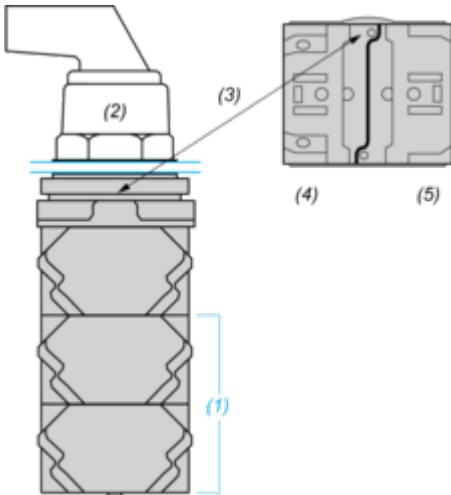
Dimensions

e panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

## Mounting and Clearance

**Contact Block Mounting Position**

Top and Rear views



(1) It is possible to mount up to 3 levels of contacts blocks (maximum of 6 contacts blocks)

(2) Operator

(3) Locating notch

(4) Side 1

(5) Side 2

## Data Sheet 6

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Schneider Electric: 3 Position Switch, Black Model Number: 9001SKS43BH2</p> <p>Tags/Service: SS0321 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• Plastic bezel material</li><li>• 3 position, 2 C/O contact composition</li><li>• Standard handle operator profile</li><li>• Black operator color</li><li>• Stay put operator type</li></ul>

# Product data sheet

3 POSITION SWITCH, BLACK

Specifications

TAGS: SS0321



Selector switch, Harmony 9001SK, plastic, standard handle, black, 30mm, 3 positions, stay put, 2 C/O

9001SKS43BH2

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product Harmony 9001SK

Product or Component Type Selector switch

Device short name 9001SK

## Complementary

Bezel material Plastic

Mounting diameter 1.2 in (30 mm)

Operator position information 3 positions

Contacts type and composition 2 C/O

Device presentation Complete product

Cap/operator or lens colour Black

Operator profile Standard handle

Type of operator Stay put

Size 30 mm

Cam profile 3

## Environment

Protective treatment TC

Ambient Air Temperature for Storage -40...158 °F (-40...70 °C)

Ambient Air Temperature for Operation -13...158 °F (-25...70 °C)

Electrical shock protection class Class II conforming to IEC 61140

IP Degree of Protection IP65  
IP66

NEMA degree of protection NEMA 3R/4X/13

Product Certifications UL listed file E42259 CCN NKCR  
CE  
CSA LR24590 class 3211 03

## Ordering and shipping details

Category US10CS121429

Discount Schedule 0CS1

GTIN 785901043799

Returnability Yes

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

---

Country of origin MX

## Packing Units

---

Unit Type of Package 1 PCE

---

Nbr. of units in pkg. 1

---

Package 1 Height 1.900 in (4.826 cm)

---

Package 1 Width 2.200 in (5.588 cm)

---

Package 1 Length 3.700 in (9.398 cm)

---

Package weight(Lbs) 4.000 oz (113.398 g)

---

## Contractual warranty

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Warranty (in months) 18

**Data Sheet 7**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Square D: CPT-480/120V, 150VA Model Number: 9070TF150D1</p> <p>Tags/Service: T0315 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• 480VAC primary, 120VAC secondary voltage</li><li>• Accepts CC fuse types</li><li>• Screw clamp terminal electrical connection</li><li>• Copper winding material</li></ul>

# Product data sheet

CPT-480/120V, 150VA

Specifications

TAGS: T0315

SQUARE D



Industrial control transformer, Type TF, 1 phase, 150VA, 240x480V primary, 120V secondary, 50/60Hz

9070TF150D1

Product availability: Stock - Normally stocked in distribution facility

## Main

Product or Component Type	Industrial Control Transformer
Type	TF

## Complementary

Number of Phases	1 phase
Power Rating	150 VA UL 150 VA CSA 150 VA NOM 150 VA CE
Primary to Secondary Voltage	240 x 480 V 120 V 230 x 460 V 115 V 220 x 440 V 110 V
Fuse type	0.41 x 1.50 in CC top
Temperature rise	55 °C
Electrical Connection	Screw clamp terminals
Height	4.5 in (114.3 mm)
Width	3.75 in (95.25 mm)
Depth	3.59 in (91.19 mm)
Material	Copper: winding
Fingersafe Cover Compatibility	FSC1

## Environment

Product Certifications	CSA file LR37055 guide 184-N-90 UL listed file E61239
Enclosure Type	Not rated (open device)
Insulation temperature	221 °F (105 °C)

## Ordering and shipping details

Category	US10CP816202
Discount Schedule	0CP8
GTIN	785901904793
Returnability	Yes
Country of origin	MX

## Packing Units

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

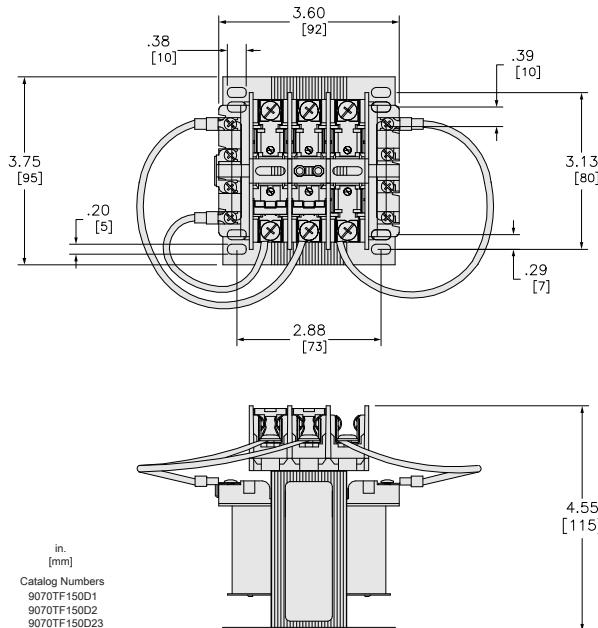
<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	6.50 in (16.51 cm)
<b>Package 1 Width</b>	7.00 in (17.78 cm)
<b>Package 1 Length</b>	7.700 in (19.558 cm)
<b>Package weight(Lbs)</b>	6.700 lb(US) (3.039 kg)

## **Contractual warranty**

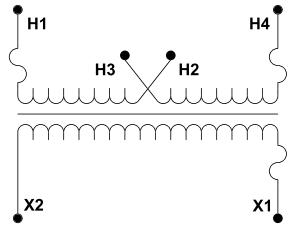
<b>Warranty (in months)</b>	18
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## Technical Illustration

## Dimensions



## Technical Illustration

Wiring diagram

## Options

Voltage Code	Voltages		Connections	
	Primary	Secondary	Primary	Secondary
D1	220 x 440 230 x 460 240 x 480	110 115 120	220 or 230 or 240; Connect to H1 and H4 Jumper H1 with H3 Jumper H2 with H4 440 or 460 or 480; Connect to H1 and H4 Jumper H2 with H3	Connect to X1 and X2

REFER TO TECHNICAL DOCUMENTATION FOR COMPLETE INFORMATION.

## Data Sheet 8

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Square D: Main Circuit Breaker, 20A Model Number: BDL36020</p> <p>Tags/Service: CB0301 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• 20A line rated current</li><li>• 3 pole circuit breaker, toggle control type</li><li>• 18kA breaking capacity</li><li>• Thermal magnetic trip unit technology</li><li>• 80% continuous current rating</li><li>• 44.3 lbf.in tightening torque</li></ul>

# Product data sheet

MAIN CIRCUIT BREAKER, 20A

Specifications

TAGS: CB0301

SQUARE D



Circuit breaker, PowerPact B,  
20A, 3 pole, 600Y/347VAC, 14kA,  
lugs, thermal magnetic, 80%

BDL36020

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 020
Product or Component Type	Circuit breaker
Device Application	Distribution

## Complementary

Line Rated Current	20 A
Number of Poles	3P
Control Type	Toggle
Breaking capacity code	D
Breaking capacity	<del>25 kA 208Y/120 V AC 50/60 Hz UL 489</del> <del>25 kA 240 V AC 50/60 Hz UL 489</del> <del>18 kA 480/277 V AC 50/60 Hz UL 489</del> <del>18 kA 480 V AC 50/60 Hz UL 489</del> <del>14 kA 600Y/347 V AC 50/60 Hz UL 489</del> <del>10 kA 250 V DC UL 489</del>
[Ue] rated operational voltage	525 V AC 50/60 Hz UL 489
Network Frequency	50/60 Hz
[Ics] rated service breaking capacity	<del>25 kA 220...240 V AC 50/60 Hz IEC 60947-2</del> <del>14 kA 500...525 V AC 50/60 Hz IEC 60947-2</del> <del>18 kA 380...415 V AC 50/60 Hz IEC 60947-2</del> 18 kA 440 V AC 50/60 Hz IEC 60947-2
[Uiimp] rated impulse withstand voltage	8 kV IEC 60947-2
Trip unit technology	Thermal-magnetic
Continuous current rating	80 %
[Ui] rated insulation voltage	800 V IEC 60947-2
Suitability for isolation	Yes IEC 60947-2
Utilisation category	Category A
Mechanical durability	20000 cycles IEC 947-1 Annex K ed 5.2
Electrical durability	10000 cycles IEC 947-1 Annex K ed 5.2 440 V In
Connection pitch	1.06 in (27 mm)
AWG gauge	AWG 6...AWG 2/0 fine stranded aluminium/copper <del>AWG 14...AWG 3/0 rigid or stranded aluminium/copper</del>
Local signalling	Presence of auxiliary contacts flag green)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Mounting mode</b>	Clip-on 35 x 15 mm symmetrical DIN rail) By screws plate)
<b>Electrical connection</b>	Everlink lug, line Everlink lug, load
<b>Tightening torque</b>	44.3 lbf.in (5 N.m) 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) (AWG 14...AWG 4) <del>79.7 lbf.in (9 N.m) 0.04...0.1 in<sup>2</sup> (25...95 mm<sup>2</sup>) (AWG 3...AWG 3/0)</del>
<b>Number of slots</b>	1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in) 1 alarm switch SD plug-in)
<b>Power wire stripping length</b>	0.8 in (20 mm)
<b>Color</b>	Gray RAL 7016)
<b>9 mm pitches</b>	9
<b>Height</b>	5.4 in (137 mm)
<b>Width</b>	3.2 in (81 mm)
<b>Depth</b>	3.1 in (80 mm)
<b>Net Weight</b>	2.368 lb(US) (1.074 kg)
<b>Quantity per Set</b>	Set of 1
<b>Circuit breaker application</b>	HACR rated

## Environment

<b>Quality labels</b>	CE
<b>Standards</b>	EN/IEC 60947-5-1 NEMA AB1 NMX J-266 CSA C22.2 No 5 UL 489 GB 14048.2 EN/IEC 60947-2
<b>Product certifications</b>	UL IEC CCC EAC CSA NOM
<b>IP degree of protection</b>	Front cover IP40 IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Pollution degree</b>	3 IEC 60947-1
<b>Ambient Air Temperature for Operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-58...185 °F (-50...85 °C)
<b>Operating altitude</b>	< 6561.68 ft (2000 m) without derating 5000 m with derating

## Ordering and shipping details

<b>Category</b>	US10DE201130
<b>Discount Schedule</b>	0DE2
<b>GTIN</b>	3606481152978
<b>Returnability</b>	Yes
<b>Country of origin</b>	MX

## Packing Units

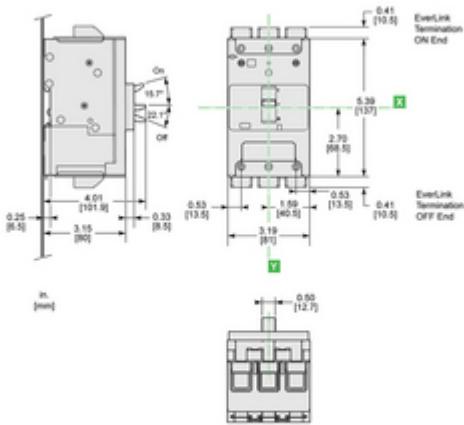
<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	3.5 in (8.9 cm)
<b>Package 1 Width</b>	6.4 in (16.3 cm)
<b>Package 1 Length</b>	10.2 in (25.9 cm)
<b>Package weight(Lbs)</b>	3.13 lb(US) (1.42 kg)

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## Technical Illustration

## Dimensions



(L) TERMINATION OPTION - EverLink (ON end) | EverLink (OFF end)  
ALL DIMENSIONS ARE APPROXIMATE.  
ALSO REFER TO CAD, TECHNICAL DRAWINGS, AND DOCUMENTATION

## Data Sheet 9

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
<u>Qty</u>	<u>Description</u>
2	<p>Mfg: Weidmuller: Circuit Breaker, 120VAC, 2A Model Number: 9926251002</p> <p>Tags/Service: CB0318, CB0319 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• 120VAC 50/60Hz nominal supply voltage</li><li>• 2A rated current</li><li>• 10kA interrupting capacity</li><li>• 1500V, 50/60Hz dielectric strength</li><li>• 100MΩ insulation resistance</li><li>• 10,000 mechanical operation operating life</li><li>• -40-60° C operating temperature</li><li>• 20lb-in tightening torque</li></ul>

## 9926 Series Branch Rated Circuit Breakers-AC Version

**Circuit Breakers**  
**Hydraulic Magnetic Type**

- Single pole and double pole versions
- Higher current ratings made of 2 or 3 poles in parallel
- KM trip curve for general purpose applications
- 120/240 VAC, 50/60 Hz
- Up to 25A
- Just 13 mm wide
- Mounts on 35mm DIN-rail
- UL 489 listed, CSA C22.2 No. 5-02, CE

**9926 Series**  
**Single Pole**

**9926 Series**  
**Double Pole**


Ordering Data		
Current Ratings (amps)	Part No.	Type: Single Pole
0.5	9926251000	QL-1-13-DM-KM-0.5
1	9926251001	QL-1-13-DM-KM-01
2	9926251002	QL-1-13-DM-KM-02
3	9926251003	QL-1-13-DM-KM-03
4	9926251004	QL-1-13-DM-KM-04
5	9926251005	QL-1-13-DM-KM-05
6	9926251006	QL-1-13-DM-KM-06
7	9926251007	QL-1-13-DM-KM-07
8	9926251008	QL-1-13-DM-KM-08
10	9926251010	QL-1-13-DM-KM-10
13	9926251013	QL-1-13-DM-KM-13
15	9926251015	QL-1-13-DM-KM-15
16	9926251016	QL-1-13-DM-KM-16
20	9926251020	QL-1-13-DM-KM-20
25	9926251025	QL-1-13-DM-KM-25

Type: Double Pole		
Current Ratings (amps)	Part No.	Description
0.5	9926252000	QL-2-13-DM-KM-0.5
1	9926252001	QL-2-13-DM-KM-01
2	9926252002	QL-2-13-DM-KM-02
3	9926252003	QL-2-13-DM-KM-03
4	9926252004	QL-2-13-DM-KM-04
5	9926252005	QL-2-13-DM-KM-05
6	9926252006	QL-2-13-DM-KM-06
7	9926252007	QL-2-13-DM-KM-07
8	9926252008	QL-2-13-DM-KM-08
10	9926252010	QL-2-13-DM-KM-10
13	9926252013	QL-2-13-DM-KM-13
15	9926252015	QL-2-13-DM-KM-15
16	9926252016	QL-2-13-DM-KM-16
20	9926252020	QL-2-13-DM-KM-20
25	9926252025	QL-2-13-DM-KM-25

**Technical Data**

Voltage	120/240 VAC, 50/60Hz
Current	
minimum	0.5A
maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100MΩ
Operating life	10000 mechanical operations
Operating temperature	-40...+60°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 lb-in.

**Approval**

UL 489 listed, CSA C22.2 No. 5-02, CE

Accessories	Part No.
Bus-bar (54 pole, insulated)	67101904

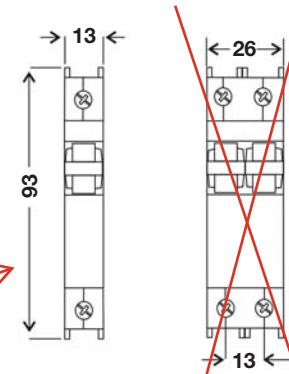
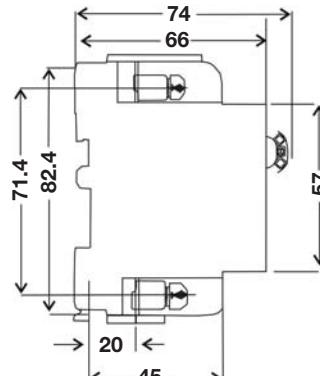
\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards

The 9926 circuit breakers do not have provisions for marking tags.

A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit).

The SchS2 accepts DEK, WS and ESG 8/17 marking tags.

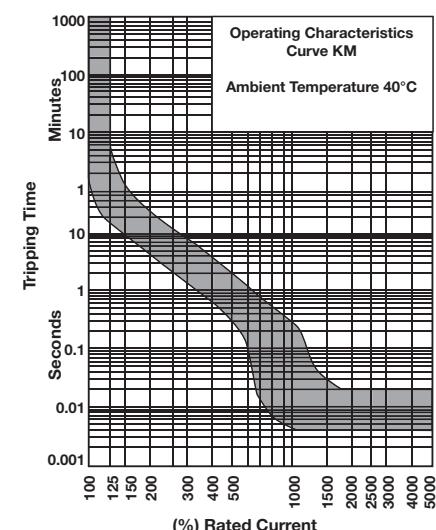
The part number for adhesive SchS2 is 1720600000.

**9926 Series AC Version - dimensions in mm****Trip Curves—Hydraulic Magnetic Type**  
**Typical time/current characteristics at 40°C****Sample trip characteristics**

	125%	150%	200%	400%	600%	800%	1000%
minimum (sec)	15	8	4	0.7	0.09	0.007	0.005
maximum (sec)	300	90	28	4	1.5	0.6	0.4

Although the 9926 series uses a magnetic only trip mechanism, CSA testing indicates a trip characteristic similar to thermal magnetic trip mechanisms. No de-rating is required at elevated temperatures.

Additional trip curves and amp ratings are available upon request.

**9926 Series—AC version**

## Data Sheet 10

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
4	<p>Mfg: Schneider Electric: Miniature Relay, 120VAC, 8 Blade Model Number: RXM2AB2F7</p> <p>Tags/Service: CR0324, CR0332, CR0336, CR0401 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Miniature plug-in relay</li> <li>• 2 C/O contacts</li> <li>• With status LED and lockable test button</li> <li>• 120VAC control circuit voltage</li> <li>• 10A continuous output current</li> <li>• 12A rated operational current</li> <li>• 100000 cycles resistive electrical durability</li> <li>• 1.2VA average power consumption</li> <li>• Silver nickel contact material</li> </ul>
4	<p>Mfg: Schneider Electric: Relay Socket, 120VAC, 8 Blade, DIN Model Number: RXZE2M114</p> <p>Tags/Service: CR0324, CR0332, CR0336, CR0401 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• For miniature plug-in relay RXM, 2 C/O contact composition</li> <li>• Screw clamp terminals, clip-on DIN rail mounting</li> </ul>

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• Mixed contact terminal arrangement</li><li>• &lt; 300VAC UL rated operational voltage</li></ul> |
|--|---|

# Product data sheet

MINIATURE RELAY, 120VAC, 8 BLADE

Specifications

TAGS: CR0324, CR0332, CR0336, CR0401



miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, with LED, lockable test but to n, 120V AC

RXM2AB2F7

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony Electromechanical Relays
Series name	RXM series
Product or Component Type	Plug-in relay
Relay Type	Miniature relay
Contacts type and composition	2 C/O
Status LED	With
Control Type	Lockable test button
[Uc] control circuit voltage	120 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	12 A
Continuous output current	10 A

## Complementary

[Ui] rated insulation voltage	4 kV 1.2/50 µs
[Ie] rated operational current	<del>12 A 28 V DC</del> NO IEC <del>12 A 250 V AC</del> NO IEC <del>6 A 28 V DC</del> NC IEC <del>6 A 250 V AC</del> NC IEC <del>12 A 28 V DC</del> UL 12 A 277 V AC UL
Minimum switching capacity	170 mW 10 mA, 17 V
Electrical durability	100000 cycles resistive
Average coil consumption in VA	1.2 60 Hz
Rated operational voltage limits	96...132 V AC
[Ui] rated insulation voltage	<del>250 V IEC</del> <del>300 V CSA</del> 300 V UL
Average consumption	1.2 VA 60 Hz
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	>= 0.15 Uc
Load current	12 A 250 V AC <del>12 A 28 V DC</del>
Operating time	20 ms
Maximum switching capacity	3000 VA/336 W
Average resistance	4430 Ohm 20 °C +/- 15 %

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Mechanical durability</b>	10000000 cycles
<b>Safety reliability data</b>	B10d = 100000
<b>Operating rate</b>	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
<b>Utilisation coefficient</b>	20 %
<b>CAD overall height</b>	3.1 in (79 mm)
<b>CAD overall depth</b>	3.09 in (78.45 mm)
<b>reset time</b>	20 ms
<b>Dielectric strength</b>	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation
<b>Compatibility code</b>	RXM
<b>Protection category</b>	RT I
<b>Pollution degree</b>	3
<b>Operating position</b>	Any position
<b>Test levels</b>	Level A group mounting
<b>Device presentation</b>	Complete product
<b>Contacts material</b>	AgNi
<b>Shape of pin</b>	Flat (faston type)
<b>Net Weight</b>	0.082 lb(US) (0.037 kg)

## Environment

<b>Ambient air temperature for operation</b>	-40...131 °F (-40...55 °C)
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Standards</b>	CSA C22.2 No 14 IEC 61810-1 UL 508
<b>Product Certifications</b>	UL Lloyd's CE CSA GOST IECEE CB Scheme
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Vibration resistance</b>	3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 5 gn +/- 1 mm 10...150 Hz)5 cycles not operating
<b>Shock resistance</b>	10 gmin operation 30 gnot operating

## Ordering and shipping details

<b>Category</b>	US10CP221127
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3389119403504
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

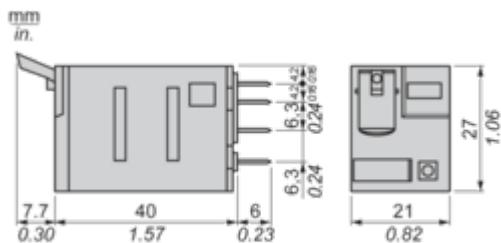
## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	0.827 in (2.100 cm)
<b>Package 1 Width</b>	1.063 in (2.700 cm)
<b>Package 1 Length</b>	1.811 in (4.600 cm)
<b>Package weight(Lbs)</b>	1.305 oz (37.000 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	1.181 in (3.000 cm)
<b>Package 2 Width</b>	4.016 in (10.200 cm)
<b>Package 2 Length</b>	4.921 in (12.500 cm)
<b>Package 2 Weight</b>	13.686 oz (388.000 g)
<b>Unit Type of Package 3</b>	S02
<b>Number of Units in Package 3</b>	240
<b>Package 3 Height</b>	5.906 in (15.000 cm)
<b>Package 3 Width</b>	11.811 in (30.000 cm)
<b>Package 3 Length</b>	15.748 in (40.000 cm)
<b>Package 3 Weight</b>	21.625 lb(US) (9.809 kg)

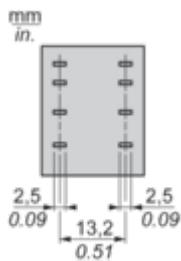
## Contractual warranty

<b>Warranty (in months)</b>	18
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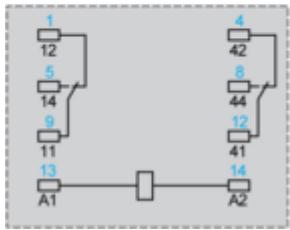
## Dimensions Drawings

Dimensions

Pin Side View



## Connections and Schema

Wiring Diagram

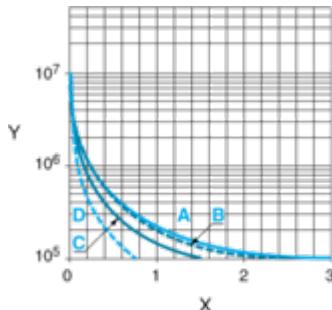
Symbols shown in blue correspond to Nema marking.

## Performance Curves

Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



X Switching capacity (kVA)

Y Durability (Number of operating cycles)

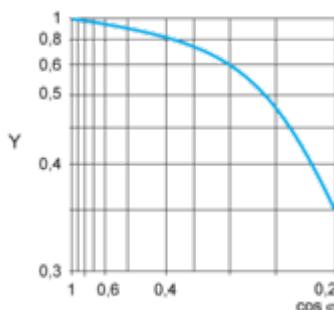
A RXM2AB...

B RXM3AB...

C RXM4AB...

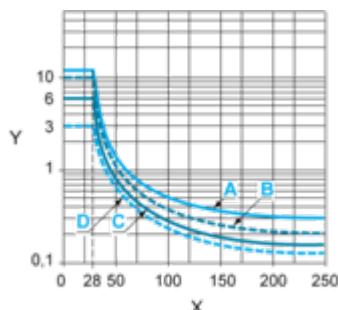
D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor  $\cos \phi$ )



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

A RXM2AB...

B RXM3AB...

C RXM4AB...

D RXM4GB...

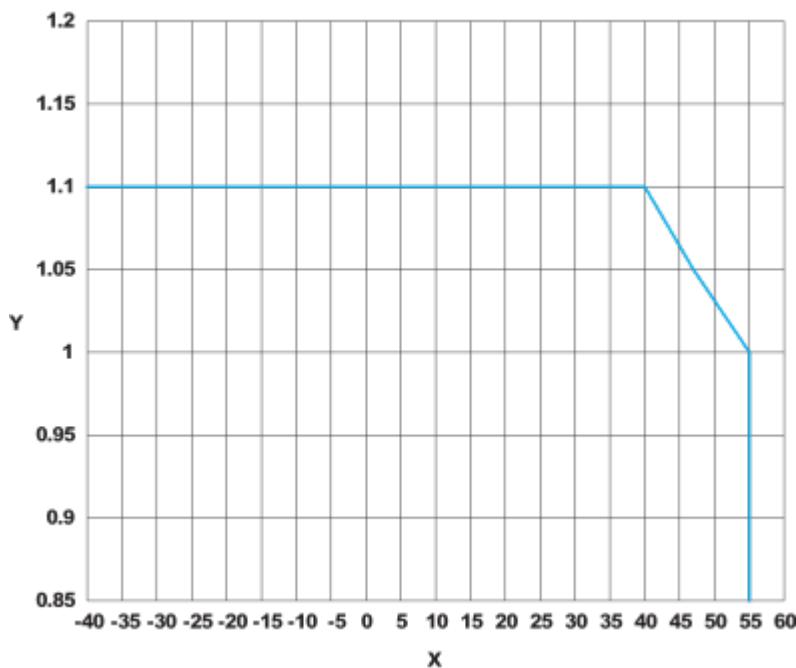
**Note :** These are typical curves, actual durability depends on load, environment, duty cycle, etc.

For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only- ).

For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.

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AC Coil Voltage and Operating Temperature under continuous duty

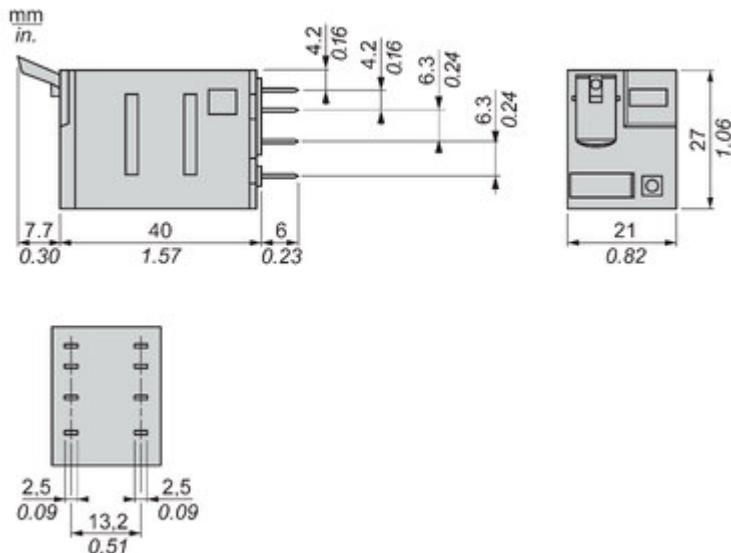


X : Operating temperature (°C)

Y : AC coil voltage (UC)

## Technical Illustration

## Dimensions



# Product data sheet

Specifications

MINIATURE RELAY SOCKET, 120VAC, 8 BLADE, DIN



Harmony, plugin relay socket, mixed contact, 10 A, 250 V, screw clamp, for RXM2 or RXM4 relays

RXZE2M114

TAGS: CR0324, CR0332, CR0336, CR0441

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony Electromechanical Relays Harmony Timer Relays
Product compatibility	Plug-in relay RXM 2 C/O <del>Plug-in relay RXM 4 C/O</del> <del>Plug-in relay REXL 2 C/O</del> <del>Plug-in relay REXL 4 C/O</del> <del>Plug-in relay 782H 4 C/O</del>
Device short name	RXZ
[I <sub>th</sub> ] conventional free air thermal current	10 A
Product or Component Type	Socket
Contacts type and composition	4 C/O

## Complementary

[U <sub>e</sub> ] rated operational voltage	< 250 V IEC < 300 V UL
Connections - terminals	Screw clamp terminals, 1 x 0.34...1 x 1 mm <sup>2</sup> AWG 22...AWG 17) flexible with cable end Screw clamp terminals, 2 x 0.34...2 x 1 mm <sup>2</sup> AWG 22...AWG 17) flexible with cable end Screw clamp terminals, 1 x 0.5...1 x 1.5 mm <sup>2</sup> AWG 20...AWG 16) solid without cable end Screw clamp terminals, 2 x 0.5...2 x 1.5 mm <sup>2</sup> AWG 20...AWG 16) solid without cable end
Shape of pin	Flat
Tightening torque	< 1 N.m M3
Fixing mode	By screw (panel) Clip-on (35 mm symmetrical DIN rail)
Wire stripping length	0.3 in (8 mm)
Contact terminal arrangement	Mixed
[U <sub>imp</sub> ] rated impulse withstand voltage	4 kV
Overvoltage category	III
Pollution degree	3
Sale per indivisible quantity	10
Width	1.2 in (30 mm)
Net Weight	0.112 lb(US) (0.051 kg)

## Environment

IP degree of protection	IP20 conforming to IEC 60529
-------------------------	------------------------------

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Dielectric strength</b>	2500 V
<b>Standards</b>	IEC 61984
<b>Product Certifications</b>	UL CSA Lloyd's
<b>Marking</b>	CE
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	-40...131 °F (-40...55 °C)

## Ordering and shipping details

<b>Category</b>	US10CP221128
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3389119404242
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

## Packing Units

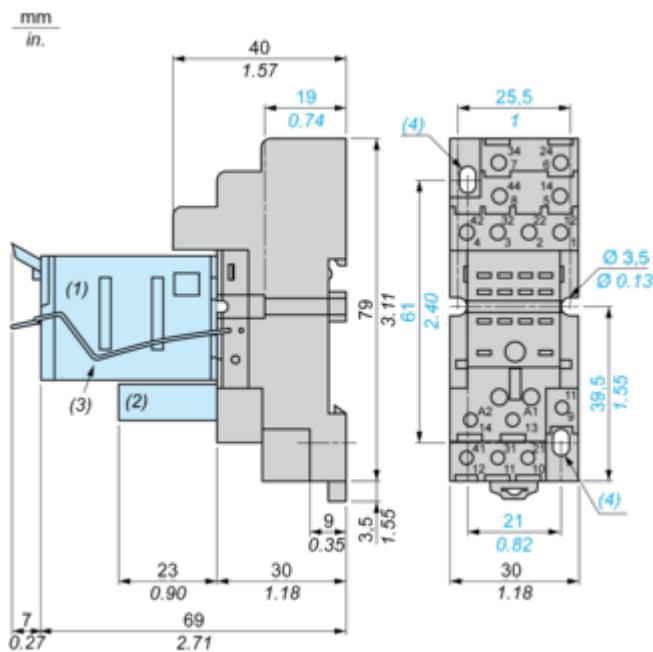
<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	1.024 in (2.600 cm)
<b>Package 1 Width</b>	1.220 in (3.100 cm)
<b>Package 1 Length</b>	2.756 in (7.000 cm)
<b>Package weight(Lbs)</b>	1.975 oz (56.000 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	2.992 in (7.600 cm)
<b>Package 2 Width</b>	3.504 in (8.900 cm)
<b>Package 2 Length</b>	6.102 in (15.500 cm)
<b>Package 2 Weight</b>	21.164 oz (600.000 g)
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	200
<b>Package 3 Height</b>	11.811 in (30.000 cm)
<b>Package 3 Width</b>	11.811 in (30.000 cm)
<b>Package 3 Length</b>	15.748 in (40.000 cm)
<b>Package 3 Weight</b>	27.445 lb(US) (12.449 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Dimensions Drawings

## Dimensions



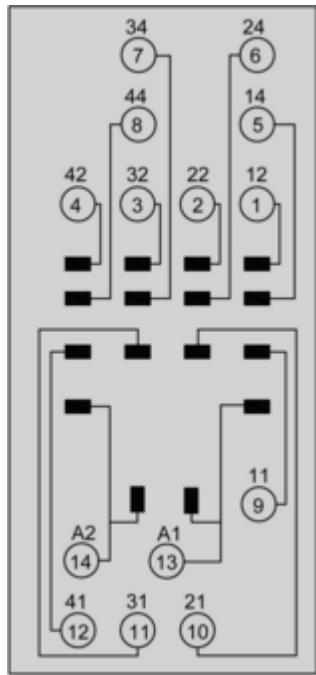
(1) Relays

(2) Protection module

(3) Maintaining clamp

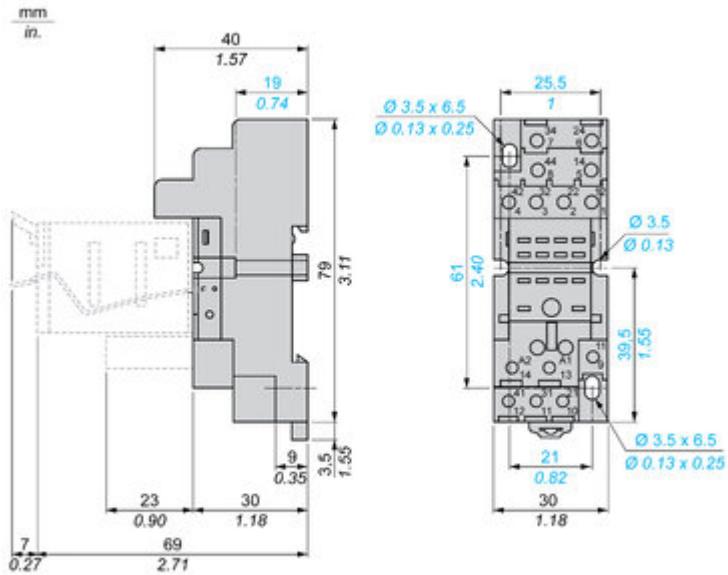
(4) 2 elongated holes Ø 3.5 mm x 6.5 mm / Ø 0.13 in. x 0.25 in.

## Connections and Schema

Wiring Diagram

## Technical Illustration

## Dimensions



## Data Sheet 11

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Mersen: Fuse, Fast Acting, 2A Model Number: ATMR2</p> <p>Tags/Service: FU0315B / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Fast acting, very current limiting</li> <li>• 200kA I.R. AC rating</li> <li>• For individual component and branch circuit protection</li> <li>• 600VAC voltage rating</li> </ul>
4	<p>Mfg: Mersen: Fuse, Fast Acting, 0.5A Model Number: ATMR1/2</p> <p>Tags/Service: FU0304, FU0304A, FU0305, FU0305A / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Fast acting, very current limiting</li> <li>• 200kA I.R. AC rating</li> <li>• For individual component and branch circuit protection</li> <li>• 600VAC voltage rating</li> </ul>
2	<p>Mfg: Mersen: Fuse, Time Delay, 0.8A Model Number: ATQR8/10</p>

	<p>Tags/Service: FU0315, FU0315A / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Time delay, class CC fuse</li> <li>• 200kA I.R. AC rating</li> <li>• For control transformer inrush loads</li> <li>• Highly current limiting for low peak let-thru current</li> <li>• 600VAC voltage rating</li> <li>• High-grade silica filler for fast arc quenching and high current limitation</li> </ul>
1	<p>Mfg: Mersen: Miniature Fuse, Fast Acting, 0.1A Model Number: MI5HF25V0.1/100</p> <p>Tags/Service: FU0406 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 5x20 fuse size</li> <li>• Fast acting</li> <li>• 250VAC voltage rating</li> <li>• Ceramic body material</li> <li>• 1500A I.R. AC rating</li> <li>• Brass, nickel plated contact caps</li> </ul>
1	<p>Mfg: Mersen: Class CC Fuse Block, 4 Poles Model Number: 30324R</p> <p>Tags/Service: FU0304, FU0304A, FU0305, FU0305A / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p>

	<ul style="list-style-type: none"> <li>• Pressure plate with double quick-connects</li> <li>• 600VAC voltage rating</li> <li>• 30A maximum current</li> <li>• 10kA SCCR when using quick connect terminal</li> <li>• Tin-plated copper alloy fuse clips</li> <li>• 20in-lb tightening torque</li> </ul>
1	<p>Mfg: Phoenix Contact: Fuse Terminal Block, 120VAC  Model Number: 3046100</p> <p>Tags/Service:  FU0406 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• For glass/ceramic fuses</li> <li>• 4kV rated surge voltage</li> <li>• Max 1.6W power dissipation</li> <li>• Screw type connection method</li> <li>• For 5x20 sized fuses</li> <li>• 250VAC nominal voltage</li> <li>• 6.3A nominal maximum load current</li> </ul>

## FUSE, FAST ACTING, 2A

TAGS: FU0315B

## FUSE, FAST ACTING, 0.5A

TAGS: FU0304, FU0304A, FU0305, FU0305A

# ATMR

Fast Acting/Class CC

### UL/CSA LISTED POWER FUSES

SMALL FUSE - BIG PROTECTION  
FOR GENERAL CIRCUITS

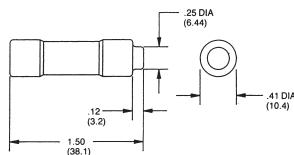


Amp-Trap® ATMR fuses, in the Class CC family, are the smallest dimension 600VAC/DC fuses suitable for branch circuit protection. The ATMR is a popular choice for economical protection of control circuits and control circuit transformers where available short circuit currents exceed 10,000 amperes. ATMR's rejection dimensions prevent substitution by lesser rated fuses. These fast acting fuses give current-limiting protection to general circuits.

### CATALOG NUMBERS (AMPS)

ATMR1/10	ATMR1	ATMR4	ATMR10
ATMR1/8	ATMR11/4	ATMR5	ATMR12
ATMR2/10	ATMR11/2	ATMR6	ATMR15
ATMR1/4	<b>ATMR2</b>	ATMR7	ATMR20
ATMR2/10	ATMR2 1/2	ATMR8	ATMR25
<b>ATMR1/2</b>	<b>ATMR3</b>	ATMR9	ATMR30
ATMR3/4	ATMR3 1/2		

### DIMENSIONS



### RECOMMENDED FUSE BLOCKS FOR AMP-TRAP® CLASS CC FUSES

Number of Poles	UltraSafe™ Indicating Fuse Holders	Screw Connector with Double Quick Connects	Pressure Plate Connector with Double Quick Connects	Copper Box Connector
Adder	—	30310R	30320R	30350R
1	USCC1I	30311R	30321R	30351R
2	USCC2I	30312R	30322R	30352R
3	USCC3I	30313R	30323R	30353R
3	USFMCC1	—	—	—

A variety of pole configurations and termination provisions are available.  
Refer to Section FB for details.

### RATINGS

- **Volts:** 600VAC / DC
- **Amps:** 1/10 to 30A
- **I.R.:** 200kA I.R. AC,  
100kA I.R. DC

### HIGHLIGHTS

- Fast acting
- Very current limiting

### FEATURES/BENEFITS

- Rejection-style design prevents replacement errors when used with recommended fuse blocks
- Versatile design for individual component and branch circuit protection

### APPLICATIONS

- Control circuits
- Lighting
- General loads
- Branch circuit protection

### APPROVALS/STANDARDS

- UL Listed to Standard 248-4 File E2137
- CSA Certified to Standard C22.2 No. 248.4
- DC listed to UL Standard 248



## FUSE, TIME DELAY, 0.8A

TAGS: FU0315, FU0315A

# ATQR

Time Delay/Class CC

### UL/CSA LISTED POWER FUSES

### TAKE CONTROL OF FAULT CURRENTS HEADED FOR YOUR CONTROL TRANSFORMER



ATQR small-dimension fuses feature time-delay characteristics ideally suited for the high inrush currents of control transformers, solenoids, and similar inductive loads. Mersen's ATQR fuses provide superior protection for the branch circuits of electrical distribution systems.

### FEATURES/BENEFITS

- Time delay for control transformer inrush loads without nuisance opening
- Highly current limiting for low peak let-thru current
- Rejection-style design prevents replacement errors (when used with recommended fuse blocks)
- High visibility orange label ensures instant brand recognition, and simplifies replacement
- Metal-embossed date and catalog number for traceability and lasting identification
- Fiberglass body provides dimensional stability in harsh industrial settings
- High-grade silica filler ensures fast arc quenching and high current limitation

### HIGHLIGHTS

- Time delay
- Best choice for small transformer protection
- Current limiting

### RATINGS

**Volts:** 600VAC (1/10-30A),  
300VDC (3-2/10 - 30A)

**Amps:** 1/10 to 30A

**I.R.:** 200kA I.R. AC,  
100kA I.R. DC

### APPLICATIONS

- Control transformers
- Solenoids
- Inductive loads
- Lighting, heating, and general-purpose loads

*Note: See motor fuse applications tables for more information*

### APPROVALS/STANDARDS

- UL listed to standard 248-4 File E2137
- DC listed to UL standard 248
- CSA certified to standard C22.2 No. 248.4



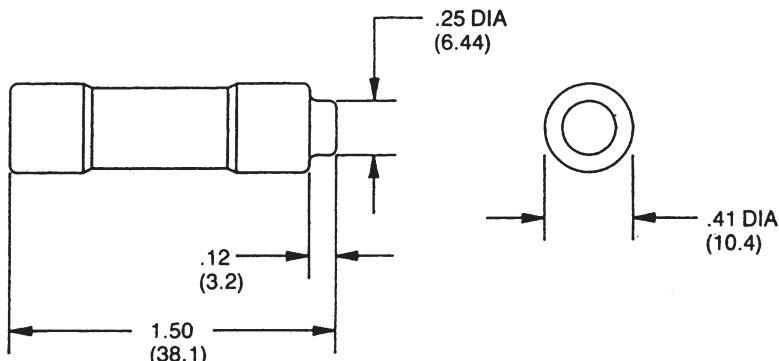
## CATALOG NUMBERS (AMPS)

ATQR1/10	ATQR8/10	ATQR2-8/10	ATQR7 1/2
ATQR1/8	ATQR1	ATQR3	ATQR8
ATQR3/16	ATQR11/8	ATQR3 2/10	ATQR9
ATQR2/10	ATQR11/4	ATQR3 1/2	ATQR10
ATQR1/4	ATQR1 4/10	ATQR4	ATQR12
ATQR3/10	ATQR11/2	ATQR4 1/2	ATQR15
ATQR4/10	ATQR1 6/10	ATQR5	ATQR17 1/2
ATQR1/2	ATQR1 8/10	ATQR5 6/10	ATQR20
ATQR6/10	ATQR2	ATQR6	ATQR25
ATQR3/4	ATQR2 1/4	ATQR6 1/4	ATQR30
	ATQR2 1/2	ATQR7	

RECOMMENDED FUSE BLOCKS  
FOR CLASS CC FUSES

Number of Poles	Catalog Numbers			
	UltraSafe™ Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector
Adder	—	30310R	30320R	30350R
1	USCC1I	30311R	30321R	30351R
2	USCC2I	30312R	30322R	30352R
3	USCC3I	30313R	30323R	30353R
3	USFMCCI	—	—	—

## DIMENSIONS



## MINIATURE FUSE, FAST ACTING, 0.1A

TAGS: FU0406

# Fuses 5x20 - Quick acting - 5HF

### IEC MINIATURE FUSES

5X20



### FEATURES & BENEFITS

- 5x20
- Fast action
- Safe protection system

### APPLICATIONS

- Electrical equipment
- Industrial power devices
- Circuit boards

### STANDARDS

- IEC 60127-2 sheet 1

Mersen's 5HF miniature fuses cover a range including multiple amperages for 250VAC, for the protection of electrical distribution circuits and other industrial applications. These fuses are available in the size 5X20. 5HF miniature fuses are fast-acting fuses that protect your electrical equipment from the slightest high current. All our technology and processes are designed to ensure the best technical performance.

### TECHNICAL DATA OVERVIEW

Voltage AC	250 VAC
Ratings (A)	0,1 A to 20 A
Speed/Characteristic	Quick acting
I.R. AC (IEC/UL)	1500 A
Body Material	Ceramic
Construction	50 mA - 500 mA : without extinguishing agent 630 mA - 16 A : with extinguishing agent
Contact caps	Brass, nickel plated



# Fuses 5x20 - Quick acting - 5HF

## PRODUCT RANGE

### 5X20 Fast Acting 5HF - Set of 100

Catalog number	Item number	Size	Rated voltage	Rated current $I_n$	Pre-arcng $I^2t$	Breaking capacity @ Nominal current	Watt Loss @ 100% $I_n$	Max. voltage drop
MI5HF25V0.1/100	G095548Q	5x20	250 V	0,1 A <sup>1</sup>	0.0035 A <sup>2</sup> s	1500 A	0.44 W	2.29 V
MI5HF25V0.125/100	H095549Q	5x20	250 V	0,125 A <sup>1</sup>	0.0039 A <sup>2</sup> s	1500 A	0.57 W	1.73 V
MI5HF25V0.16/100	J095550Q	5x20	250 V	0,16 A <sup>1</sup>	0.0055 A <sup>2</sup> s	1500 A	0.55 W	1.7 V
MI5HF25V0.2/100	Q095556Q	5x20	250 V	0,2 A <sup>1</sup>	0.016 A <sup>2</sup> s	1500 A	0.62 W	1.5 V
MI5HF25V0.25/100	R095557Q	5x20	250 V	0,25 A <sup>1</sup>	0.046 A <sup>2</sup> s	1500 A	0.73 W	1.28 V
MI5HF25V0.315/100	S095558Q	5x20	250 V	0,315 A <sup>1</sup>	0.072 A <sup>2</sup> s	1500 A	0.83 W	1.11 V
MI5HF25V0.4/100	T095559Q	5x20	250 V	0,4 A <sup>1</sup>	0.25 A <sup>2</sup> s	1500 A	0.88 W	1.13 V
MI5HF25V0.5/100	V095560Q	5x20	250 V	0,5 A <sup>1</sup>	0.17 A <sup>2</sup> s	1500 A	0.2 W	0.01 V
MI5HF25V0.63/100	W095561Q	5x20	250 V	0,63 A <sup>1</sup>	0.11 A <sup>2</sup> s	1500 A	1.65 W	1.04 V
MI5HF25V0.8/100	X095562Q	5x20	250 V	0,8 A <sup>1</sup>	0.18 A <sup>2</sup> s	1500 A	1.52 W	0.76 V
MI5HF25V1/100	Y095563Q	5x20	250 V	1 A <sup>1</sup>	0.17 A <sup>2</sup> s	1500 A	0.99 W	0.3 V
MI5HF25V1.25/100	C095567Q	5x20	250 V	1,25 A <sup>1</sup>	0.58 A <sup>2</sup> s	1500 A	0.72 W	0.2 V
MI5HF25V1.6/100	D095568Q	5x20	250 V	1,6 A <sup>1</sup>	0.89 A <sup>2</sup> s	1500 A	1.19 W	0.23 V
MI5HF25V2/100	E095569Q	5x20	250 V	2 A <sup>1</sup>	1.01 A <sup>2</sup> s	1500 A	1.17 W	0.17 V
MI5HF25V2.5/100	F095570Q	5x20	250 V	2,5 A <sup>1</sup>	2.61 A <sup>2</sup> s	1500 A	1.55 W	0.22 V
MI5HF25V3.15/100	G095571Q	5x20	250 V	3,15 A <sup>1</sup>	2.68 A <sup>2</sup> s	1500 A	1.89 W	0.19 V
MI5HF25V4/100	H095572Q	5x20	250 V	4 A <sup>1</sup>	12.9 A <sup>2</sup> s	1500 A	1.94 W	0.14 V
MI5HF25V5/100	J095573Q	5x20	250 V	5 A <sup>1</sup>	31.2 A <sup>2</sup> s	1500 A	2.16 W	0.13 V
MI5HF25V6.3/100	K095574Q	5x20	250 V	6,3 A <sup>1</sup>	79.3 A <sup>2</sup> s	1500 A	1.81 W	0.1 V
MI5HF25V8/100	J085407Q	5x20	250 V	8 A <sup>2</sup>	86.7 A <sup>2</sup> s	1500 A	3.08 W	0.13 V
MI5HF25V10/100	K085408Q	5x20	250 V	10 A <sup>2</sup>	204.4 A <sup>2</sup> s	1500 A	3.06 W	0.1 V
MI5HF25V12.5	G210341	5x20	250 V	12,5 A <sup>2</sup>	433.3 A <sup>2</sup> s	1500 A	3.22 W	0.87 V
MI5HF25V16	H210342	5x20	250 V	16 A <sup>2</sup>	930.6 A <sup>2</sup> s	1500 A	2.9 W	0.68 V
MI5HF25V20	J210343	5x20	250 V	20 A <sup>2</sup>	-	1500 A	-	-

<sup>1</sup>No Semko Approval

<sup>2</sup>Set of 50

### 5X20 Fast Acting 5HF - Set of 1000

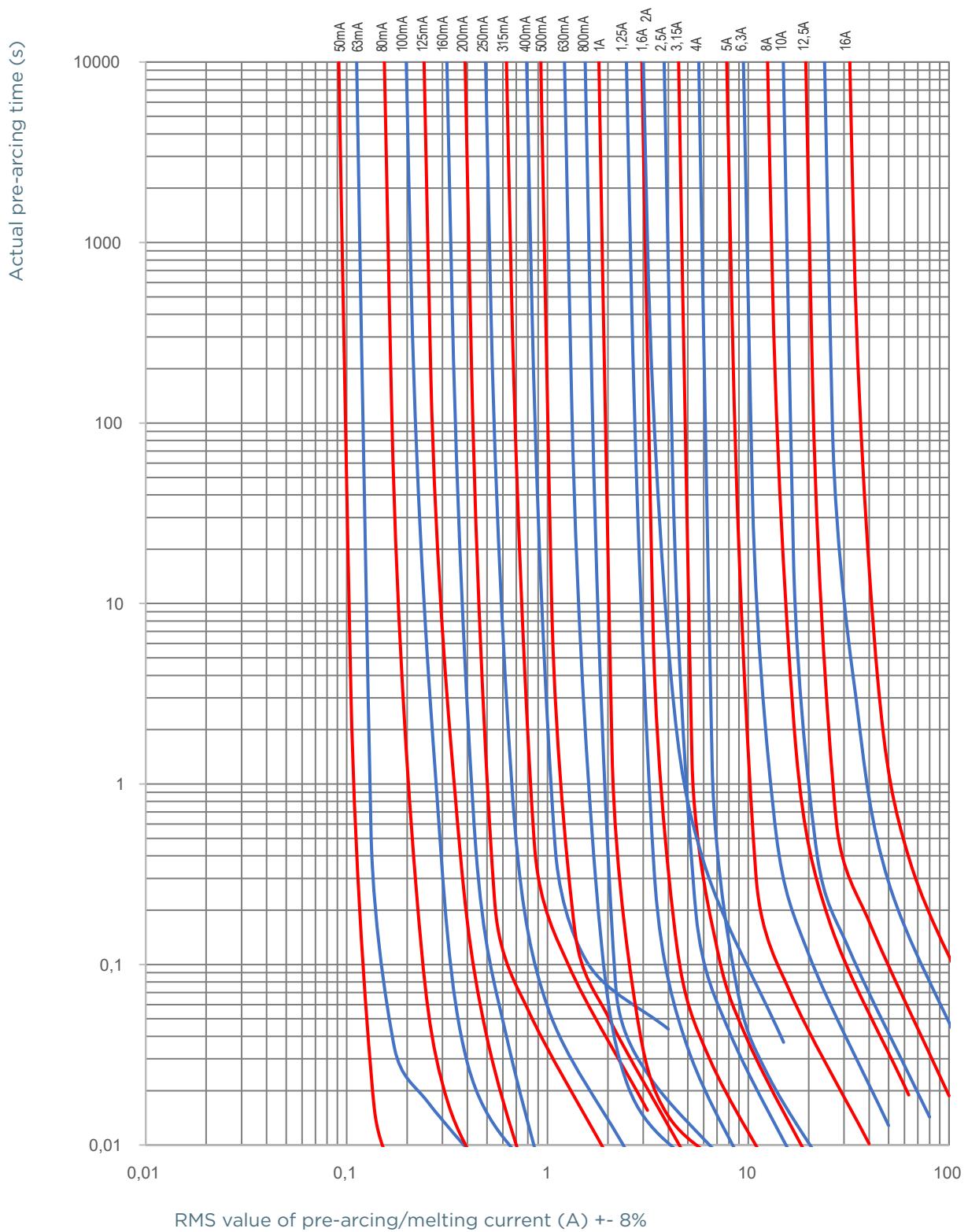
Catalog number	Item number	Size	Rated voltage	Rated current $I_n$	Pre-arcng $I^2t$	Breaking capacity @ Nominal current	Watt Loss @ 100% $I_n$	Max. voltage drop
MI5HF25V0.16/1000	J095550T	5x20	250 V	0,16 A	0.0055 A <sup>2</sup> s	1500 A	0.55 W	1.7 V
MI5HF25V0.25/1000	R095557T	5x20	250 V	0,25 A	0.046 A <sup>2</sup> s	1500 A	0.732 W	1.28 V
MI5HF25V0.315/1000	R095557T	5x20	250 V	0,315 A	0.072 A <sup>2</sup> s	1500 A	0.829 W	1.11 V

### 5X20 Fast Action 5HF - Assortment Box

Catalog number	Item number	Size	Rated voltage	Rated current $I_n$
MIBOX5HF	B229863	5x20	250 V	0,1 to 6,3 A

# Fuses 5x20 - Quick acting - 5HF

## TIME CURRENT CHARACTERISTIC CURVES



# Fuses 5x20 - Quick acting - 5HF

## TECHNICAL CHARACTERISTICS

### In - t characteristics

Rated current factor		Melting time :		
		50 mA - 3,15 A	4A - 10A	12,5 A - 16 A
1,5 - In	tmin	60 min	60 min	60 min
	tmax	-	-	-
2,1 - In	tmin	0	0	0
	tmax	30 min	30 min	30 min
2,75 - In	tmin	10 ms	10 ms	40 ms
	tmax	2 s	3 s	20 s
4 - In	tmin	3 ms	3 ms	10 ms
	tmax	300 ms	300 ms	1 s
10 - In	tmin	0	0	0
	tmax	20 ms	20 ms	30 ms

## CLASS CC FUSE BLOCK, 4 POLES

TAGS: BLOCK

# Midget & Class CC

600 Volt Fuse Blocks

### FUSE BLOCKS & HOLDERS

### 600 VOLT MIDGET AND CLASS CC FUSE BLOCKS



F  
B

Mersen midget fuse blocks accommodate all 30 ampere 1-1/2" x 13/32" midget fuses. Class CC fuse blocks accommodate all 30 ampere Class CC fuses. A choice of box, screw, or pressure-plate connectors fit a wide range of stranded or solid copper wire. Insulators are glass-filled polycarbonate (GFPC) with verified dielectric strength in excess of 2500V. Fuse blocks feature a unique adder block which can be snapped onto 1-, 2- or 3-pole blocks to form multi-pole segmented blocks of as many poles as desired. All fuse clips are made of high conductivity tin-plated copper alloy.

### RECOMMENDED FUSE USAGE:

- **Midget Fuse Block** use with ATQ, ATM, A6Y-2B, A25Z-2, TRM, OTM, A15QS-2, GFN, GGU, A60Q-2, DCT
- **Class CC Fuse Block** use with ATDR, ATMR, ATQR

### CLIP & CONNECTOR TYPES

30A MIDGET/CC			
COPPER BOX CONNECTOR	SCREW WITH DOUBLE QUICK-CONNECTS	PRESSURE PLATE WITH DOUBLE QUICK-CONNECTS	PRESSURE PLATE WITH DOUBLE QUICK-CONNECTS (CLASS CC REJECTION END)

### RATINGS:

#### Midget Block

- **Volts:** 600VAC / DC
- **Amps:** 30A Maximum
- **SCCR:** 100kA (depending on fuse I.R.); 10kA (when using quick connect terminal)

#### Class CC Block

- **Volts:** 600VAC / DC
- **Amps:** 30A Maximum
- **SCCR:** 200kA, 10kA (when using quick connect terminal)

Temperature/flammability GFPC insulators rated 125°C, 94V-O flammability.

### APPROVALS:

All fuse blocks meet the requirements of UL 4248

#### Midget Block

- UL recognized component guide IZLT2, File E52283
- CSA certified class 6225, File 32169

#### Class CC Block

- UL listed, guide IZLT, File E52283
- CSA certified class 6225, File 32169



## 600 VOLT, 30A MIDGET AND CLASS CC FUSE BLOCKS

Connector Type	Wire Range	Poles*	Catalog No.	Midget Listing	Class CC Listing	Torque In - lb
Screw w/ double quick connects at both ends	Cu #10-14	ADDER	30310	UL Rec. & CSA	30310R	20
		1	30311		30311R	
		2	30312		30312R	
		3	30313		30313R	
		4	30314		30314R	
Pressure plate (sems) w/double quick connects at both ends	Cu #10-14	ADDER	30320	UL Rec. & CSA	30320R	20
		1	30321		30321R	
		2	30322		30322R	
		3	30323		30323R	
		4	30324		30324R	
Copper box	Cu #6-14	ADDER	30350	UL Rec. & CSA	30350R	35
		1	30351		30351R	
		2	30352		30352R	
		3	30353		30353R	
		4	30354		30354R	

Note: To convert Midget or Class CC adder pole to single pole, use end barrier #U09301.

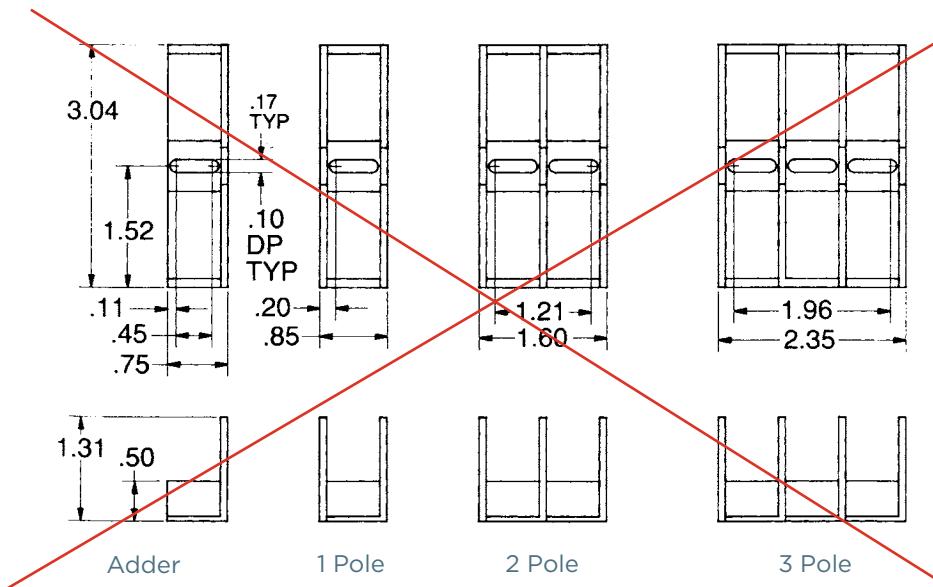
\* Available in any number of poles. Replace last digit in Catalog Number with number of poles needed.

Example: 303112 is a 12-pole screw/double QC connector Midget Fuse Block.

Total width of N poles = (N x .76) + .08 inches. 12 poles = (12 x .76") + .08" = 9.20".

Recommended mounting screws for all Midget and Class CC fuse blocks: #8 (.164" dia.)

## DIMENSIONS

F  
B

# UT 4-HESILA 250 (5X20) - Fuse modular terminal block

TAGS: FU0406

3046100

<https://www.phoenixcontact.com/us/products/3046100>



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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 250 V, nominal current: 6.3 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- An extremely compact design
- Test pick-off on both sides in the fuse lever
- Tested for railway applications

# UT 4-HESILA 250 (5X20) - Fuse modular terminal block



3046100

<https://www.phoenixcontact.com/us/products/3046100>

## Technical data

### Notes

General	The current is determined by the fuse used, the voltage by the selected LED. If the fuse is faulty, the downstream circuit will not be disconnected.
---------	---

### Product properties

Product family	UT
Area of application	Railway industry Machine building Plant engineering
Number of connections	2
Number of rows	1
Potentials	1

### Insulation characteristics

Overtoltage category	III
Degree of pollution	3

### Electrical properties

Fuse type	Glass / ceramics / ...
Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	1.02 W
Fuse	G / 5 x 20
LED voltage range	110 V AC/DC ... 250 V AC/DC
LED current range	0.41 mA ... 0.96 mA
Maximum power dissipation	max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload) max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload) max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit) max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit)

### Input data

LED voltage range	110 V AC/DC ... 250 V AC/DC
-------------------	-----------------------------

### Connection data

Number of connections per level	2
Nominal cross section	4 mm <sup>2</sup>
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm

# UT 4-HESILA 250 (5X20) - Fuse modular terminal block



3046100

<https://www.phoenixcontact.com/us/products/3046100>

Stripping length	9 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-3
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	26 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 10 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with same cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Nominal cross section	4 mm <sup>2</sup>
Nominal current	6.3 A
Maximum load current	6.3 A (the current is determined by the fuse used)
Nominal voltage	250 V

## Dimensions

Width	6.2 mm
Height	57.8 mm
Depth on NS 35/7,5	75.6 mm
Depth on NS 35/15	83.1 mm

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

# UT 4-HESILA 250 (5X20) - Fuse modular terminal block



3046100

<https://www.phoenixcontact.com/us/products/3046100>

## Mechanical properties

### Mechanical data

Open side panel	No
-----------------	----

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-3
----------------------------------	---------------

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

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**Data Sheet 12**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Citel: Transient Voltage Surge Suppressor Model Number: DS43S-480</p> <p>Tags/Service: TVSS / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• 120kA total maximum discharge current</li><li>• 480VAC rated voltage</li><li>• -35-60° C ambient temperature range</li><li>• 100kA SCCR rating</li><li>• DIN rail mounting</li><li>• IP20 environmental rating</li><li>• -40/85° F operating temperature min/max</li></ul>



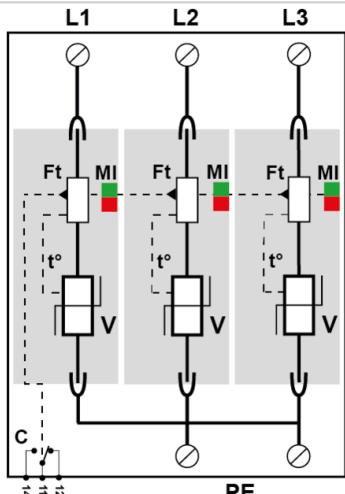
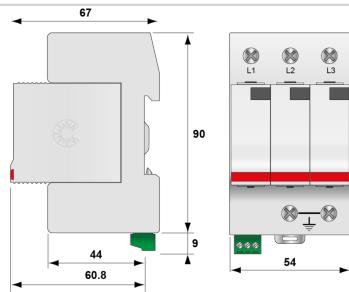
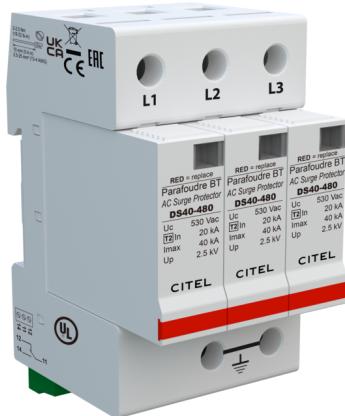
**CITEL**

UL TYPE 1 SPD - Imax 40kA - In 20kA - Modular

DS43S-480

## TRANS. VOLTAGE SURGE SUPPRESSOR

TAGS: DS43S-480



V: High-energy varistor  
Ft: Thermal fuse  
t°: Thermal disconnection system  
MI: Disconnection indicator

### Electrical Characteristics

Network	800 V 3-phase	
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	Imax Total	120 kA
Protection mode(s)		Common mode
POWER SPD TYPE		UL1449 TYPE 1 LISTED
VOLTS	(V)	480
AC/DC/DC PV/RF		AC
PHASE	(PH)	3D
AMPS	(A)	N/A
AMBIENT MIN	(C)	-35
AMBIENT MAX	(C)	+60
MODES	L-L, L-G	
VPR	(V)	4000/-/1800/-
MCOV	(V)	550/-/550/-
IN 15 impulses 8/20 $\mu$ s	(kA)	20
SCCR	(kA)	100
IMAX 8/20 $\mu$ s	(kA)	40
Imp 10/350 $\mu$ s	(kA)	4
Option		
RFI Filter	no	
Installation		
Wiring type	Screw	
Solid wire cross sectionMin	mm <sup>2</sup>	2.5000
Solid Wire cross sectionMax	mm <sup>2</sup>	35.0000
Stranded Wire cross sectionMin	mm <sup>2</sup>	2.5000
Stranded wire cross sectionMax	mm <sup>2</sup>	25.0000
Wire gaugeMin	AWG	13.0000
Wire gaugeMax	AWG	2.0000
Torque	Nm	2.0 - 2.5
Torque	in-lbs	17.8 - 22.1
Strip Length	mm	13.0000
Strip Length	in	0.5000
Operating TemperatureMin	°C	-40.0000
Operating TemperatureMax	°C	85.0000
Operating TemperatureMin	°F	-40.0000
Operating TemperatureMax	°F	85.0000
Operating Relative HumidityMax	%RH	95
Operating AltitudeMin	Ft	2000.0000
Operating AltitudeMax	Ft	6500.0000
Housing/Enclosure material		Thermoplastic
Flammability ratingUL 94		V0
Mounting		Din Rail
IP Environmental ratingIP		IP20
NEMA Environmental ratingNEMA		NEMA 1
Installation Location		Indoor
Spare part		Module
Product DimensionL	mm	99.0000
Product DimensionH	mm	67.0000
Product DimensionW	mm	54.0000
Product DimensionL	In	3.8900
Product DimensionH	In	2.6400
Product DimensionW	In	2.1300
Miscellaneous		
Individual Pack	Yes	
Storage TemperatureMin	°C	-40.0000
Storage TemperatureMax	°C	85.0000
Storage TemperatureMin	°F	-40.0000



## DS43S-480

Storage TemperatureMax	°F	85.0000
Storage Relative HumidityMax	%RH	95.0000
<b>Mechanical Characteristics</b>		
Technology		MOV
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> / by bus
Format		Plug-in modular box
Failsafe mode		Disconnection from AC network
TECHNOLOGY		MOV
NETWORK CONFIGURATION		3PH, 3W+G, Delta
CONNECTION METHOD		SPD-Screw Terminal (8-12AWG), Terminal blocks 6AWG
MOUNTING		Din Rail
MATERIAL		Thermoplastic UL94-V0
NEMA RATING (IP RATING)		NEMA 2 (IP20)
FAIL-SAFE BEHAVIOR		Disconnection via fuse-link
REAL-TIME DIAGNOSTICS		Visual indicator and remote contacts
DIMENSIONS		See diagram
WEIGHT		0.90 lbs
SPARE PART		DSM40-480
<b>Standards</b>		
Certification		UL
UL STANDARD		UL1449 5th Edition
UL CATEGORY		VZCA, VZCA7
UL FILE NUMBER		E326289
STANDARDS		NOM-003-SCFI-2014, NOM-001-SCFI-1993
ENVIRONMENTAL STANDARDS		ROHS
<b>Part number</b>		
461017		



**Data Sheet 13**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
<u>Qty</u>	<u>Description</u>
1	<p>Mfg: Schneider Electric: Reduced Voltage Soft Starter Model Number: ATS490D17Y</p> <p>Tags/Service: RVSS / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"><li>• Soft starter for asynchronous motors</li><li>• 480VAC power supply voltage</li><li>• Normal duty, 17A rated operational current</li><li>• Heavy duty, 12A rated operation current</li><li>• IP20 degree of protection</li><li>• 7.5kW/5.5kW in motor supply line for normal/heavy duty</li><li>• 10/7.5 maximum horsepower rating for normal/heavy duty operation</li><li>• 120VAC control circuit voltage</li></ul>

# Product data sheet REDUCED VOLTAGE SOFT STARTER

Specifications

TAGS: RVSS



Soft starter, Altivar Soft Starter  
ATS490, 17A, 208 to 690V AC,  
control supply 110 to 230V AC

ATS490D17Y

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Altivar Soft Starter ATS490
Product or Component Type	Soft starter
Product destination	Asynchronous motors
Product Specific Application	Process and infrastructures
Device short name	ATS490
Phase	3 phase
Utilisation category	AC-3A AC-53A
Ue power supply voltage	208...690 V AC - 15...10 %)
power supply frequency	50...60 Hz - 20...20 %
[Ie] rated operational current	Normal duty 17 A in line 104 °F (40 °C))
Service factor at Ie	100
rated current in heavy duty	12 A at 104 °F (40 °C) heavy duty
IP Degree of Protection	IP20
Motor power kW	<p>4 kW 230 V in the motor supply line normal duty 7.5 kW 400 V in the motor supply line normal duty 7.5 kW 440 V in the motor supply line normal duty 9 kW 500 V in the motor supply line normal duty 9 kW 525 V in the motor supply line normal duty 11 kW 660 V in the motor supply line normal duty 15 kW 690 V in the motor supply line normal duty 3 kW 230 V in the motor supply line heavy duty 5.5 kW 400 V in the motor supply line heavy duty 5.5 kW 440 V in the motor supply line heavy duty 7.5 kW 500 V in the motor supply line heavy duty 7.5 kW 525 V in the motor supply line heavy duty 9 kW 660 V in the motor supply line heavy duty 11 kW 690 V in the motor supply line heavy duty 7.5 kW 230 V to the motor delta terminals normal duty 15 kW 400 V to the motor delta terminals normal duty 5.5 kW 230 V to the motor delta terminals heavy duty 11 kW 400 V to the motor delta terminals heavy duty</p> <p>→ →</p>
Maximum Horse Power Rating	3-hp-208 V normal duty 5-hp-230 V normal duty 10 hp 460 V normal duty 15-hp-575 V normal duty 2-hp-208 V heavy duty 3-hp-230 V heavy duty 7.5 hp 460 V heavy duty 10-hp-575 V heavy duty
With safety function Safe torque off (STO)	True
Safe Torque Off (STO)	STO (safe torque off): SIL 1 conforming to IEC 61508 STO (safe torque off): PL c/category 2 conforming to ISO 13849
Cybersecurity functions	True

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Cybersecurity level and standard</b>	Security level (SL) 1 IEC 62443-4-2
<b>Communication Port Protocol</b>	Modbus serial Modbus TCP/EtherNet/IP
<b>Option card</b>	Communication module CANopen daisy chain <del>Communication module CANopen Sub-D</del> <del>Communication module CANopen open style</del> <del>Communication module Profibus DP V1</del> Communication module PROFINET

## Complementary

<b>Device connection</b>	In the motor supply line Inside delta
<b>Overload current profile</b>	400 % $I_e$ for 13 s
<b>On-load factor</b>	50 %
<b>Operating cycles/hour</b>	10 cyc/h
<b>[Us] control circuit voltage</b>	110...230 V AC 50-60 Hz - 15...10 %
<b>Apparent power</b>	70 VA
<b>Integrated motor overload protection</b>	True
<b>motor thermal protection class</b>	Class 10E
<b>Protection type</b>	Phase failure mains Thermal protection starter Thermal protection motor Current overload motor Motor underload motor Excessive acceleration time motor Motor phase loss detection motor Protection against line phase inversion mains External thermal protection motor Protection delta inside wiring starter Short-circuit between motor phase and earth motor
<b>current limiting %In (5 x <math>I_e</math> maximum)</b>	150...700 %
<b>[In] Rated current pwr loss specifctn</b>	17 A
<b>Power loss static current independent</b>	19 W
<b>Power loss per device current dependent</b>	2 W
<b>Power loss during starting</b>	202 W during starting at 40 °C at 400% $I_e$
<b>Standards</b>	EN/IEC 60947-4-2 UL 60947-4-2 IEC 60664-1
<b>Product Certifications</b>	CE cULus UKCA RCM CCC DNV ATEX EAC KC
<b>Marking</b>	CE cULus UKCA RCM CCC ATEX EAC KC
<b>[Uc] control circuit voltage</b>	24 V DC

<b>Discrete input number</b>	5
<b>Discrete input type</b>	DI1) digital input, 4.4 kOhm DI2) digital input, 4.4 kOhm DI3) digital input, 4.4 kOhm DI4) digital input, 4.4 kOhm STO) digital input, > 1 kOhm
<b>Input compatibility</b>	DI1 discrete input level 1 PLC EN/IEC 61131-2 DI2 discrete input level 1 PLC EN/IEC 61131-2 DI3 discrete input level 1 PLC EN/IEC 61131-2 DI4 discrete input level 1 PLC EN/IEC 61131-2 STO discrete input level 1 PLC EN/IEC 61131-2
<b>Discrete input logic</b>	Digital input DI1 0...< 5 V <= 2 mA > 11 V, >= 5 mA Digital input DI2 0...< 5 V <= 2 mA > 11 V, >= 5 mA Digital input DI3 0...< 5 V <= 2 mA > 11 V, >= 5 mA Digital input DI4 0...< 5 V <= 2 mA > 11 V, >= 5 mA Digital input STO 0...< 5 V <= 2 mA > 11 V, >= 5 mA
<b>Relay output number</b>	3
<b>Relay output type</b>	Relay outputs R1A, R1C NO Relay outputs R2A, R2C NO Relay outputs R3A, R3C NO
<b>Minimum switching current</b>	100 mA 12 V DC relay outputs
<b>Maximum switching current</b>	Relay outputs 2 A / 250 V AC for AC-15 100000 cycles following IEC 60947-5-1 Relay outputs 2 A / 30 V DC for DC-13 150000 cycles following IEC 60947-5-1
<b>Discrete output number</b>	2
<b>Discrete output type</b>	Programmable digital output DQ1 <= 30 V 100 mA Programmable digital output DQ2 <= 30 V 100 mA
<b>Output compatibility</b>	Open collector level 1 PLC IEC 65A-68
<b>Analogue input number</b>	1
<b>Analogue input type</b>	AI1/PTC1 : PTC/PT 100/PT 1000/KTY84 temperature probe PTC2 : PTC/PT 100/PT 1000/KTY84 temperature probe PTC3 : PTC/PT 100/PT 1000/KTY84 temperature probe
<b>Analogue output number</b>	1
<b>Analogue output type</b>	Current output AQ1 : 0...20 mA/4...20 mA , impedance< 500 Ohm Voltage output AQ1 : 0...10 V , impedance> 470 Ohm
<b>Communication port protocol</b>	Modbus serial Modbus TCP/EtherNet/IP
<b>Connector type</b>	1 RJ45 for connecting Modbus serial 1 RJ45 for connecting Modbus TCP/EtherNet/IP
<b>Physical interface</b>	2-wire RS 485 100-BASE-TX category 5 or industrial Ethernet
<b>Transmission frame</b>	RTU TCP/UDP
<b>Transmission Rate</b>	4.8...38.4 kbps 100 BASE TX
<b>Data format</b>	8 bits, configurable odd, even or no parity 1or 2 stop
<b>Number of addresses</b>	0...247 Modbus serial
<b>Method of access</b>	Slave Modbus serial
<b>Type of polarization</b>	No impedance Modbus serial
<b>Display screen available</b>	True
<b>Operating position</b>	Vertical +/- 10 degree
<b>Height</b>	11.1 in (283 mm)
<b>Width</b>	6.3 in (160 mm)

<b>Depth</b>	7.3 in (185 mm)
<b>Net Weight</b>	8.8 lb(US) (4 kg)
<b>internal bypass</b>	True
<b>Function Available</b>	Pre-heating Smoke extraction Second motor set Deceleration with torque control Braking Boost Line contactor control Reverse contactor control Anti-jam Jog Borehole pump starting Condition monitoring Power monitoring Cybersecure firmware update
<b>material declaration</b>	True

## Environment

<b>Electromagnetic compatibility</b>	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-18 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5 Immunity to conducted interference caused by radio-electrical fields level 3 conforming to EN/IEC 61000-4-6
<b>Pollution degree</b>	Level 3
<b>[Ui] rated impulse withstand voltage</b>	6 kV
<b>[Ui] Rated Insulation Voltage</b>	690 V
<b>Environmental class (during operation)</b>	Class 3C3 according to IEC 60721-3-3 Class 3S3 according to IEC 60721-3-3
<b>Ambient air temperature for operation</b>	-13...104 °F (-25...40 °C) (without derating) 104...140 °F (40...60 °C) (with current derating 1 % per °C above 40 °C)
<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>Ambient air transport temperature</b>	-40...158 °F (-40...70 °C)
<b>Operating altitude</b>	<= 6561.68 ft (2000 m) without derating > 2000...4800 m with current derating 1 % per 100 m above 2000 m
<b>Relative humidity</b>	5...95 % without condensation or dripping water EN/IEC 60068-2-3
<b>Maximum deflection under vibratory load (during operation)</b>	1.5 mm at 2...13 Hz
<b>Maximum deflection under vibratory load (during storage)</b>	1.75 mm at 2...9 Hz
<b>Maximum deflection under vibratory load (during transport)</b>	1.75 mm at 2...9 Hz
<b>Maximum acceleration under vibrational stress (during operation)</b>	1 gn at 13...200 Hz
<b>Maximum acceleration under vibratory load (during storage)</b>	1 gn at 9...200 Hz 1.5 gn at 200...500 Hz
<b>Maximum acceleration under vibratory load (during transport)</b>	1 gn at 9...200 Hz 1.5 gn at 200...500 Hz
<b>Maximum acceleration under shock impact (during operation)</b>	15 gn at 11 ms
<b>Maximum acceleration under shock load (during storage)</b>	10 gn at 11 ms
<b>Maximum acceleration under shock load (during transport)</b>	10 gn at 11 ms

## Ordering and shipping details

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Category	US1CP1G22588
Discount Schedule	CP1G
GTIN	3606486948750
Returnability	Yes
Country of origin	ID

## Packing Units

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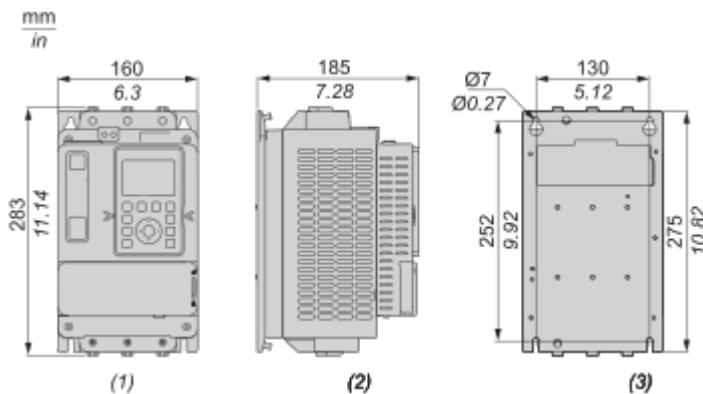
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.055 in (23.000 cm)
Package 1 Width	9.055 in (23.000 cm)
Package 1 Length	14.173 in (36.000 cm)
Package weight(Lbs)	11.199 lb(US) (5.080 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	8
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	111.334 lb(US) (50.500 kg)

## Contractual warranty

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Warranty (in months)	18
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## Dimensions Drawings

Dimensions

(1) : Front

(2) : Side

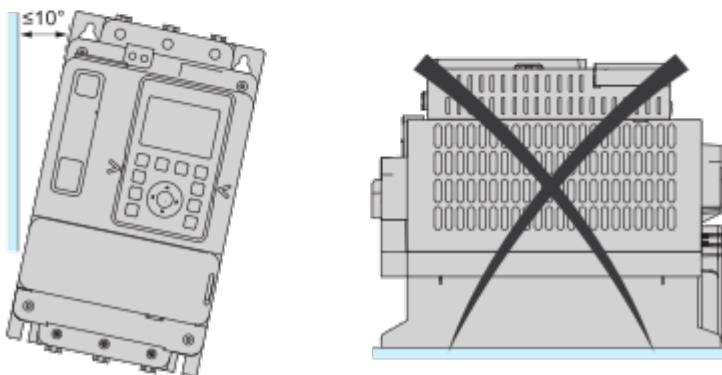
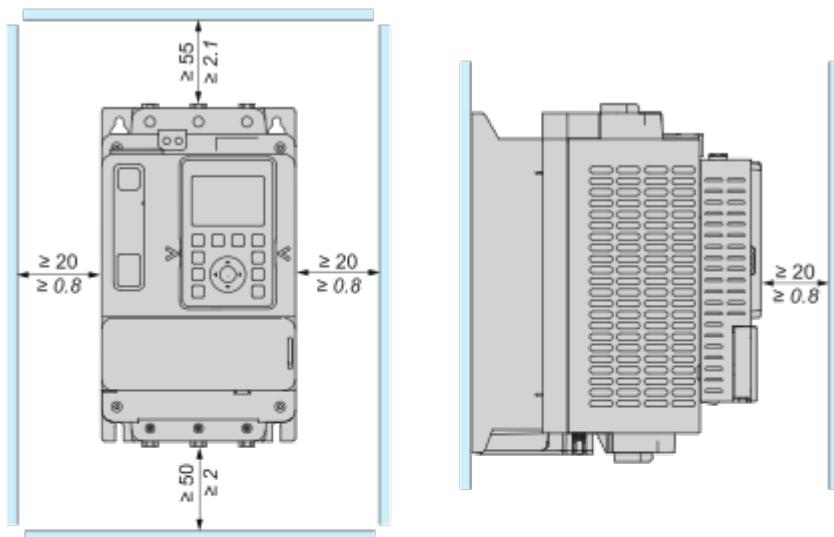
(3) : Rear

## Mounting and Clearance

**Mounting Position**

The soft starter is designed to be mounted inside cabinets vertically at  $\pm 10^\circ$  for cooling purposes. Respect the minimum clearances so that the cooling air can circulate from the bottom to the top of the soft starter. The minimum clearances apply to any device close to the soft starter such as circuit breakers, fuses and contactors. Do not install the soft starter above heating elements.

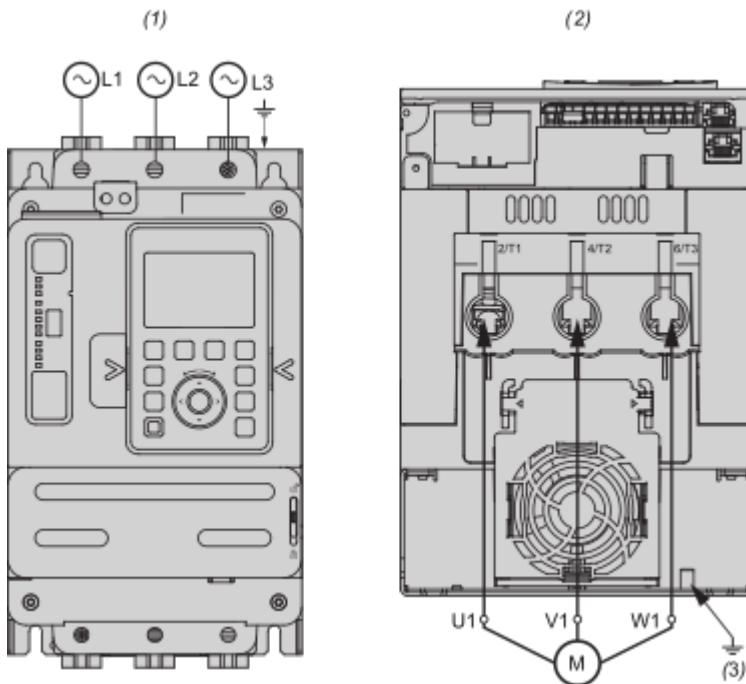
mm  
in



## Connections and Schema

Wiring

## Wiring the Power Part



Use class C cables for the power connections.

1/L1, 3/L2, 5/L3 : Mains supply inputs

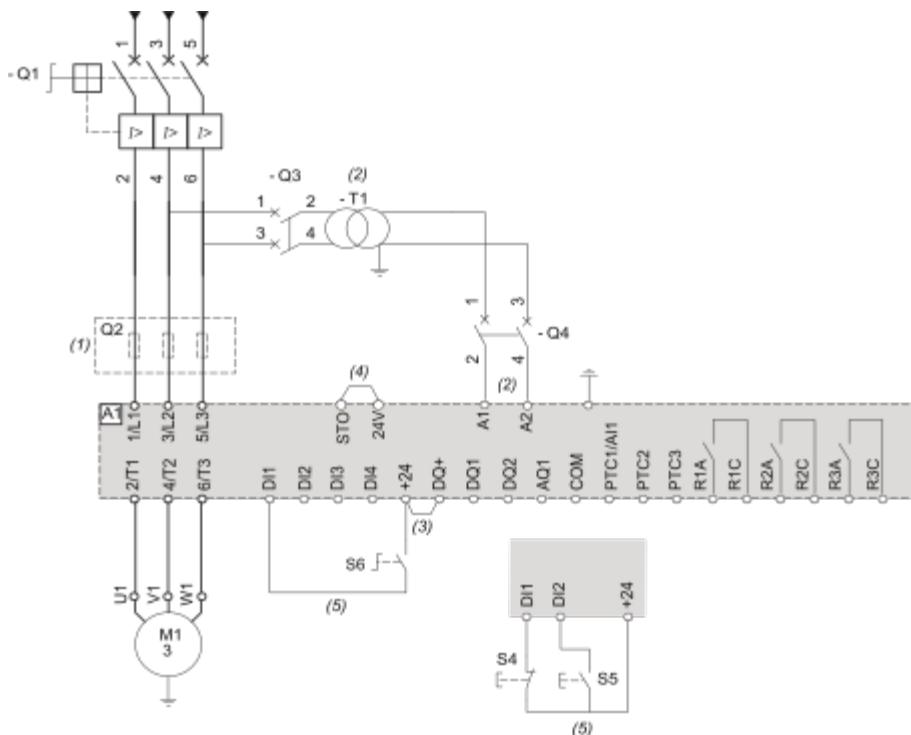
2/T1, 4/T2, 6/T3 : Outputs to motor

(1) : Mains side

(2) : Motor side (bottom)

(3) : Ground connection

**Connection In Line, No Line Contactor, Type 1 or 2 Coordination, 2-wire or 3-wire control**



(1) : Installation of additional fast-acting fuses is mandatory to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : The transformer must supply 110...230 Vac +10% - 15%, 50/60Hz.

(3) : 24Vdc supply on DQ+ if usage of DQ outputs.

(4) : STO Safe Torque Off

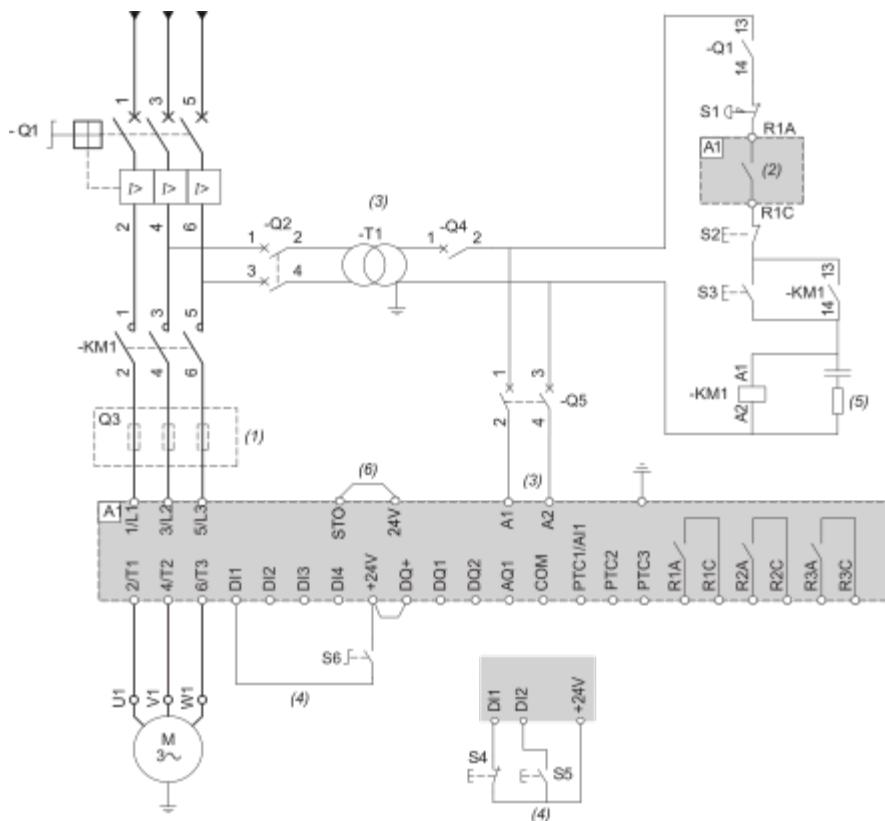
(5) : 3-wire control and 2-wire control.

Designation	Component	Description
Q1	Circuit breaker	Short circuit protection device for the motor
Q2	Fast acting fuses	Short circuit protection device of the soft starter to be used only when type 2 coordination
Q3	Circuit breaker	Short circuit protection device for the primary of the transformer
Q4	Circuit breaker	Short circuit protection device for the secondary of the transformer
S4	Normally close contact push- button	STOP command for 3-wire control
S5	Normally open contact push- button	RUN command for 3-wire control
S6	Selector switch, 2 positions, stay-put, normally open contact	RUN/STOP command for 2-wire control

#### Connection In Line, With Line Contactor, Type 1 or 2 Coordination, 2-wire or 3-wire control

Line contactor controlled by Power ON and Power OFF push-buttons or on detected error

Use relay output R1 set to [Operating State Fault] (factory setting)



(1) : Installation of additional fast-acting fuses is mandatory to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : Take into account the electrical characteristics of the relays.

(3) : The transformer must supply 110...230 Vac +10% - 15%, 50/60Hz.

(4) : 3-wire control and 2-wire control.

(5) : Select the appropriate voltage surge suppressor.

(6) : STO Safe Torque Off

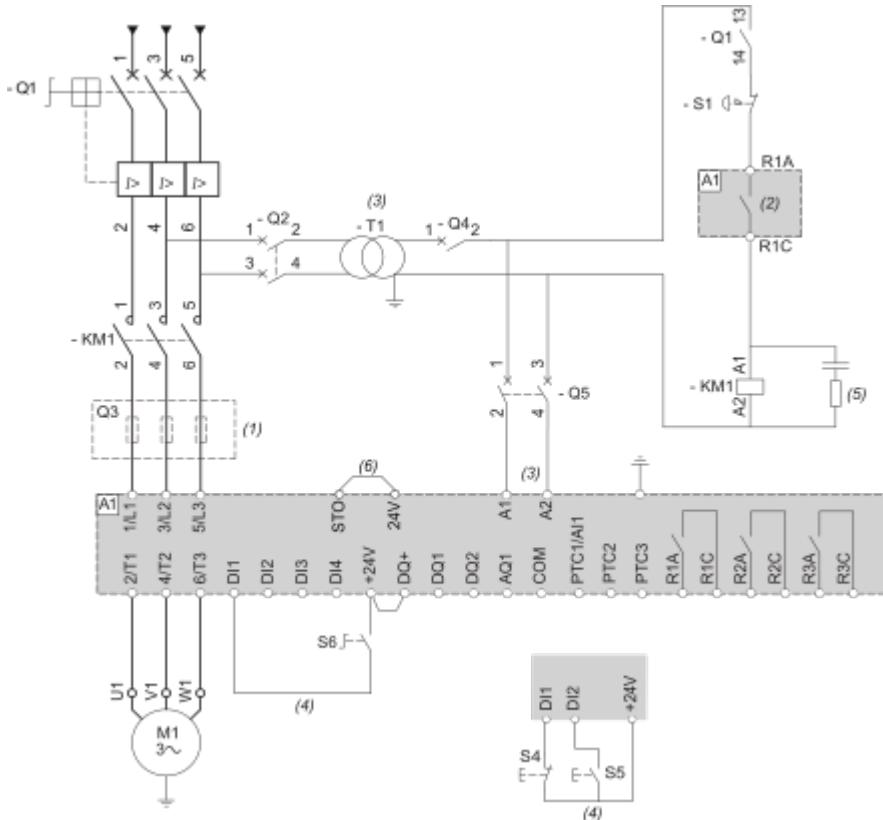
Designation	Component	Description
Q1	Circuit breaker	Short circuit protection device for the motor
Q2	Circuit breaker	Short circuit protection device for the primary of the transformer
Q3	Fast acting fuses	Short circuit protection device of the soft starter to be used only when type 2 coordination
Q4	Circuit breaker	Short circuit protection device for the secondary of the transformer
Q5	Circuit breaker	Short circuit protection device for the control part of the soft starter
KM1	Contactor	Line contactor
S1	Emergency Stop push-button	Emergency Stop to de-energized KM1 line contactor
S2	Normally close push-button	Power OFF
S3	Normally open push-button	Power ON
S4	Normally close contact push-button	STOP command for 3-wire control

S5	Normally open contact push-button	RUN command for 3-wire control
S6	Selector switch, 2 positions, stay-put, normally open contact	RUN/STOP command for 2-wire control

### Connection In Line, With Line Contactor, Type 1 or 2 Coordination, 2-wire control

Line contactor controlled based on RUN & STOP or on detected error.

Use relay output R1 set to [Mains Contactor]



(1) : Installation of additional fast-acting fuses is mandatory to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : Take into account the electrical characteristics of the relays.

(3) : The transformer must supply 110...230 Vac +10% - 15%, 50/60Hz.

(4) : 2-wire control and 3-wire control.

(5) : Select the appropriate voltage surge suppressor.

(6) : STO Safe Torque Off.

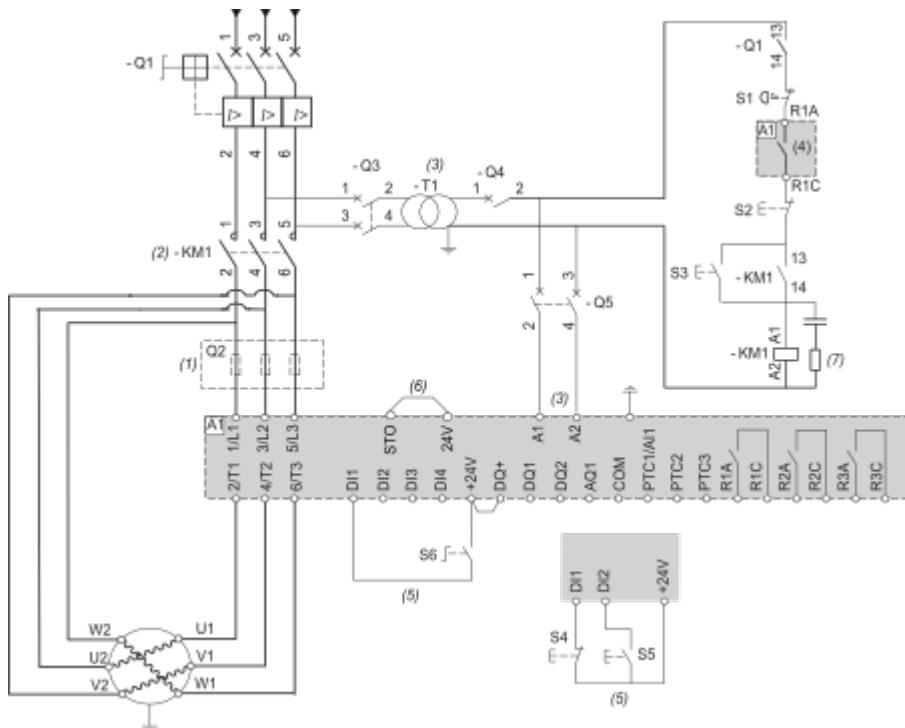
Designation	Component	Description
Q1	Circuit breaker	Short circuit protection device for the motor
Q2	Circuit breaker	Short circuit protection device for the primary of the transformer
Q3	Fast acting fuses	Short circuit protection device of the soft starter to be used only when type 2 coordination according to IEC 60947-4-2 is required
Q4	Circuit breaker	Short circuit protection device for the secondary of the transformer
Q5	Circuit breaker	Short circuit protection device for the control part of the soft starter

KM1	Contactor	Line contactor
S1	Emergency Stop push-button	Emergency Stop to de-energized KM1 line contactor
S4	Normally close contact push-button	STOP command for 3-wire control
S5	Normally open contact push-button	RUN command for 3-wire control
S6	Selector switch, 2 positions, stay-put, normally open contact	RUN/STOP command for 2-wire control

### Connection Inside the Delta, Type 1 and 2 Coordination, 2-wire or 3-wire

Line contactor controlled based on RUN and STOP command or detected error

Use relay output R1 set to [Operating State Fault] (factory setting).



(1) : Installation of additional fast-acting fuses is mandatory to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : KM1 is mandatory to avoid uncontrolled voltage on the motor.

(3) : The transformer must supply 110...230 Vac +10% — 15%, 50/60Hz.

(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor.

(5) : 3-wire control, 2-wire control.

(6) : STO Safe Torque Off.

(7) : Select the appropriate voltage surge suppressor.

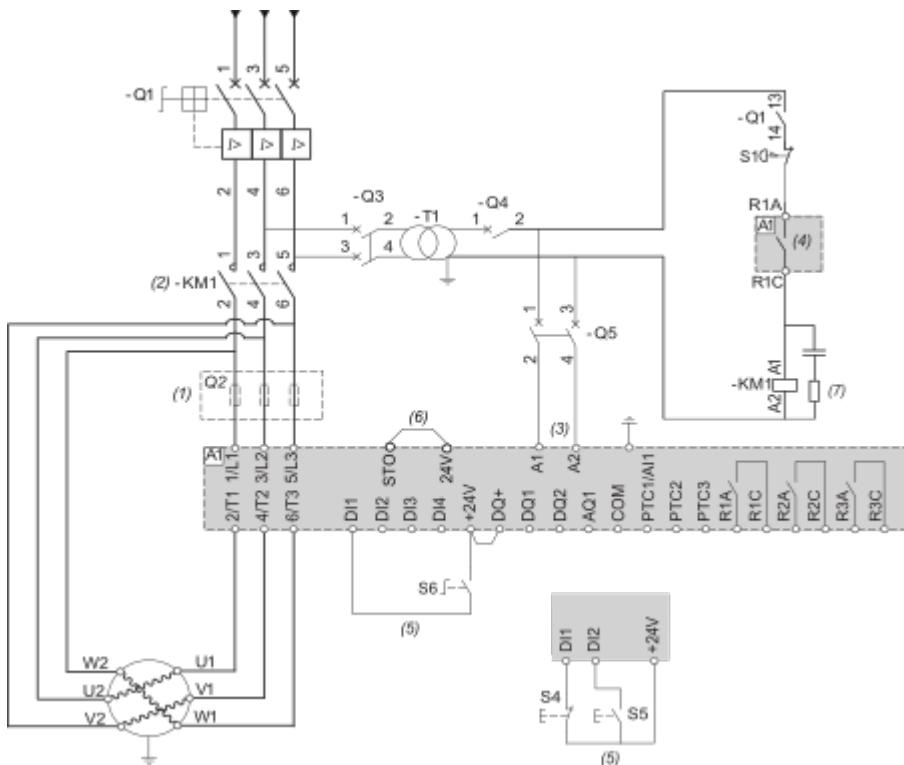
Designation	Component	Description
Q1	Circuit breaker	Short circuit protection device for the motor
Q2	Fast acting fuses	Short circuit protection device of the soft starter to be used only when type 2 coordination according to IEC 60947-4-2 is required
Q3	Circuit breaker	Short circuit protection device for the primary of the transformer

Q4	Circuit breaker	Short circuit protection device for the secondary of the transformer
Q5	Circuit breaker	Short circuit protection device for the control part of the soft starter
KM1	Contactor	Line contactor
S1	Emergency Stop push-button	Emergency Stop to de-energized KM1 line contactor
S2	Normally close push-button	Power OFF
S3	Normally open push-button	Power ON
S4	Normally close contact push-button	STOP command for 3-wire control
S5	Normally open contact push-button	RUN command for 3-wire control
S6	Selector switch, 2 positions, stay-put, normally open contact	RUN/STOP. command for 2-wire control

#### Connection Inside the Delta, Type 1 or 2 Coordination, 2-wire or 3-wire

Line contactor controlled based on RUN and STOP command or detected error

Use relay output R1 set to [Mains Contactor]



(1) : Installation of additional fast-acting fuses is mandatory to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : KM1 is mandatory to avoid uncontrolled voltage on the motor.

(3) : The transformer must supply 110...230 Vac +10% — 15%, 50/60Hz.

(4) : Take into account the electrical characteristics of the relays.

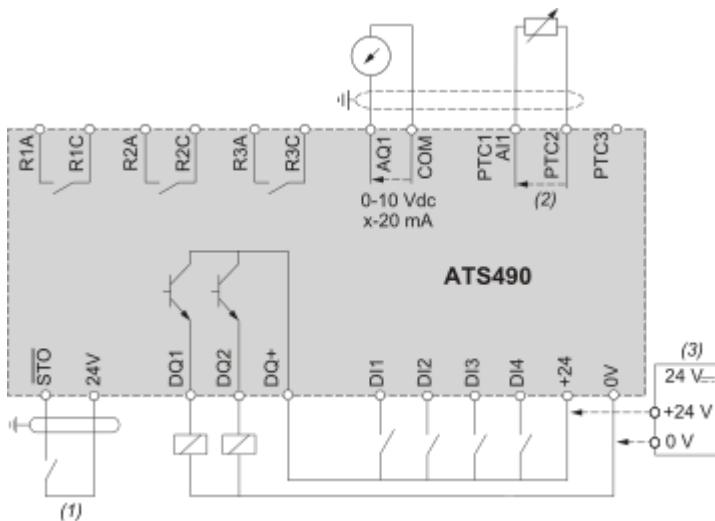
(5) : 3-wire control and 2-wire control.

(6) : STO Safe Torque Off.

(7) : Select the appropriate voltage surge suppressor.

Designation	Component	Description
Q1	Circuit breaker	Short circuit protection device for the motor
Q2	Circuit breaker	Short circuit protection device for the primary of the transformer
Q3	Fast acting fuses	Short circuit protection device of the soft starter to be used only when type 2 coordination
Q4	Circuit breaker	Short circuit protection device for the secondary of the transformer
Q5	Circuit breaker	Short circuit protection device for the control part of the soft starter
KM1	Contactor	Line contactor
S1	Emergency Stop push-button	Emergency Stop to de-energized KM1 line contactor
S4	Normally close contact push-button	STOP command for 3-wire control and power Off
S5	Normally open contact push-button	RUN command for 3-wire control and power On
S6	Selector switch, 2 positions, stay-put, normally open contact	RUN/STOP command for 2-wire control

### Control Block Wiring Diagram



R1A, R1C, R2A, R2C, R3A, R3C : Programmable NO relays

DI1, DI2, DI3, DI4 : Digital inputs

AQ1 : Analogue output

PTC1/A1, PTC2, PTC3 : Motor thermal sensor connection

DQ1, DQ2, DQ+ : Digital outputs

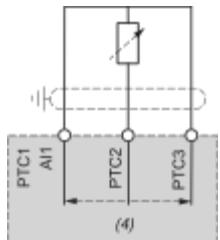
STO : Safety function STO input

(1) : STO Safe Torque Off

(2) : 2 wire PTC/PT100/PT1000/KTY

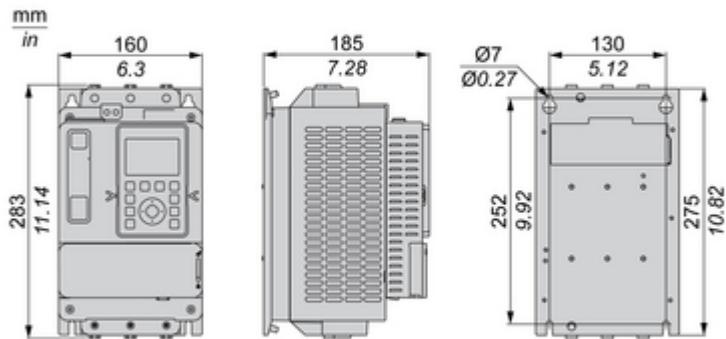
(3) : Optional, in case of +24 External Supply usage

PT100, PT1000 Thermal Probe 3 Wires :



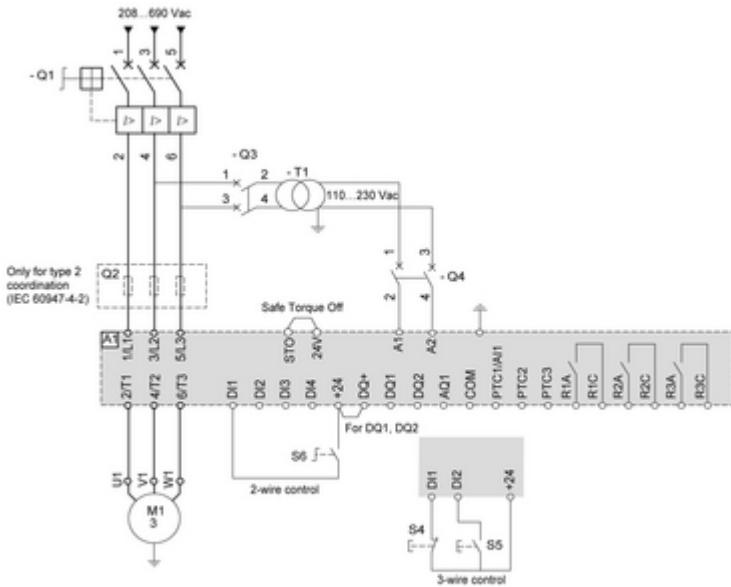
(4) : 3 wire PT100/PT1000

## Technical Illustration

**Dimensions**

## Technical Illustration

## Wiring diagram



## Data Sheet 14

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Socomec: Modbus Power Meter Model Number: 48290000</p> <p>Tags/Service: PWS0306 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Modbus RTU communication protocols</li> <li>• RS485 communication ports</li> <li>• 50-300VAC max voltage (phase/neutral)</li> <li>• 14-158° F operating temperature</li> <li>• 2 digital inputs</li> <li>• 4 voltage and current measurement inputs</li> <li>• IP20 degree of protection on front side</li> </ul>
1	<p>Mfg: Socomec: Digital I/O Power Meter Module Model Number: 48290030</p> <p>Tags/Service: PWS0306 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Digital input/output module for DIRIS B power meter</li> <li>• Provides 2 digital inputs and 2 digital outputs</li> <li>• -4-122° F operating temperature</li> </ul>
3	<p>Mfg: Socomec: Split Core TR-14 Sensor, 40-160A Model Number: 48290556</p>

	<p>Tags/Service: PWS0306 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• TR-14 split-core current sensors for DIRIS B power monitoring devices</li> <li>• Attachable current transformer</li> <li>• 40-160A rated current</li> <li>• RJ12 connection type</li> <li>• 300VAC max voltage (phase/neutral)</li> <li>• CAT III measurement category</li> <li>• 14-158° F operating temperature</li> </ul>
1	<p>Mfg: Socomec: RJ12 Connection Cable, 3 Count Model Number: 48290584</p> <p>Tags/Service: PWS0306 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Red, Black, Yellow cable colors</li> <li>• RJ12 connector</li> <li>• 2m cable length</li> <li>• Connection cable for TR current sensors</li> <li>• Grey color outer sheath</li> <li>• 26AWG size</li> </ul>



## MODBUS POWER METER

TAGS: PWS0306

### DIRIS B-30 RS485-MODBUS-230VAC

**48290000**

Multifunction meter DIRIS B-30 RS485 MODBUS 230VAC

#### Strong Points

- ⊕ Plug & Play
- ⊕ Better than revenue grade
- ⊕ Multi-circuits
- ⊕ Versatile

#### Function

The DIRIS B is a DIN-rail mounted power monitoring device compatible with TE/TR/iTR/TF smart current sensors, suitable for new or existing electrical installations.

The 4 independent RJ12 current inputs allow the DIRIS B to monitor 1 three-phase circuit and use a dedicated current sensor for the neutral, or 4 single-phase loads.

The DIRIS B has 2 native digital input for additional versatility and includes Modbus RTU serial communication



to connect measurement data to external management systems.

Additional digital & analog input/output modules can extend the basic functional scope of the DIRIS B. An optional display can also be plugged to the meter for local visualization on panel doors.

## CERTIFICATES AND DECLARATION

<b>Conformity to standard #1</b>	UL 61010-1 Guide PICQ File E257746
<b>Conformity to standard #2</b>	CSA-C22.2 No. 61010-1
<b>Conformity to standard #3</b>	CEC Compliant
<b>Conformity to standard #4</b>	ISO 14025
<b>Proposition 65 California</b>	WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## STANDARDS

<b>Conformity to standards</b>	<ul style="list-style-type: none"><li>• IEC</li><li>• UL</li></ul>
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## CERTIFICATES AND DECLARATION - SAFETY

<b>Safety standards</b>	IEC/EN 61010-1 UL 61010-1 CAN/CSA C22.2 No. 61010-1
<b>UL file number</b>	E257746

## GENERAL PRODUCT CHARACTERISTICS

<b>Device type</b>	Multifunction Power metering and monitoring device (PMD)
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<b>Application</b>	Analysis
<b>Communication ports</b>	RS485
<b>Communication protocols</b>	Modbus RTU
<b>Model</b>	B-30
<b>Type</b>	Power Monitoring Device

#### TECHNICAL CHARACTERISTICS - ELECTRICAL

<b>Max voltage (Phase/neutral)</b>	50-300 VAC (Ph/N)
------------------------------------	-------------------

#### TECHNICAL CHARACTERISTICS - ENVIRONMENTAL

<b>Maximum operating altitude</b>	6560 feet / 2000 m
<b>Operating temperature</b>	+14 ... +158 °F / -10 ... +70 °C
<b>PEP ecopassport - ISO 14025</b>	SOCO-2014-01-v1-fr, SOCO-2014-01-v1-en
<b>Relative humidity</b>	131 °F / 55 °C / 97% relative humidity
<b>Storage temperature</b>	-13 ... +185 °F / -25 ... +85 °C

#### TECHNICAL CHARACTERISTICS - MEASUREMENT

<b>Accuracy class</b>	Class 0.2 DIRIS B alone, Class 0.5 with TE, iTR or TF current sensors, Class 1 with TR current sensors
<b>Current measurement type</b>	AC
<b>Frequency rating</b>	45 ... 65 Hz

etering: +/- kWh, +/- kvarh, kVAh, Multi-tariff (8 max) L<sub>gadachyes</sub>

Multi-measurement: V1, V2, V3, U12, U23, U31, f,I1, I2, I3, ln,  $\Sigma P$ ,

$\Sigma Q$ ,  $\Sigma S$ ,  $\Sigma PF$ , P, Q, S, PF per phase, Predictive Power, Voltage Ph/N

unbalance, Voltage Ph/Ph unbalance, Current unbalance (Inba, Idi)

r, linv, lhom, lnb),Phi, cos Phi, tan Phi

<b>Number of Digital inputs/outputs</b>	2 Digital inputs
<b>Power Quality measurements</b>	THDv1, THDv2, THDv3, THDu12, THDu23, THDu31 ,THDi1,THDi2, THDi3, THDin ,Individual harmonics U & V (up to 63rd),Individual harmonics I (up to 63rd),Crest factor I1, I2, I3, In,Crest factor V1, V2, V3, U12, U23, U31 ,Voltage sags,interruptions,swells (EN 501 60) ,Overcurrents
<b>Voltage measurement type</b>	AC

### **Voltage measurement type**

<b>Sampling frequency [Hz]</b>	10000
<b>Number of voltage measurement inputs</b>	4
<b>Number of current measurement inputs</b>	4
<b>Voltage type (supply voltage)</b>	AC
<b>Supply voltage AC 50 Hz [V]</b>	110..230
<b>Supply voltage AC 60 Hz [V]</b>	110..230
<b>Measuring range for frequency [Hz]</b>	45..65
<b>Number of digital inputs</b>	2
<b>Supporting protocol for IEC 61850 Ethernet</b>	No
<b>Supporting protocol for OPC UA PubSub</b>	No
<b>Supporting protocol for PROFIBUS</b>	No
<b>Supporting protocol for Modbus</b>	Yes
<b>Supporting protocol for PROFINET IO</b>	No
<b>Supporting protocol for other bus systems</b>	No

With firmware signature	Yes
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With logging of security events (security event log)	No
--	----

With Role Based Access Control (RBAC)	No
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Web server with HTTPS transfer protocol	No
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#### ETIM - MECHANICAL CHARACTERISTICS

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Width [mm]	54
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Height [mm]	90
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Depth [mm]	65
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Degree of protection (IP), front side	IP20
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#### ETIM - TECHNICAL FEATURES

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Ampere meter	Yes
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Blind power meter	Yes
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With rotational speed meter	No
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Frequency meter	Yes
-----------------	-----

Pulse counter	No
---------------	----

Voltmeter	Yes
-----------	-----

Effective power measurement device	Yes
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Display	Optional
---------	----------

Remote display	Yes
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#### LOGISTICS

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GTIN/EAN	3596032773083
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Customs number	9030320000
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**Weight of the packing unit [kg]** 0.22

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**Length of the packing unit [m]** 0.135

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**Width of the packing unit [m]** 0.06

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**Depth of the packing unit [m]** 0.08

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#### PRODUCT DETAILS

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**Effective date** 2013-11-12

**Offer Life Cycle Code** 40

**Country of origin** FR

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#### CLASSIFICATION

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**UNSPSC** 83101808

**IGCC** 6042



## DIGITAL I/O POWER METER MODULE

TAGS: PWS0306

## DIRIS O-iod DIGITAL MODULE

**48290030**

Optional module DIRIS O-iod 2 digital inputs /2 digital outputs

### Strong Points

- ⊕ Flexible
- ⊕ Plug & Play

### Function

DIRIS O optional modules are plugged on the left side of DIRIS B power monitoring devices and offer additional functions such as digital or analogue inputs/outputs, temperature inputs or communication modules.

Up to 4 optional modules can be connected on the same DIRIS B power meter.

<b>Conformity to standard #1</b>	UL 61010-1 Guide PICQ File E257746
<b>Conformity to standard #2</b>	CSA-C22.2 No. 61010-1
<b>Conformity to standard #3</b>	CEC Compliant
<b>Conformity to standard #4</b>	ISO 14025
<b>Proposition 65 California</b>	<p>WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></p>

## STANDARDS

<b>Conformity to standards</b>	<ul style="list-style-type: none"> <li>• IEC</li> <li>• UL</li> </ul>
--------------------------------	---

## CERTIFICATES AND DECLARATION - SAFETY

<b>Safety standards</b>	IEC/EN 61010-1  UL 61010-1  CAN/CSA C22.2 No. 61010-1
<b>UL file number</b>	E257746

## GENERAL PRODUCT CHARACTERISTICS

<b>Device type</b>	2 digital inputs/2 digital outputs
--------------------	------------------------------------

## TECHNICAL CHARACTERISTICS

<b>In/out</b>	2 digital inputs / 2 digital outputs
<b>Model</b>	O-oid
<b>Type</b>	Optional digital input/output module for DIRIS B

<b>Operating temperature</b>	-4 ... +122°F / -20 ... +50°C
<b>Storage temperature</b>	-40 ... +158°F / -40 ... +70°C

#### TECHNICAL CHARACTERISTICS - MEASUREMENT

<b>Current measurement type</b>	AC
<b>Number of Digital inputs/outputs</b>	2 digital inputs/2 digital outputs

#### ETIM - TECHNICAL FEATURES

<b>Type of accessory/spare part</b>	Other
<b>Accessory</b>	Yes
<b>Spare part</b>	No

#### LOGISTICS

<b>GTIN/EAN</b>	3596032773106
<b>Customs number</b>	9030900000
<b>Price unit</b>	PC
<b>Weight of the packing unit [kg]</b>	0.18
<b>Length of the packing unit [m]</b>	0.076
<b>Width of the packing unit [m]</b>	0.059
<b>Depth of the packing unit [m]</b>	0.135

#### PRODUCT DETAILS

<b>Effective date</b>	2013-11-12
<b>Offer Life Cycle Code</b>	40



SPLIT CORE TR-14 SENSOR, 40-160A

TAGS: PWS0306

## SPLIT CORE CT TR-14 40-160A

**48290556**

Sensor TR-14 14mm 40-160A

### Strong Points

- ⊕ Smart sensors
- ⊕ Accurate
- ⊕ Smart

### Function

TR split-core current sensors are used with DIRIS Digiware I, DIRIS A, or DIRIS B Power Monitoring Devices to measure currents from 25 to 600 A, with the same guaranteed accuracy. The quick RJ12 connection, and the integrated intelligence prevent any wiring or configuration errors.

TR split-core sensors are placed around the live conductors without disrupting the wiring and the supply, highly convenient for retrofit applications.

<b>Conformity to standard #1</b>	UL 61010-1 Guide PICQ File E257746
<b>Conformity to standard #2</b>	CSA-C22.2 No. 61010-1
<b>Conformity to standard #3</b>	IEC 61557-12
<b>Conformity to standard #4</b>	ISO 14025
<b>Proposition 65 California</b>	WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## STANDARDS

<b>Conformity to standards</b>	<ul style="list-style-type: none"><li>• IEC</li><li>• UL</li></ul>
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## CERTIFICATES AND DECLARATION - SAFETY

<b>UL file number</b>	E257746
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## GENERAL PRODUCT CHARACTERISTICS

<b>Device type</b>	Current sensors for DIRIS A, DIRIS B & DIRIS Digiware I
--------------------	---

## TECHNICAL CHARACTERISTICS

<b>Model</b>	TR-14
<b>Opening</b>	0.55 in / 14 mm
<b>Rated current [A]</b>	40 ... 160 A
<b>Secondary rated current</b>	RJ12
<b>Function</b>	Current measurement

AC

Type of product	Split core
Internal diameter	14x15
Secondary Output	Voltage
Accuracy class	1
Type of connection	RJ12
Conformity to standards	<ul style="list-style-type: none"> <li>• IEC 61557-12</li> <li>• UL 61010</li> </ul>

Customisable	No
--------------	----

#### TECHNICAL CHARACTERISTICS - ELECTRICAL

Intermittent overload	10x In for 1s
Max voltage (Phase/neutral)	300
Rated withstand voltage	3kV

#### TECHNICAL CHARACTERISTICS - ENVIRONMENTAL

Maximum operating altitude	6560 feet / 2000 m
Measurement category	CAT III
Operating temperature	-10 ... +70 °C / +14 °F ... +158 °F (IEC 60068-2-1/IEC 60068-2-2)
Relative humidity	95% RH without condensation
Storage temperature	-25 ... +85 °C / -13 °F ... +185 °F (IEC 60068-2-1/IEC 60068-2-2)

#### TECHNICAL CHARACTERISTICS - MEASUREMENT

Accuracy class	0.5 for the global measurement chain (Associated with Digiware I, DIRIS B & DIRIS A)
Current rating range	40 ... 160 A

	100mV
<b>Current sensor type</b>	Split Core
<b>Degree of Pollution</b>	IP20 / IK06
<b>Frequency rating</b>	50/60 Hz
<b>Full measurement range</b>	0.8 ... 192 A
<b>ETIM - ELECTRICAL CHARACTERISTICS</b>	
<b>Rated primary current [A]</b>	160
<b>Rated secondary current [A]</b>	0.1
<b>Rated secondary apparent power [VA]</b>	0.1
<b>Accuracy class</b>	0.5
<b>Overcurrent limiting factor</b>	FS 10
<b>Calibrated</b>	Yes
<b>ETIM - MECHANICAL CHARACTERISTICS</b>	
<b>With contact protection</b>	Yes
<b>Height opening [mm]</b>	14..14
<b>Width opening [mm]</b>	14..14
<b>Opening diameter [mm]</b>	14
<b>Snap mounting</b>	Yes
<b>With copper rail</b>	Yes
<b>Secondary connection</b>	Plug-in connection
<b>ETIM - TECHNICAL FEATURES</b>	
<b>Model</b>	Attachable current transformer
<b>Number of primary inputs</b>	1

<b>GTIN/EAN</b>	3596033018343
<b>Customs number</b>	8504312990
<b>Price unit</b>	PC
<b>Weight of the packing unit [kg]</b>	0.842
<b>Length of the packing unit [m]</b>	0.04
<b>Width of the packing unit [m]</b>	0.12
<b>Depth of the packing unit [m]</b>	0.12

#### PRODUCT DETAILS

<b>Effective date</b>	2018-06-01
<b>Offer Life Cycle Code</b>	40
<b>Country of origin</b>	FR

#### CLASSIFICATION

<b>UNSPSC</b>	83101808
<b>IGCC</b>	6042

## References

TR split-core sensors is available in 3 versions

Show  entries



RJ12 CONNECTION CABLE, 3 COUNT

TAGS: PWS0306

## CABLE RJ12 3x2M

**48290584**

RJ12 connection cable 2m x3

### STANDARDS

---

#### Conformity to standards

- IEC
  - UL
- 

### TECHNICAL CHARACTERISTICS

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Height [mm]	2000
Color	Red, Black, Yellow
Connector	RJ12
Length	2 m
Type	Connection cable for TE, TR/iTR, TF current sensors

<b>Length [m]</b>	2
<b>Colour outer sheath</b>	Grey
<b>Anti-kink sleeve</b>	None
<b>Cable construction</b>	Other
<b>AWG-size</b>	26
<b>Cable type</b>	U/UTP

#### ETIM - TECHNICAL FEATURES

<b>Category</b>	5
<b>Type of connector connection 1</b>	RJ12 6(6)
<b>Type of connector connection 2</b>	RJ12 6(6)
<b>Locking lever</b>	No
<b>Fire retardant version</b>	No
<b>Oil resistant according to EN IEC 60811-404</b>	Yes
<b>Pin assignment</b>	1:1
<b>NVP value [%]</b>	70

#### LOGISTICS

<b>GTIN/EAN</b>	3596032776633
<b>Customs number</b>	8544429090
<b>Price unit</b>	PC
<b>Weight of the packing unit [kg]</b>	0.16
<b>Length of the packing unit [m]</b>	0.06
<b>Width of the packing unit [m]</b>	0.06

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PRODUCT DETAILS

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**Effective date** 2013-11-22

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**Offer Life Cycle Code** 40

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**Country of origin** TH

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CLASSIFICATION

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**UNSPSC** 83101808

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**IGCC** 6042

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## Data Sheet 15

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: Square D: Timing Relay, 0-60 Sec, 120VAC, 8 Pin Octal, DPDT          Model Number: 9050JCK13V20</p> <p>Tags/Service:          TR0316 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 120VAC rated supply voltage</li> <li>• On-delay timer, 0.6-60 second range</li> <li>• 2VA power consumption</li> <li>• 10 current rating</li> <li>• DPDT, 2 NO + 2 NC contact composition</li> <li>• Silver nickel contact material</li> <li>• Socket mounting type</li> </ul>
1	<p>Mfg: Square D: Relay Socket, 120VAC, 8 Pin Octal, DIN          Model Number: 8501NR51</p> <p>Tags/Service:          TR0316 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 15A 300VAC rated current</li> <li>• DIN rail mounting type</li> <li>• Single tiered screw clamp terminal connection</li> </ul>

# Product data sheet

Specifications

TIMING RELAY, 0-60 SECONDS, 120VAC,  
11 PIN, DPDT

TAGS: TR03

SQUARE D



9050JCK13V20

Product availability: Stock - Normally stocked in distribution facility

## Main

product range	9050JCK
product type	Timer
timing mode	On-delay
timing range	0.6...60 s
supply voltage	120 V AC 110 V DC

## Complementary

power consumption	2 VA
current rating	10 A
switch function	DPDT
contact composition	2 NO + 2 NC
contact material	Silver nickel
maximum switching voltage	240 V AC
mounting type	Socket
number of pins	8
shape of pins	Tubular
for use with	8501NR52 8501NR51

## Environment

certifications	CE UL Listed UL Recognized
ambient temperature range - operational	-18...150 °F (-28...66 °C)
Height	2.4 in (61 mm)
Width	1.7 in (43 mm)
Depth	4.09 in (104 mm)

## Ordering and shipping details

Category	US10CP221651
Discount Schedule	0CP2
GTIN	785901032564

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Returnability	Yes
Country of origin	US

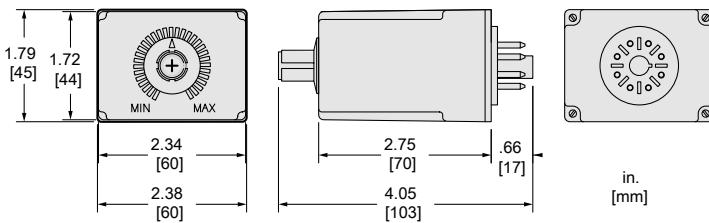
## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.900 in (4.826 cm)
Package 1 Width	2.50 in (6.35 cm)
Package 1 Length	4.300 in (10.922 cm)
Package weight(Lbs)	3.840 oz (108.862 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	20
Package 2 Height	4.50 in (11.43 cm)
Package 2 Width	10.0 in (25.4 cm)
Package 2 Length	11.00 in (27.94 cm)
Package 2 Weight	5.501 lb(US) (2.495 kg)

## Contractual warranty

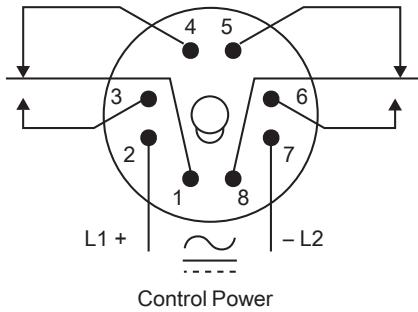
Warranty (in months)	18
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## Technical Illustration

**Dimensions**

All dimensions are approximate. Also see technical documentation.

## Technical Illustration

Wiring diagram

JCK11 – JCK19

JCK31 – JCK39

JCK51 – JCK59

JCK60

Image of product / Alternate images

**Alternative**

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# Product data sheet

RELAY SOCKET, 120VAC, 8 PIN OCTAL, DIN

Specifications

TAGS: TR0316

SQUARE D



Plug in relay, Type N, relay socket,  
8 tubular pin, single tier, for  
8501KP relays and 9050JCK  
timers

8501NR51

Product availability: Stock - Normally stocked in distribution facility

## Main

[In] rated current	15 A 300 V AC
	5 A 600 V AC

## Complementary

mounting type	DIN rail Panel
electrical connection	Single tiered screw clamp terminals
package quantity	1
Width	1.6 in (40 mm)
Height	2.1 in (54 mm)
Depth	1.0 in (24.6 mm)

## Ordering and shipping details

Category	US10CP221142
Discount Schedule	0CP2
GTIN	785901583592
Returnability	Yes
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.000 in (2.540 cm)
Package 1 Width	1.700 in (4.318 cm)
Package 1 Length	2.200 in (5.588 cm)
Package weight(Lbs)	1.600 oz (45.359 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	600
Package 2 Height	14.200 in (36.068 cm)
Package 2 Width	11.200 in (28.448 cm)
Package 2 Length	17.800 in (45.212 cm)
Package 2 Weight	64.0002 lb(US) (29.030 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Contractual warranty

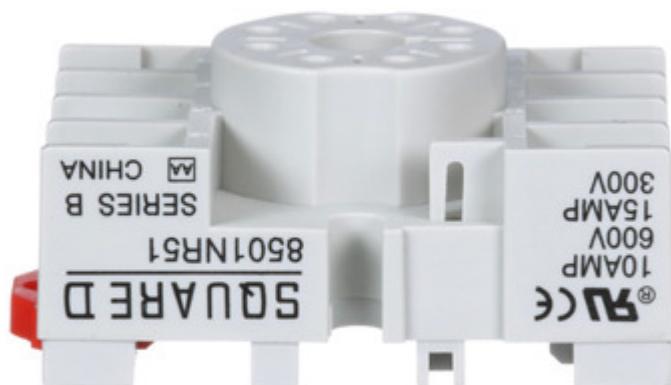
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Warranty (in months)

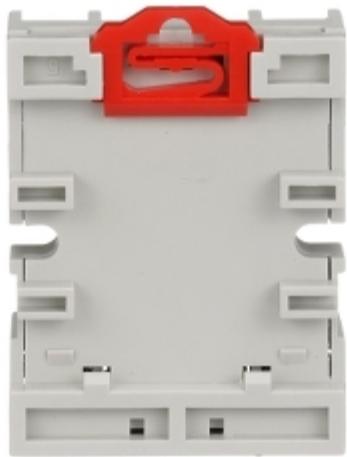
18

Image of product / Alternate images

Alternative







## Data Sheet 16

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
2	<p>Mfg: Square D: Timing Relay, 0-60 Sec, 120VAC, 11 Pin Octal, DPDT          Model Number: 9050JCK23V20</p> <p>Tags/Service:          TR0407, TR0409 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 120VAC rated supply voltage</li> <li>• Off-delay timer, 0.6-60 second range</li> <li>• 2VA power consumption</li> <li>• 10 current rating</li> <li>• DPDT, 2 NO + 2 NC contact composition</li> <li>• Silver nickel contact material</li> <li>• Socket mounting type</li> </ul>
2	<p>Mfg: Square D: Relay Socket, 120VAC, 11 Pin Octal, DIN          Model Number: 8501NR61</p> <p>Tags/Service:          TR0407, TR0409 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 15A 300VAC rated current</li> <li>• DIN rail mounting type</li> <li>• Single tiered screw clamp terminal connection</li> </ul>

# Product data sheet

Specifications

TIMING RELAY, 0-60 SECOND,  
120VAC, 11 PIN, DP

SQUARE D



TAGS: TR0407, TR0409

Timing Relay, Type JCK, plug In, off delay, adjustable time, 0.6 to 60 seconds, 10A, 240 VAC, 120 VAC/ 110 VDC

9050JCK23V20

Product availability: Stock - Normally stocked in distribution facility

## Main

product range	9050JCK
product type	Timer
timing mode	Off-delay
timing range	0.6...60 s
supply voltage	120 V AC <del>110 V DC</del>

## Complementary

power consumption	2 VA
current rating	10 A
switch function	DPDT
contact composition	2 NO + 2 NC
contact material	Silver nickel
maximum switching voltage	240 V AC
mounting type	Socket
number of pins	11
shape of pins	Tubular
for use with	8501NR61 8501NR62

## Environment

certifications	CE UL Recognized UL Listed
ambient temperature range - operational	-18...150 °F (-28...66 °C)
Height	2.4 in (61 mm)
Width	1.7 in (43 mm)
Depth	4.09 in (104 mm)

## Ordering and shipping details

Category	US10CP221651
Discount Schedule	0CP2
GTIN	785901032632

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Returnability	Yes
Country of origin	US

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.600 in (6.604 cm)
Package 1 Width	2.00 in (5.08 cm)
Package 1 Length	4.400 in (11.176 cm)
Package weight(Lbs)	4.160 oz (117.934 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	20
Package 2 Height	4.50 in (11.43 cm)
Package 2 Width	10.0 in (25.4 cm)
Package 2 Length	11.00 in (27.94 cm)
Package 2 Weight	5.501 lb(US) (2.495 kg)

## Contractual warranty

Warranty (in months)	18
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# Product data sheet

RELAY SOCKET, 120VAC, 11 PIN, DIN

Specifications

TAGS: TR0407, TR0409

SQUARE D



8501NR61

Product availability: Stock - Normally stocked in distribution facility

## Main

[In] rated current	15 A 300 V AC 5 A 600 V AC
--------------------	-------------------------------

## Complementary

mounting type	Panel DIN rail
electrical connection	Single tiered screw clamp terminals
package quantity	1
Width	2.3 in (59 mm)
Height	2.2 in (54.8 mm)
Depth	1.0 in (24.6 mm)

## Ordering and shipping details

Category	US10CP221142
Discount Schedule	0CP2
GTIN	785901583677
Returnability	Yes
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.100 in (2.794 cm)
Package 1 Width	2.400 in (6.096 cm)
Package 1 Length	2.300 in (5.842 cm)
Package weight(Lbs)	2.240 oz (63.503 g)
Unit Type of Package 2	PAL
Number of Units in Package 2	2400
Package 2 Height	40.000 in (101.600 cm)
Package 2 Width	40.000 in (101.600 cm)
Package 2 Length	48.000 in (121.920 cm)
Package 2 Weight	336.0002 lb(US) (152.407 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Contractual warranty

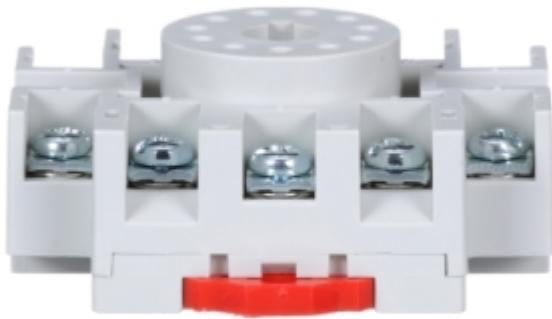
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Warranty (in months)

18

Image of product / Alternate images

Alternative





## Data Sheet 17

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
1	<p>Mfg: SCE: Enclosure Heater Model Number: SCE-TSH50</p> <p>Tags/Service: HTR0319 / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• DIN rail clip mounting</li> <li>• Designed for protection from low temperatures, condensation and corrosion</li> <li>• Touch safe heater</li> <li>• 120VAC rated operational voltage</li> <li>• 2 screw terminal connection style</li> </ul>
1	<p>Mfg: Finder: Enclosure Heater Thermostat, NC Model Number: 7T.81.0.000.2403</p> <p>Tags/Service: Thermostat / SPMP-01/02 RVSS Control Panels</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 7T - 7T series thermostat</li> <li>• 8 - Temperature control thermostat</li> <li>• 1 - 1 contact</li> <li>• 0 - No operating voltage required</li> <li>• 000 - No operating voltage required</li> <li>• 2 - Temperature control</li> <li>• 4 - 1 NC contact</li> </ul>

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• 03 - 0-60° C temperature control range</li><li>• IP20 protection category</li><li>• Silver nickel standard contact material</li></ul> |
|--|---|



## ENCLOSURE HEATER

TAGS: HTR0319

# SCE-TSH50

Saginaw Control and Engineering  
95 Midland Road Saginaw, MI 48638-5770  
(800) 234-6871 - Fax: (989) 799-4524  
SCE@SaginawControl.com

## Product Specifications:

**Part Number:** SCE-TSH50  
**Description:** Heater - 50W  
**Height:** 4.92"  
**Width:** 1.61"  
**Depth:** 1.61"  
**Price Code:** P1  
**List Price:** \$142.60  
**Catalog Page:** 402  
**Est. Ship Weight:** 0.35 lbs  
**Max. Current:** 3.5  
**Model Number:** 501050

### Application

PTC (Positive Temperature Coefficient)  
Din rail clip design for 35mm Din Rail. Designed for protection from low temperatures, condensation and corrosion. Touch Safe with 2 screw terminal for standard AWG 14 wire. 110-240V AC.

For low temperatures management use with thermostat

For condensate management no thermostat is necessary - continuous heat is most effective see installaton Instruction for sizing.

### Industry Standards - (IS24)

✿ UL Component Recognized

### Notes

UL File #E358386

### Optional Accessories

~~SCE-TEMID Thermostat (Dual)~~  
~~SCE-TEMNC Thermostat (Normally Closed)~~

### Similar Part Numbers

~~SCE-TSH100Heater - 100W~~  
~~SCE-TSH150Heater - 150W~~  
~~SCE-TSH25Heater - 25W~~  
~~SCE-TSH75Heater - 75W~~

### Installation Information

✿ Touch Safe Heaters

ENCLOSURE HEATER THERMOSTAT, NC

TAGS: THERMOSTAT

# Panel Thermo-Hygrostat and Thermostats

7T  
SERIES



Drying kilns



Industrial  
refrigeration



Road / tunnel  
lighting



Industrial  
furnaces  
and ovens



Automatic  
car-washes



Panels for  
electrical  
distribution



Control panels



Forced-air  
ventilators



**Panel Thermo-Hygrostat**

- Small, compact size (17.5 mm wide)
- Electronic control
- 4 functions
- Nominal voltage 110...240 V AC/DC
- Temperature ranges from +10° to +60°C
- Humidity range up to 90%
- LED status indication contact ON
- 35 mm rail (EN 60715) mount

**Panel thermostat**

- Small, compact size (17.5 mm wide)
- Snap action thermostatic Bimetal sensor
- Wide temperature setting range
- Long electrical life
- 35 mm rail (EN 60715) mount

7T.51/7T.81  
Box clamp



\* Measured with 0.3 K/min

\*\* Measured with 0.5 %/min

For outline drawing see page 6

**Contact specification**

Contact configuration	1 NO (SPST-NO)	1 NC (SPST-NC)	1 NO (SPST-NO)
Rated current/Maximum peak current A	10/15	10/20	10/20
Rated voltage/V			
Maximum switching voltage V AC	250/400	250/250	250/250
Rated load AC1 VA	2500	2500	2500
Rated load AC15 (230 V AC) VA	500	250	250
Single phase motor rating AC3 (230 V AC) kW	—	1.1	1.1
Breaking capacity DC1: 24/110/220 V A	10/0.3/0.12	1/0.3/0.15	1/0.3/0.15
Minimum switching load mW (V/mA)	500 (12/10)	500 (12/10)	500 (12/10)
Standard contact material	AgNi	AgNi	AgNi

**Coil specifications**

Nominal Voltage V AC/DC	110...240	—	—
Rated Power VA (50Hz)/W	1.8/0.44	—	—
Operating range V AC/DC	88...264	—	—

**Temperature specifications \***

Setting range (ventilation) °C	+10...+60	-20...+40	-20...+60	0...+60	-20...+40	-20...+60	0...+60
Switch differential K	4 ± 2	7 ± 4	—	—	7 ± 4	—	—
Setting accuracy full range K	-1...+3	—	—	—	—	—	—

**Humidity specifications \*\***

Setting range (humidity) %	50...90	—	—
Hysteresis %	4 ± 2	—	—
Setting accuracy %	5	—	—

**Technical data**

Electrical life at rated load AC1 cycles	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Ambient temperature range °C	-25...+60	-45...+80	-45...+80
Protection category	IP 20	IP 20	IP 20

**Approvals (according to type)**

**NEW** 7T.51



7T.81.0.000.240x



7T.81.0.000.230x



## Ordering information

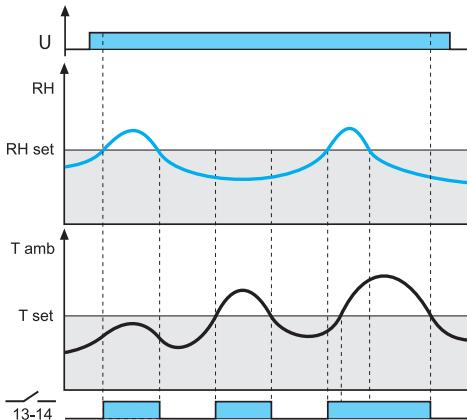
Example: 7T Series, Thermo-Hygrostat for temperature and humidity control, 110...240 V AC/DC, Multifunction, 35 mm rail (EN 60715) mount.

<b>7 T . 5 1 . 0 . 2 3 0 . 4 3 6 0</b>	
<b>Series</b>	7T
<b>Type</b>	8
5 = Thermo-Hygrostatic control	1
8 = Temperature control	0
<b>No. of contacts</b>	000
1 = 1 contact	2
<b>Voltage type</b>	4
0 = AC/DC (only 7T.51)	3
0 = No operating voltage required (only 7T.81)	03
<b>Rated operating voltage</b>	60
230 = 110...240 V (only 7T.51)	Multifunction (only 7T.51)
000 = No operating voltage required	<del>01 = -20...+40 °C (only 7T.81)</del>
	<del>02 = -20...+60 °C (only 7T.81)</del>
	<b>Control function</b>
	03 = 0...+60 °C (only 7T.81)
<b>Contact configuration</b>	
	3 = 1 NO contact
	4 = 1 NC contact
<b>Monitoring function</b>	
	2 = Temperature control
	<del>4 = Temperature and Humidity, adjustable</del>

## Technical data

<b>Insulation</b>		<b>7T.51</b>	<b>7T.81</b>
Dielectric strength between open contacts	V AC	1000	500
Dielectric strength between supply and contact	V AC	2000	—
<b>Other data</b>		<b>7T.51</b>	<b>7T.81</b>
Vibration resistance	g	—	16
Shock resistance	g	—	20
		<b>7T.51/7T.81</b>	
Screw torque	Nm	0.5	0.5
Max. wire size		solid cable	
	mm <sup>2</sup>	1 x 4 / 2 x 2.5	1 x 4 / 2 x 2.5
	AWG	1 x 12 / 2 x 14	1 x 12 / 2 x 14
Wire strip length	mm	9	9

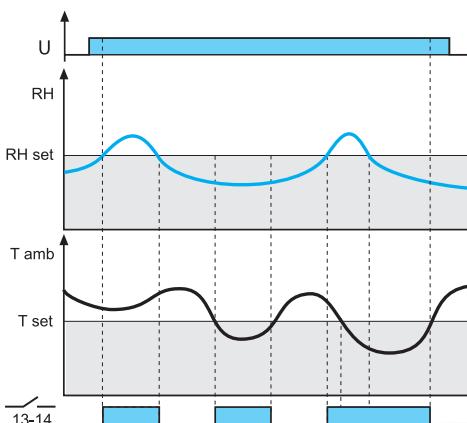
## Functions 7T.51



### HT: RH > RHset or Tamb > Tset

Power is permanently applied to the thermo-hygrostat.  
The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) or if the ambient temperature (Tamb) is > of set temperature (Tset).

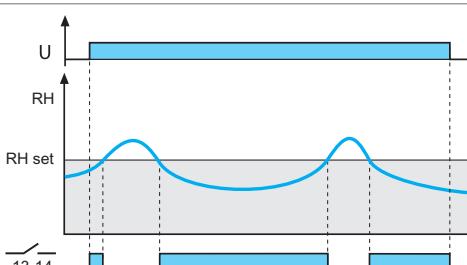
When contact is close, LED is ON



### TH: RH > RHset or Tamb < Tset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) or if the ambient temperature (Tamb) is < of set temperature (Tset).

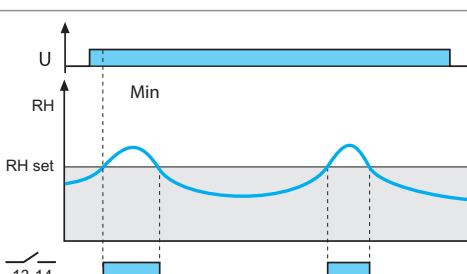
When contact is close, LED is ON



### HL: RH < RHset

The contact 13-14 closes if the ambient humidity (RH) is < of set humidity (RHset)

When contact is close, LED is ON

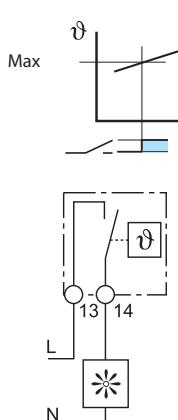
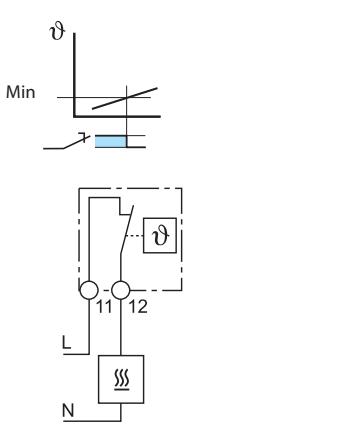


### HM: RH > RHset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset)

When contact is close, LED is ON

## Functions 7T.81



**Heating control** - Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat.

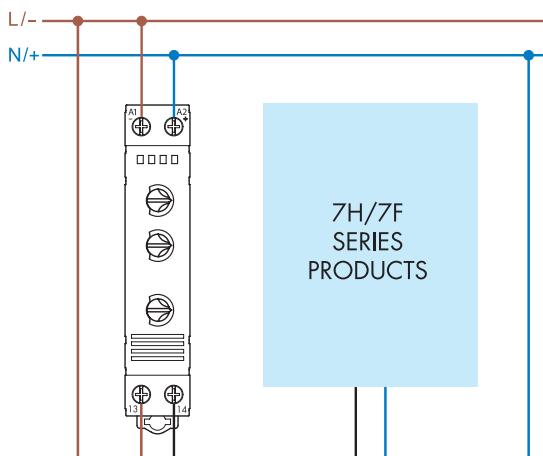
The contact will open when this set temperature is exceeded.

**Ventilation control** - Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling.

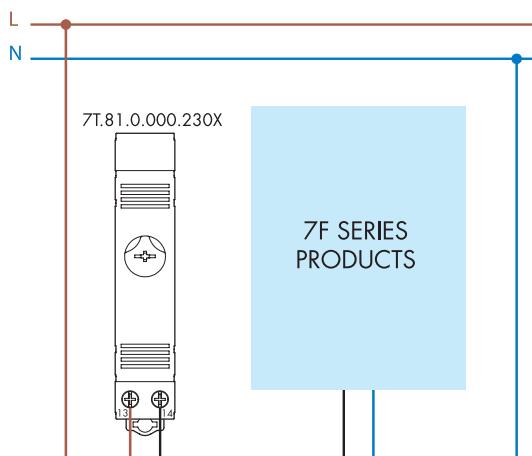
The contact will open when the temperature falls below this set temperature.

## Wiring diagrams

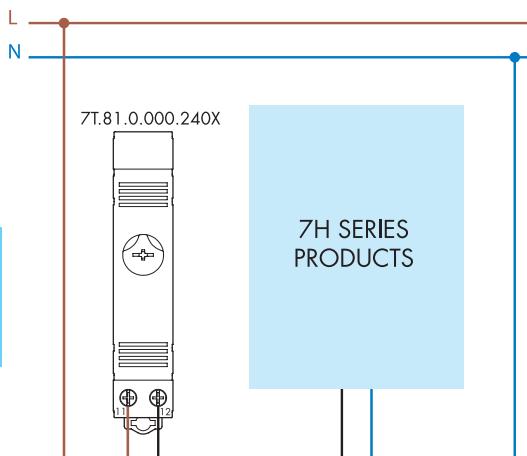
Type 7T.51



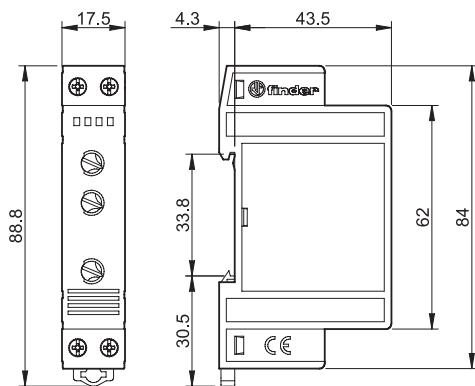
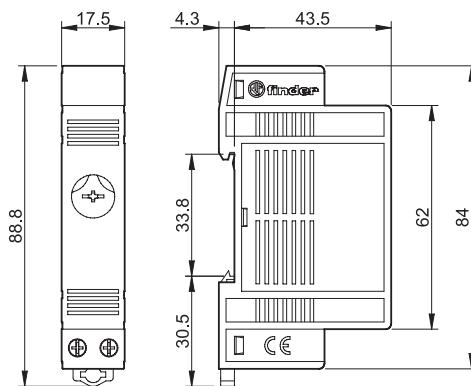
Type 7T.81...230x



Type 7T.81...240x



## Outline drawings

Type 7T.51  
Box clampType 7T.81  
Box clamp

**Data Sheet 18**

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/06/2026
Qty	Description
A/R	Mfg: Phoenix Contact: Terminal Block Model Number: UT 2,5
A/R	Mfg: Phoenix Contact: Grounding Terminal Block Model Number: UT 2,5-PE
A/R	Mfg: Phoenix Contact: Terminal End Barrier Model Number: D-UT 2,5-10
A/R	Mfg: Phoenix Contact: Terminal Anchor Model Number: E/NS 35 N  Tags / Service: TB-AC / SPMP-01/02 RVSS Control Panels  Specifications: <ul style="list-style-type: none"><li>• Feed through and grounding terminals</li><li>• Screw clamps</li><li>• End plates and anchors</li><li>• DIN rail mount</li></ul>

## TERMINAL BLOCK

TAGS: TB-AC



Extract from the online catalog

### UT 2,5

Order No.: 3044076



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=3044076>

Universal terminal block, Type of connection: Screw connection, Screw connection, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG 26 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15



#### Commercial data

EAN	4017918960377
Pack	50 pcs.
Customs tariff	85369010
Weight/Piece	0.008227 KG
Catalog page information	Page 26 (CL-2009)

#### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

#### Technical data

##### General

Number of levels	1
Number of connections	2
Color	gray

Insulating material	PA
Inflammability class acc. to UL 94	V0

#### Dimensions

Width	5.2 mm
Length	47.7 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

#### Technical data

Maximum load current	32 A (with 4 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	ja

#### Connection data

Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.14 mm <sup>2</sup>

2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
Type of connection	Screw connection
Stripping length	9 mm
Internal cylindrical gage	A3
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

### Certificates / Approvals



Certification

CB, CSA, CUL, DNV, GL, GOST, LR, UL, VDE-PZI

Certification Ex:

IECEEx, KEMA-EX

### CSA

Nominal voltage U <sub>N</sub>	600 V
Nominal current I <sub>N</sub>	20 A
AWG/kcmil	26-12

### CUL

Nominal voltage U <sub>N</sub>	600 V
Nominal current I <sub>N</sub>	20 A
AWG/kcmil	26-12

### UL

Nominal voltage U <sub>N</sub>	600 V
Nominal current I <sub>N</sub>	20 A
AWG/kcmil	26-12

## UT 2,5-PE

Order No.: 3044092



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=3044092>

Feed-through modular terminal block, Type of connection: Screw connection, Screw connection, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG 26 - 12, Width: 5.2 mm, Color: green-yellow, Mounting type: NS 35/7,5, NS 35/15



### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



[http://  
www.download.phoenixcontact.com](http://www.download.phoenixcontact.com)  
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to the user documentation. The  
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### Commercial data

EAN	4017918960360
Pack	50 pcs.
Customs tariff	85369010
Weight/Piece	0.012156 KG
Catalog page information	Page 32 (CL-2009)

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	green-yellow

Insulating material	PA
Inflammability class acc. to UL 94	V0

#### Dimensions

Width	5.2 mm
Length	47.7 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

#### Technical data

Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-2
Open side panel	ja

#### Connection data

Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
Type of connection	Screw connection
Stripping length	9 mm
Internal cylindrical gage	A3
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

#### Certificates / Approvals



Certification CB, CSA, CUL, DNV, GL, LR, UL, VDE-PZI

Certification Ex: IECEx, KEMA-EX

#### CSA

AWG/kcmil	26-12
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#### CUL

AWG/kcmil	26-12
-----------	-------

#### UL

AWG/kcmil	26-12
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## D-UT 2,5/10

Order No.: 3047028



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=3047028>

End cover, Length: 47.7 mm, Width: 2.2 mm, Height: 48.4 mm,  
Color: gray

Commercial data	
EAN	4017918960346
Pack	50 pcs.
Customs tariff	85389099
Weight/Piece	0.00248 KG
Catalog page information	Page 26 (CL-2009)

### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



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**32384 CHARLES COUNTY POMONKEY PUMP STATION  
IMPROVEMENTS**

**Drawings Index:**

<b>Drawing Number</b>	<b>Drawing Description</b>
D32384-01	SPMP-01/02 RVSS PANEL EXTERIOR LAYOUT
D32384-02	SPMP-01/02 RVSS PANEL INTERNAL LAYOUT
D32384-03	SPMP-01/02 RVSS PANEL 480/120VAC WIRING DIAGRAM
D32384-04	SPMP-01/02 RVSS PANEL 120VAC WIRING DIAGRAM

**32384 CHARLES COUNTY POMONKEY PUMP STATION  
IMPROVEMENTS**

Drawings:

WARNING NAMEPLATE DETAIL

S-L CONTROLS, DWG D32384-01  
VOLTAGE: 480VAC, 60HZ, THREE PHASE  
AMPS: 17

MAXIMUM PUMP HORSEPOWER: 10

SHORT CIRCUIT CURRENT: 5kA SYMMETRICAL, 480V MAXIMUM

ENCLOSURE RATING: UL TYPE 4X

CAUTION: MULTIPLE POWER SOURCES ARE PROVIDED FROM FIELD TERMINALS. EACH SOURCE SHOULD BE DISCONNECTED FOR SERVICING.

WARNING: TO MAINTAIN OVERCURRENT, SHORT CIRCUIT, AND GROUND FAULT PROTECTION, THE MANUFACTURER'S INSTRUCTIONS FOR SELECTING CURRENT ELEMENTS MUST BE FOLLOWED

NAMEPLATES SIZED AS REQUIRED

NAME PLATE LEGEND TABLE

ITEM	QTY	DESCRIPTION
1	2	SPMP-(01,02) / RVSS PANEL
2	2	HAND / OFF / AUTO
3	2	PUMP / RUNNING
4	2	PUMP / STOPPED
5	2	PUMP / FAULT
6	2	HIGH / TEMP
7	2	FAULT / RESET
8	2	SEAL / LEAK
9	2	ELAPSED TIME METER
10	2	FU0315, FU0315A: MERSEN ATQR8/10 0.8A FU0315B: MERSEN ATM2 2A
11	2	FU0404: MERSEN MI5HF25V0.1/100 0.1A
12	2	FU0304,FU0304A,FU0305,FU0305A: MERSEN ATM1/2 0.5A

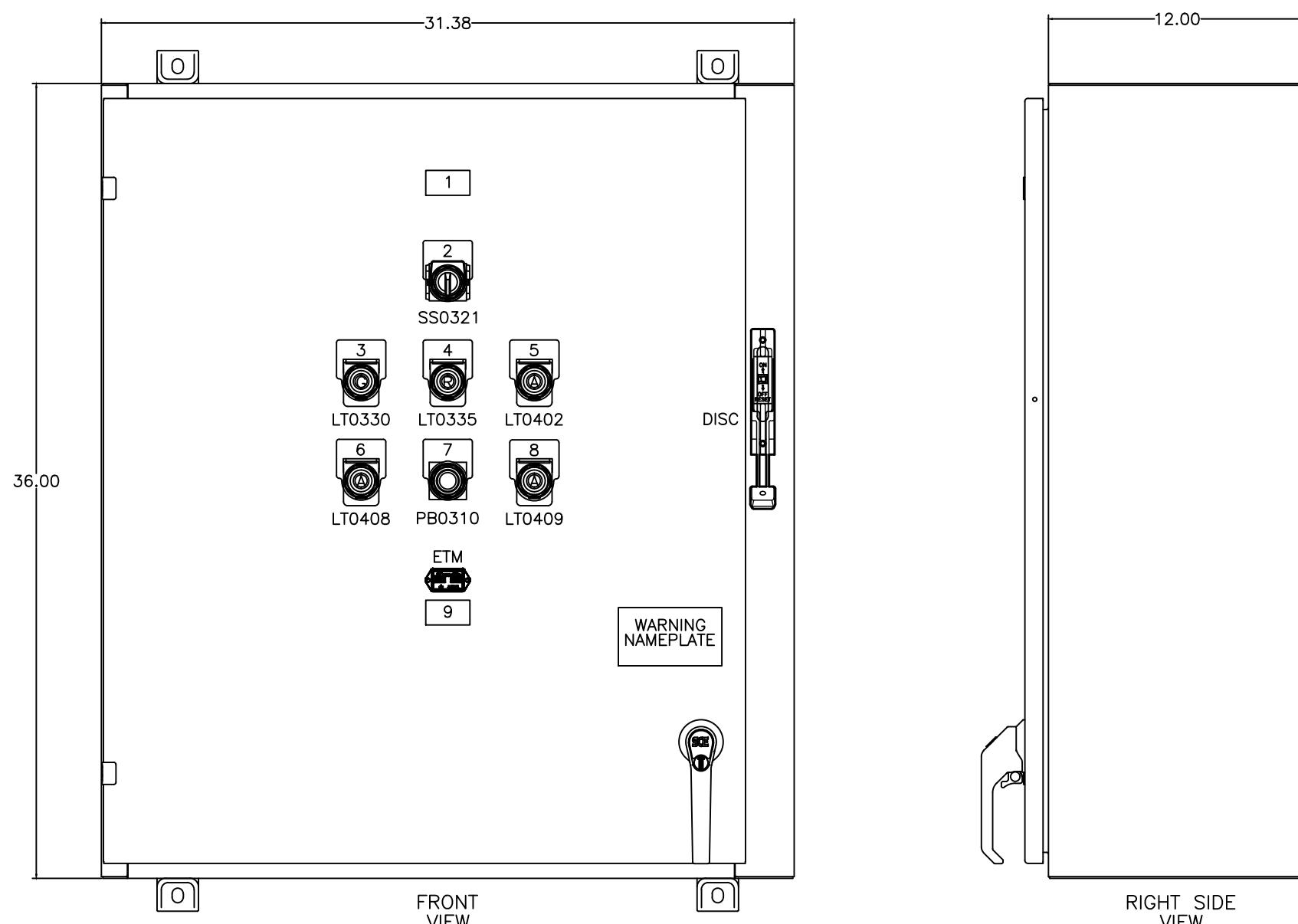
NOTES:

ALL PLATES SHALL BE ENGRAVED ON WHITE BACKGROUND WITH BLACK CHARACTERS. LETTER HEIGHT SHOULD BE MINIMUM 1/4"

WIRING:

- 1) □ - INDICATES CABINET TERMINAL BLOCK
- 2) DASHED LINES INDICATE WIRING REMOTE TO CONTROL PANEL.
- 3) PROVIDE 20% SPARE TERMINALS
- 4) UL APPROVED NO. TO BE PROVIDED AT TIME OF MANUFACTURING
- 5) ELECTRICAL CONNECTION TORQUES:  
TERMINAL: 12 INCH POUNDS  
CIRCUIT BREAKER: 45 INCH POUNDS

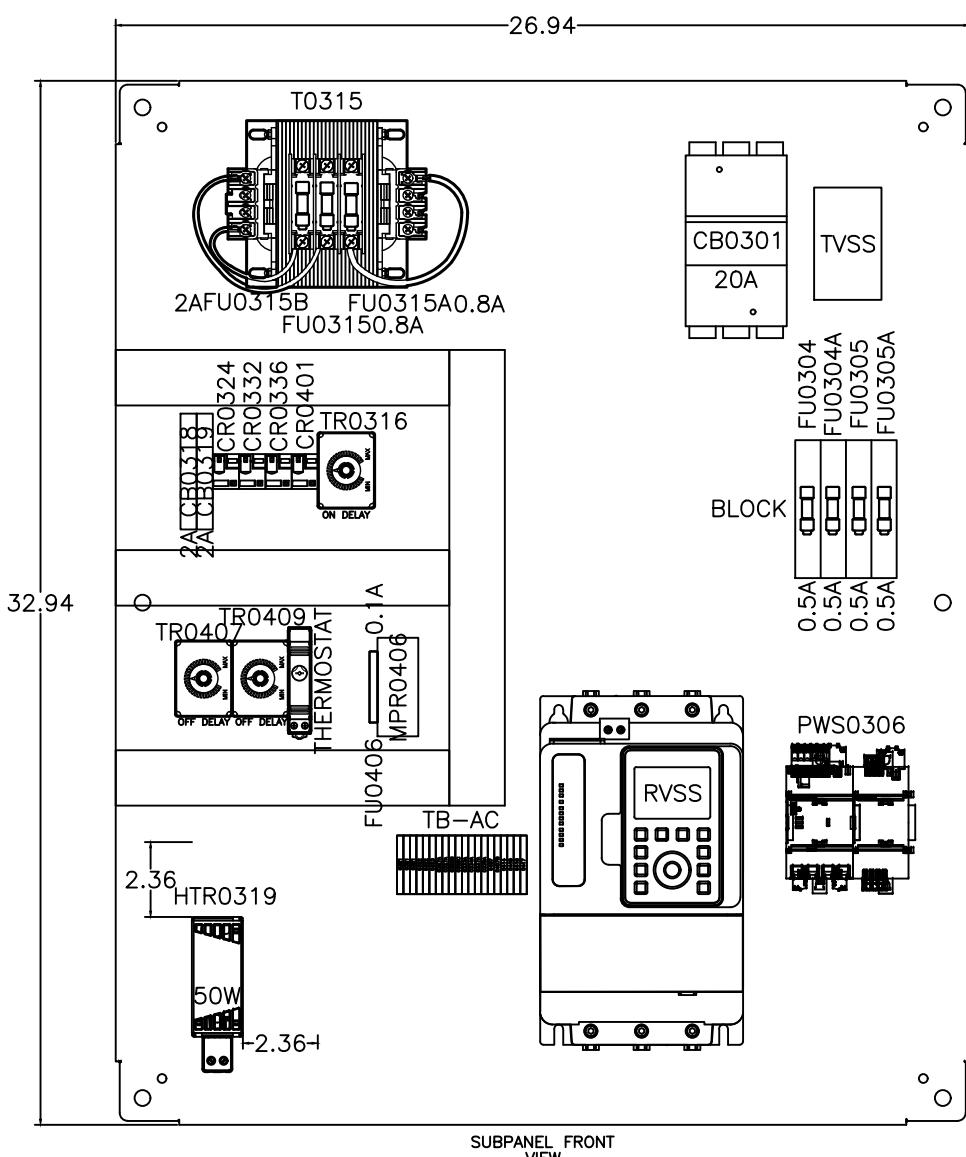
DRAWING IS TYP. FOR SPMP-01 AND SPMP-02 RVSS PANELS



PANEL WIRING

AREA	VOLTAGE	NOUN NAME	ID	GAGE	COLOR	TYPE
POWER	480VAC 3PH	A PHASE	(L1), (1L1), (H1)	12	BROWN	MTW
POWER	480VAC 3PH	B PHASE	(L2), (1L2), (H2)	12	ORANGE	MTW
POWER	480VAC 3PH	C PHASE	(L3), (1L3)	12	YELLOW	MTW
INTERNAL	120VAC	HOT	(1), (1A), (X1)	14	BLACK	MTW
INTERNAL	120VAC	NEUTRAL	(N)	14	WHITE	MTW
CONTROL	120VAC	HOT	VARIOUS	16	RED	MTW
CONTROL	120VAC	NEUTRAL	N	16	WHITE	MTW

TOLERANCES	REVISIONS			POMONKEY PUMP STATION IMPROVEMENTS		
	NO.	DATE	BY	SPMP-01/02 RVSS PANEL EXTERNAL LAYOUT		
DECIMAL	1					
	2					
FRACTIONAL	3			DRAWN BY ZBB	SCALE NONE	MATERIAL
	4			CHK'D MN	DATE 01-06-2026	DRAWING NUMBER
ANGULAR	5			TRACED	APP'D	D32384-01
	6					

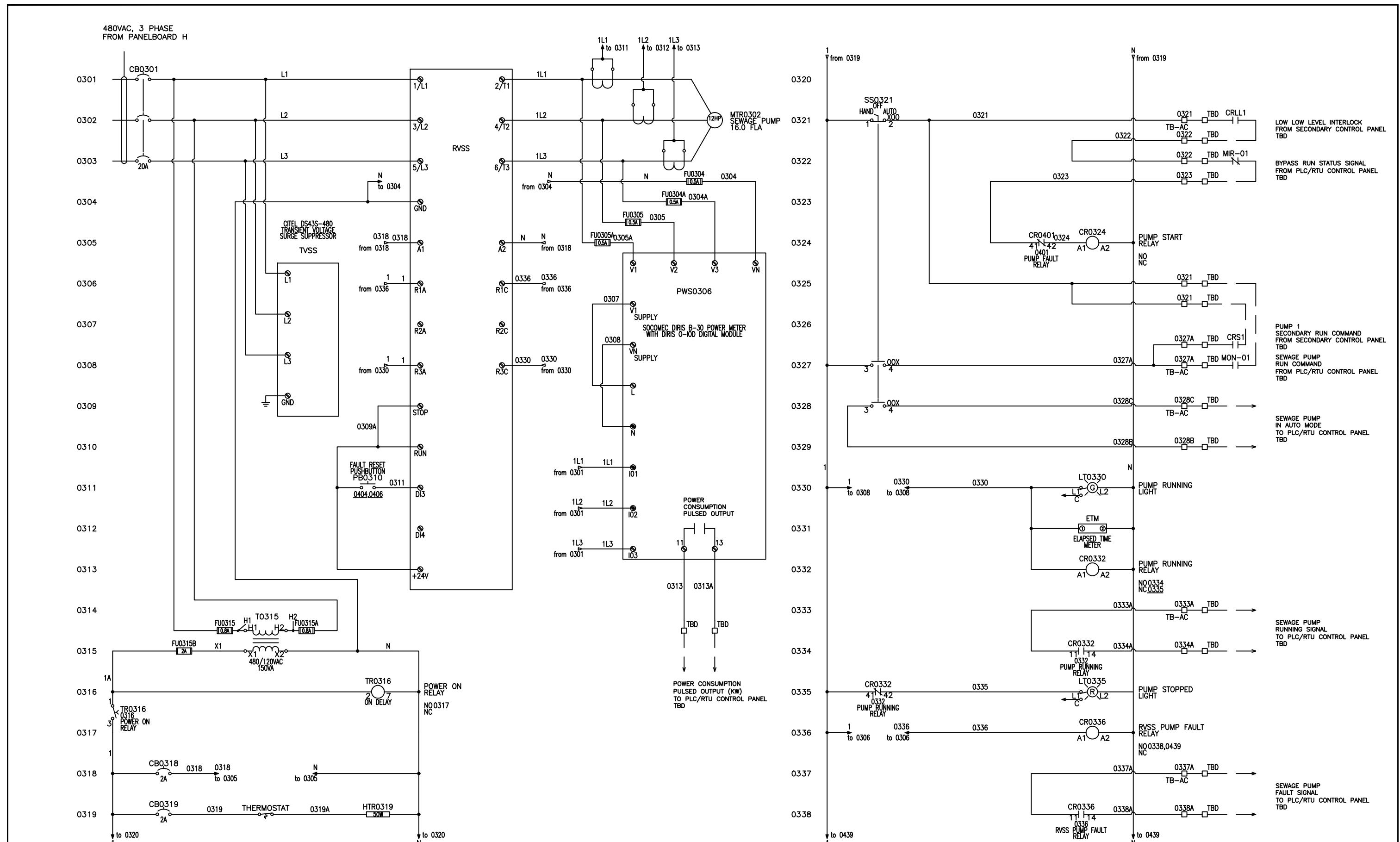


TAGS	QTY	CATALOG	DESCRIPTION	MANUFACTURER
ENC	1	SCE-36XEL3112SS6LP	WALL MOUNT ENCLOSURE - NEMA 4X	SCE
ENC	1	SCE-36P30	ENCLOSURE BACKPANEL	SCE
ENC	1	SCE-ELMFK4	WALL MOUNT FOOT KIT	SCE
DISC	1	9422A2	FLANGE MOUNTED DISCONNECT HANDLE - NEMA 4X	SQUARE D
DISC	1	9422CSB30	CABLE OPERATED DISCONNECT MECHANISM	SQUARE D
ETM	1	722-0001	ELAPSED TIME METER	TRUMETER
ETM	1	5003-010	GASKET, RECTANGULAR, 2-HOLE	TRUMETER
LT0330	1	9001SKT38LG31	PTT LIGHT, 120VAC LED, GREEN	SCHNEIDER ELECTRIC
LT0335	1	9001SKT38LRR31	PTT LIGHT, 120VAC LED, RED	SCHNEIDER ELECTRIC
LT0402, LT0408, LT0409	3	9001SKT38LYA31	PTT LIGHT, 120VAC LED, AMBER	SCHNEIDER ELECTRIC
PB0310	1	9001SKR1B	PUSHBUTTON, BLACK	SCHNEIDER ELECTRIC
PB0310	1	9001KA2	1 NO CONTACT	SCHNEIDER ELECTRIC
PB0310	2	9001KA3	1 NC CONTACT	SCHNEIDER ELECTRIC
SS0321	1	9001SKS43BH2	3 POSITION SWITCH, BLACK	SCHNEIDER ELECTRIC
T0315	1	9070TF150D1	CPT-480/120V, 150VA	SQUARE D
CB0301	1	BDL36020	MAIN CIRCUIT BREAKER, 20A	SQUARE D
CB0318, CB0319	2	9926251002	CIRCUIT BREAKER, 120VAC, 2A	WEIDMULLER
CR0324, CR0332, CR0336, CR0401	4	RXM2AB2F7	MINIATURE RELAY, 120VAC, 8 BLADE	SCHNEIDER ELECTRIC
CR0324, CR0332, CR0336, CR0401	4	RXZE2M114	RELAY SOCKET, 120VAC, 8 BLADE, DIN	SCHNEIDER ELECTRIC
FU0315B	1	ATMR2	FUSE, FAST ACTING, 2A	MERSEN
FU0315, FU0315A	2	ATQR8/10	FUSE, TIME DELAY, 0.8A	MERSEN
FU0406	1	3046100	FUSE TERMINAL BLOCK, 120VAC	PHOENIX CONTACT
FU0406	1	MI5HF25V0.1/100	MINIATURE FUSE, FAST ACTING, 0.1A	MERSEN
FU0304, FU0304A, FU0305, FU0305A	4	ATMR1/2	FUSE, FAST ACTING, 0.5A	MERSEN
BLOCK	1	30324R	CLASS CC FUSE BLOCK, 4 POLES	MERSEN
TVSS	1	DS43S-480	TRANS. VOLTAGE SURGE SUPPRESSOR	CITEL
RVSS	1	ATS490D17Y	REDUCED VOLTAGE SOFT STARTER	SCHNEIDER ELECTRIC
PWS0306	1	48290000	MODBUS POWER METER	SOCOMEC
PWS0306	1	48290030	DIGITAL I/O POWER METER MODULE	SOCOMEC
PWS0306	3	48290556	SPLIT CORE TR-14 SENSOR, 40-160A	SOCOMEC
PWS0306	1	48290584	RJ12 CONNECTION CABLE, 3 COUNT	SOCOMEC
TR0316	1	9050JCK13V20	TIMING RELAY, 0-60 SEC, 120VAC, 8 PIN OCTAL, DPDT	SQUARE D
TR0316	1	8501NR51	RELAY SOCKET, 120VAC, 8 PIN OCTAL, DIN	SQUARE D
TR0407, TR0409	2	9050JCK23V20	TIMING RELAY, 0-60 SEC, 120VAC, 11 PIN, DPDT	SQUARE D
TR0407, TR0409	2	8501NR61	RELAY SOCKET, 120VAC, 11 PIN OCTAL, DIN	SQUARE D
HTR0319	1	SCE-TSH50	ENCLOSURE HEATER	SCE
THERMOSTAT	1	7T.81.0.000.2403	ENCLOSURE HEATER THERMOSTAT, NC	FINDER
TB-AC	23	3044076	UNIVERSAL TERMINAL BLOCK - UT 2,5	PHOENIX CONTACT
TB-AC	A/R	D-UT 2,5 / 10	TERMINAL END BARRIER	PHOENIX CONTACT
TB-AC	A/R	UT 2,5-PE	GROUNDING TERMINAL BLOCK	PHOENIX CONTACT
TB-AC	A/R	E/NS 35 N	TERMINAL ANCHOR	PHOENIX CONTACT

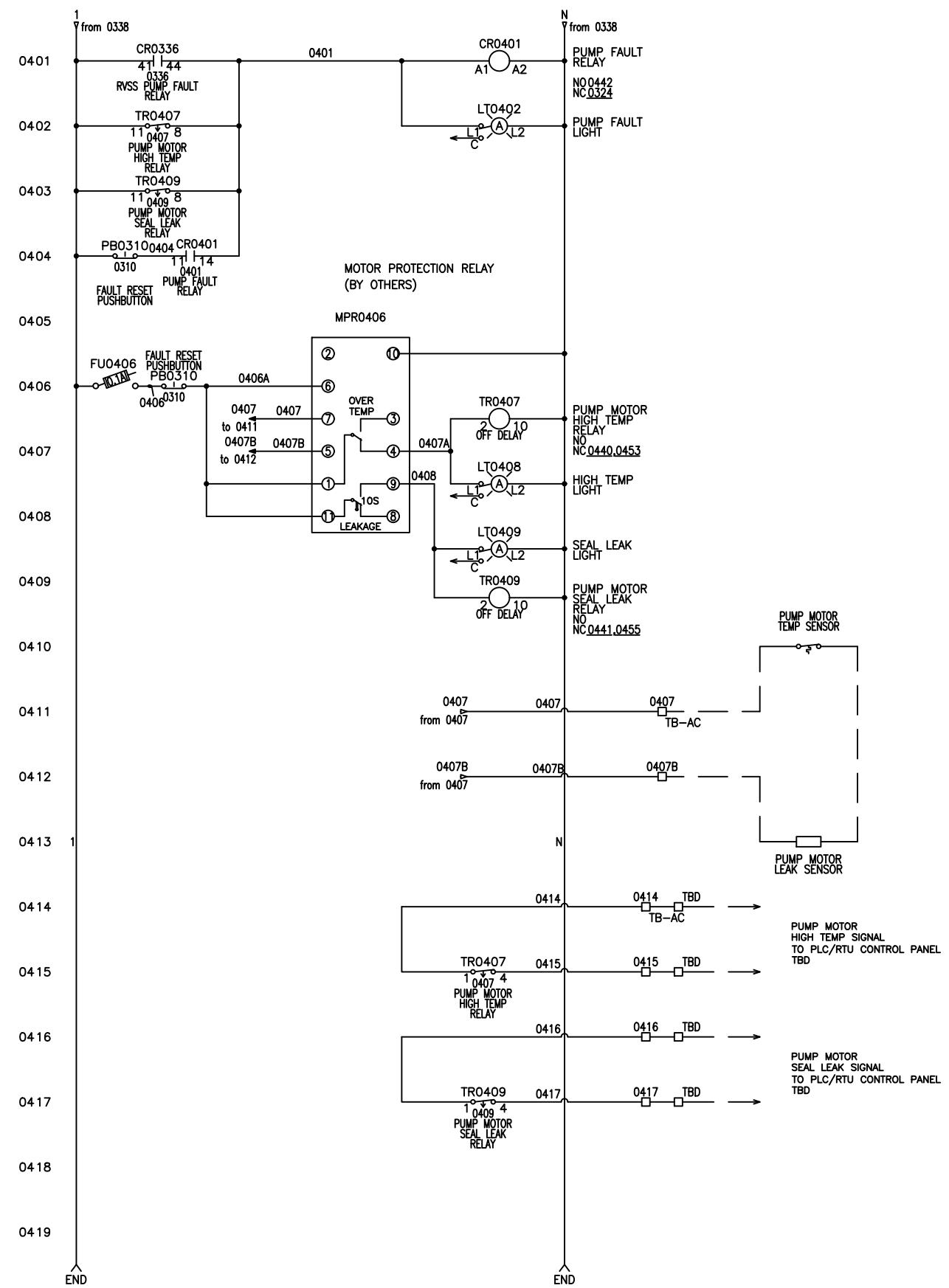
TOLERANCES	REVISIONS			DRAWN BY ZBB	SCALE NONE	MATERIAL
	NO.	DATE	BY			
DECIMAL	1			CHKD MN	DATE 01-06-2026	DRAWING NUMBER D32384-02
	2					
FRACTIONAL	3			TRACED APP'D	DATE	D32384-02
	4					
ANGULAR	5					
	6					

POMONKEY PUMP STATION IMPROVEMENTS  
SPMP-01/02 RVSS PANEL INTERNAL LAYOUT

**SI-CONTROLS**



TOLERANCES	REVISIONS			POMONKEY PUMP STATION IMPROVEMENTS SPMP-01/02 RVSS PANEL 480/120VAC WIRING DIAGRAM			
	NO.	DATE	BY				
DECIMAL	1						
	2						
FRACTIONAL	3			DRAWN BY ZBB	SCALE NONE	MATERIAL	
	4			CHK'D MN	DATE 01-06-2026	DRAWING NUMBER	
ANGULAR	5			TRACED	APP'D	D32384-03	
	6						



TOLERANCES	REVISIONS			POMONKEY PUMP STATION IMPROVEMENTS			
	NO.	DATE	BY	SPMP-01/02 RVSS PANEL 120VAC WIRING DIAGRAM			
DECIMAL	1						
	2						
FRACTIONAL	3			DRAWN BY ZBB	SCALE NONE	MATERIAL	
	4			CHK'D MN	DATE 01-06-2026	DRAWING NUMBER	
ANGULAR	5			TRACED	APP'D	D32384-04	
	6						