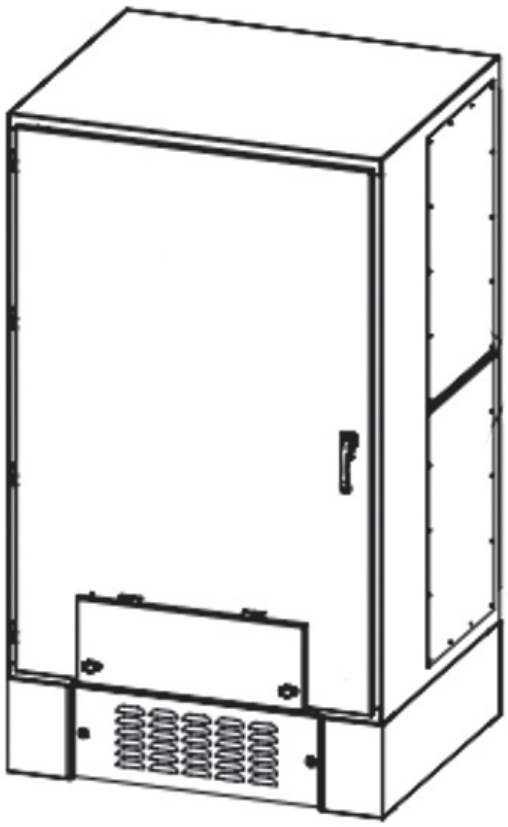
DATA SHEET

Single Purpose Docking Station

Generator (100 - 5000A)



PRODUCT INTRODUCTION

Single Purpose Docking Station

Generator (100 - 5000A)

The Trystar Single Purpose Generator Docking Station allows a user the temporary connection of a portable generator to an existing service. This saves time and money when the permanent generator needs to be serviced, or when the main service utility is not available for an extended period of time.

On our most common generator docking stations, we use the industry standard Kirk-key mechanism to transfer power from permanent generator to temporary. In most cases, this docking station sits right next to a permanent generator and the associated transfer switch. However, we also offer solutions and means of transfer using breakers within the unit. Available enclosures include wall-mount, flange-mount and padmount.

Key Features

Rugged Construction: Aluminum NEMA 3R or 304/316 Stainless Steel NEMA 4X enclosure provides durability in harsh environments.

High Ampacity Range (100-5000 AMP): Offers flexibility to support large scale power demands across various industries. 100-4000A with UL1008 Listing, 5000A with PE-listing.

Industry Standard Cam-Lock Connections: Series 16 Cam-Lock connectors with clear protective lids streamlines setup while preventing unauthorized access and reducing wear, ensuring operational security.

Phase Rotation Monitor: Standard feature prevents connection errors, ensuring optimal performance and reducing potential equipment damage.

NEC 702.12(C) Compliant: Uses Kirk-key interlocks to prevent interconnecting temporary and permanent inputs.

IBC Seismic Certified: Select enclosures available for seismically active areas.

Wind Rated: Enclosures can be rated to handle the highest wind requirements (180MPH).

PRODUCT SPECIFICATIONS

Electrical		
	Ampacity	100A - 5000A
	Voltage Options	120/240V, 120/240V Delta, 208Y/120V, 480V, 480Y/277V, 600V
	Frequency	60Hz (50Hz)
	Interrupt Rating	65 kAIC - 100 kAIC
	Breakers	3, 4-Pole / Single Phase
Environmental		
	Operating Temperature	32^{o} to 104^{o} F (0^{o} to 40^{o} C)
	Humidity Rating	5 to 95% relative humidity (non-condensing)
	Codes/Standards	ETL UL-1008, UL-50

PRODUCT SPECIFICATIONS (CONT.)

Mechanical	
Enclosure Types	NEMA 3R: Powder Coated Aluminum NEMA 4X: 304 or 316 Stainless Steel
Bus Bar	Silver Plated Copper / Tin Plated Copper (wastewater use)
*Enclosure Dimensions (H x W x D) Inches	Dual Padmount: 84” x 96.5” x 43” in. Deluxe Padmount: 90” x 78.5” x 43” in. Padmount Extra Depth: 84” x 48” x 61” in. Padmount: 84” x 48” x 43” in. Large Wall-mount: 60” x 48” x 19.5” in. Medium Wall-mount: 54” x 40” x 16.5” in. Small Wall-mount: 48” x 30” x 16.5” in. Large Flange 78” x 52”x 21.3” Med Flange 70” x 44”x 18.3” Small Flange 64” x 34”x 18.3”

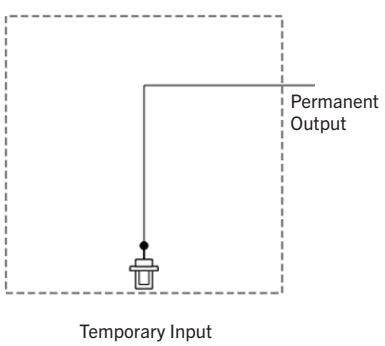
*Dimensions may vary due to applications or specifications

Optional Accessories and Additions:

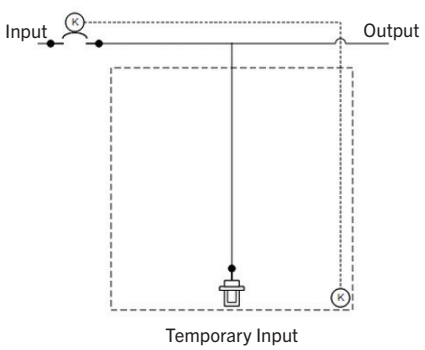
Long, Short, Instantaneous Ground Tripping (LSIG) / Energy Reduction Management System (ERMS) / 100% Rated Ground Conductors / ModBus TCP Connectivity / Temporary Input Mechanical Lug Connections / Two-wire Auto-start (5-way Bonding Posts) / Battery Charger Receptacles / Block Heater / Camlock Grounds / SCADA Terminal Wiring Block / Kirk-key Door Interlock / Custom Lugs / Power Monitoring Device / Strip Heater and Thermostat / Surge Protection Devices / Load Dump (Shed Receptacle) / SER / Utility Light-Alarm/ Grace Light.

ONE-LINE DRAWINGS

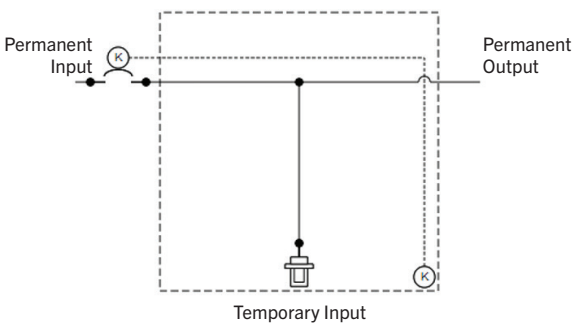
Generator Docking Station (GDS): The three lines that make up the GDS do not contain any circuit breakers or protection for the permanent load. For solutions looking for a simple enclosure that taps into the existing wiring, the GDS-1 is that basic solution. GDS-2 and GDS-3 introduce kirk-key interlocks with a breaker upstream of the enclosure. Interlocking means that the operator can isolate the existing input and connect a temporary input. GDS-2 is tap type enclosure and GDS-3 is a pass-thru solution where the wiring is running through the enclosure.



GDS-1



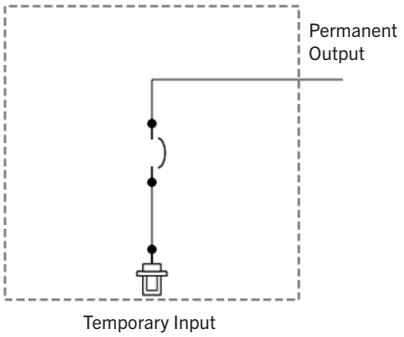
GDS-2



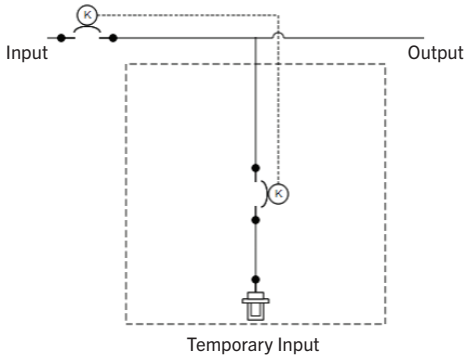
GDS-3

ONE-LINE DRAWINGS (CONT.)

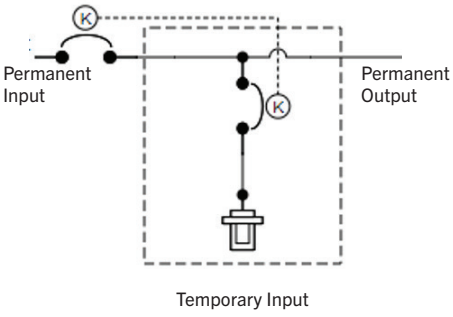
Single Breaker Docking Station (SBDS): SBDS-1 is another tapping solution, but includes a breaker on the temporary input. Having the breaker on the input such as SBDS-1, SBDS-2, and SBDS-3 allows for the end user to safely use a generator that may have a greater ampacity then the building can support. SBDS-2 and SBDS-3 use Kirk-key breakers to transition between the permanent and temporary sources. SBDS-4 is another pass-thru option and uses a blocking panel to prevent the interconnection of the two sources.



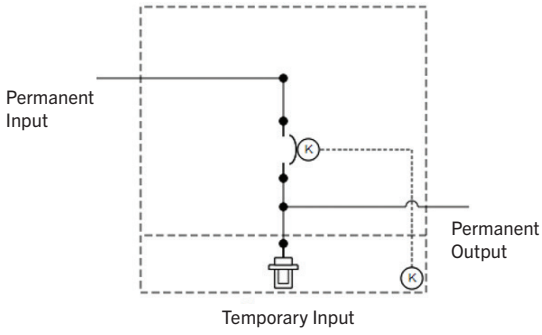
SBDS-1



SBDS-2

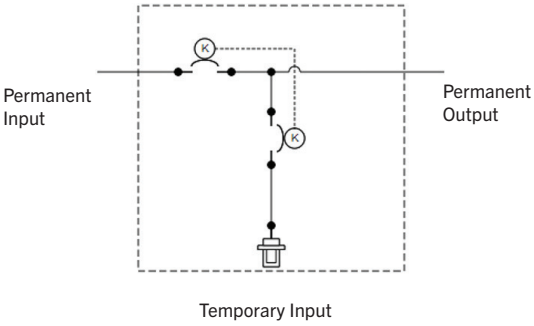


SBDS-3



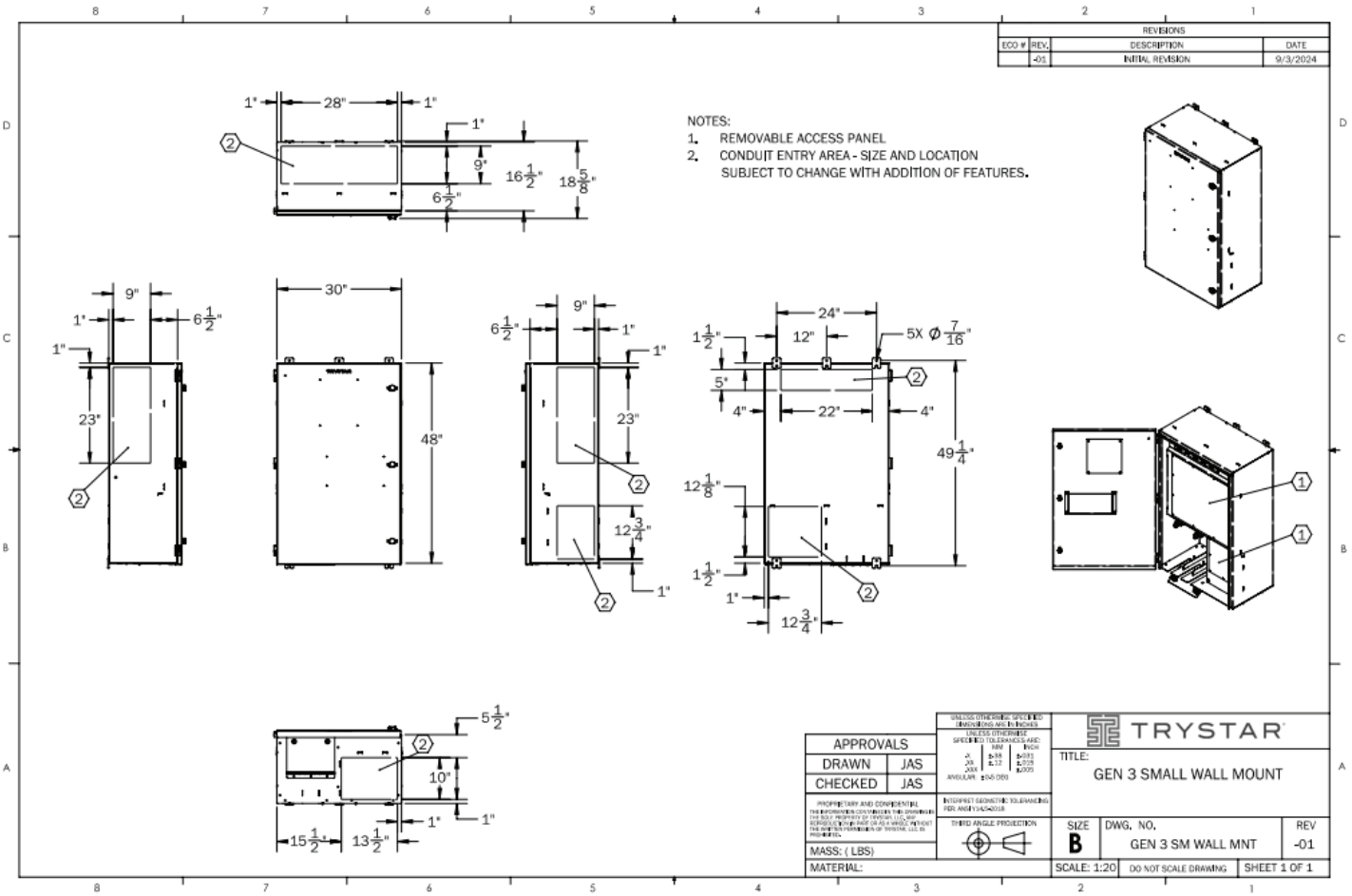
SBDS-4

Dual Breaker Docking Station (DBDS): Is another common solution. Here, we use 2 breakers within a single enclosure that are interlocked to transfer from one source to another.



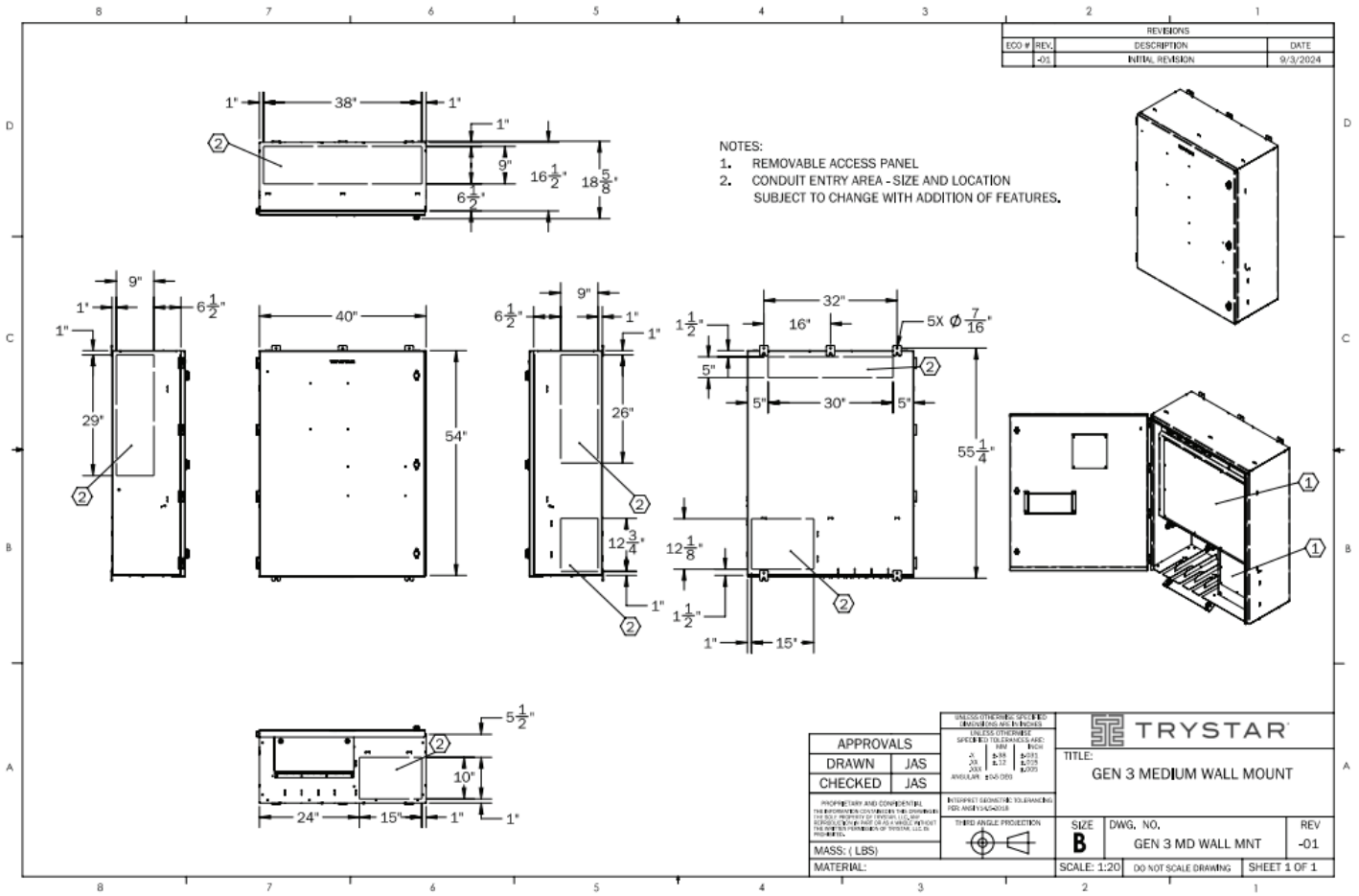
DBDS-1

PRODUCT DRAWINGS

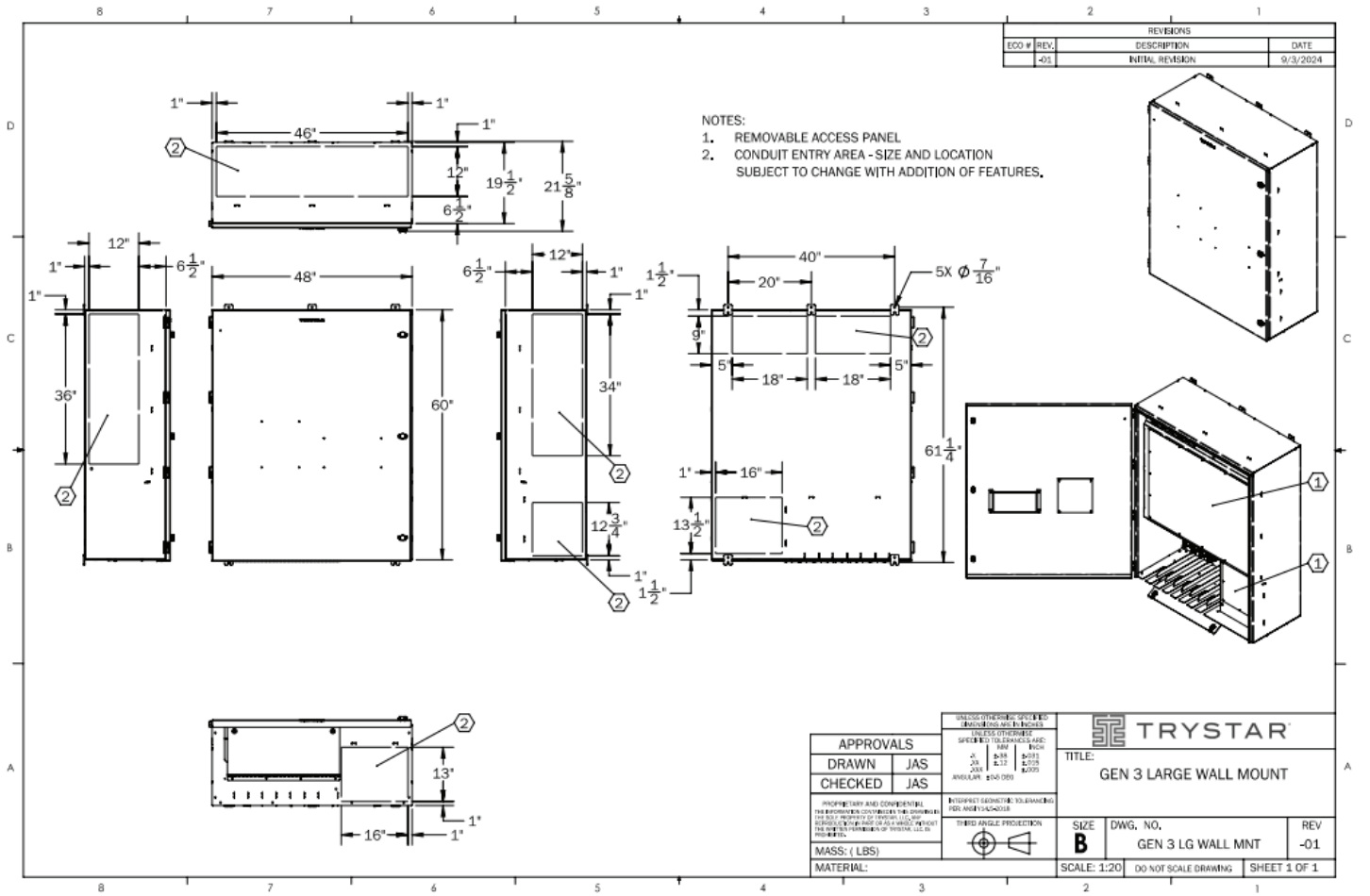


Small Wall Mount Single Purpose Docking Station

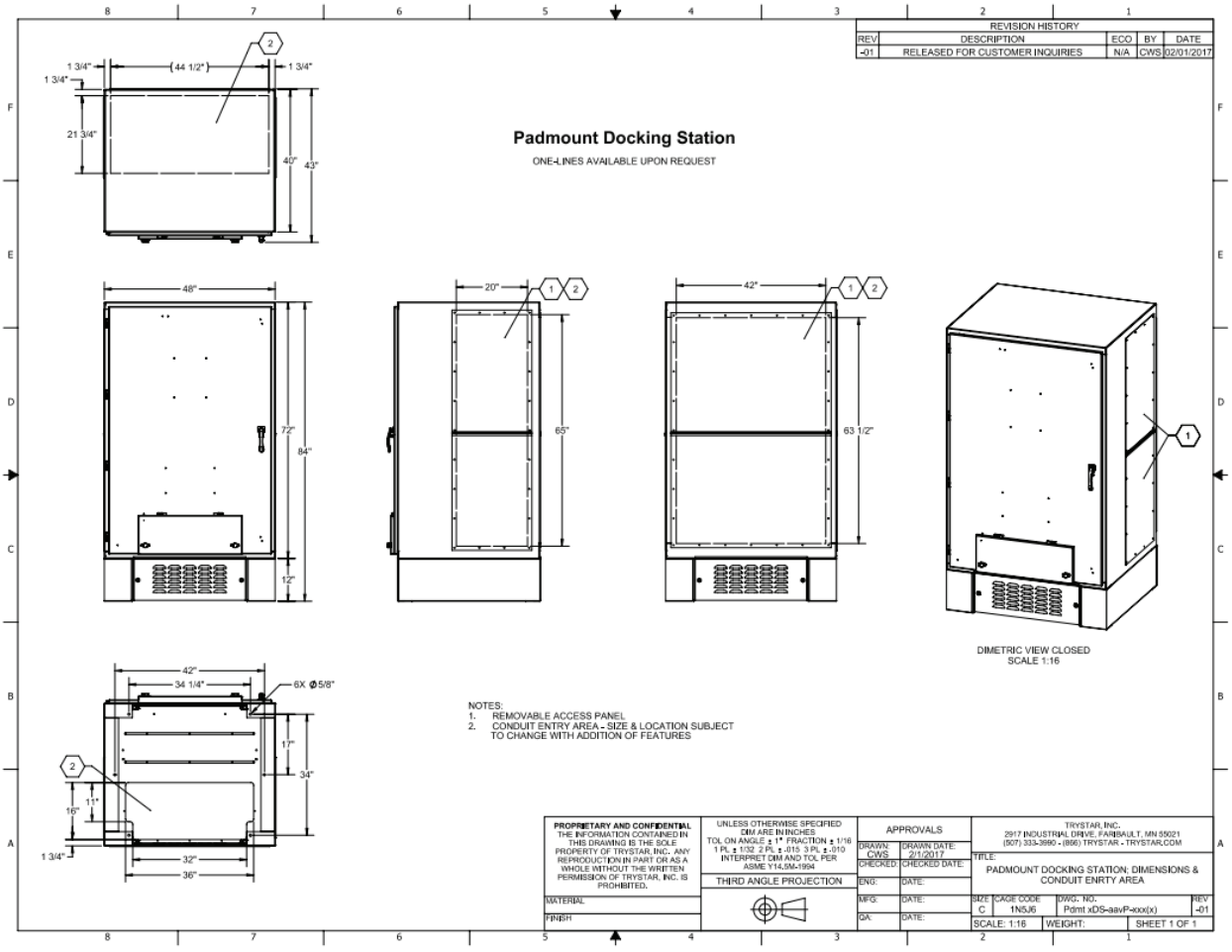
PRODUCT DRAWINGS



Medium Wall Mount Single Purpose Docking Station



Large Wall Mount Single Purpose Docking Station



Padmount Single Purpose Docking Station

ORDERING INFORMATION

Catalog no.	Description
GDS	Non-Breaker Docking Stations, Dual Purpose
XBDS	**S**B = Single / **D**B = Dual / **T**B = Triple Breaker Docking Station, Dual Purpose

