

Pre-Configured Industrial Distribution Frame (IDF) with G5 Access Control

North America

PANDUIT[®]
SPECIFICATION SHEET

SPECIFICATIONS

Rack-mount Ethernet switches shall be deployed and protected with an industrial distribution frame (IDF) enclosure with G5 Access Control, which meets UL 508A, UL Type 4/12, IP55, and CE. The IDF with G5 access control shall be thermally and spatially validated in environments up to 50°C. There shall be a wall mount option with secure front and rear switch access. A G5 electronic swinghandle with built-in low frequency (125 kHz) card reader, hub, harness, and intelligent power distribution unit (iPDU) shall be pre-installed. The IDF with G5 access control shall accommodate two distribution layer switches or two access layer switches for commonly used copper and fiber-based deployments. A standardized, pre-configured equipment and accessory layout shall be included.



TECHNICAL INFORMATION

Standards:	UL 508A Standard for Industrial Control Panels, cUL Listed per CSA, UL Type 4/12, IP55 Rated, and CE
Dimensions L x W x H:	24.09 in. x 23.62 in. x 31.06 in. (612mm x 600mm x 789mm)
Mounting:	Wall mount
Material and color:	Mild steel enclosure with RAL7035 light-gray polyester powder paint
Thermal analysis:	Validated to 50°C with recommended AC unit
Card proximity distance:	2.75 in. (70mm)
iPDU product family:	MI Series: Ability for aggregate power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity

KEY FEATURES AND BENEFITS

G5 intelligent power distribution unit (iPDU):	Monitors power and environment by continuously scanning for electrical circuit overloads and physical environmental conditions that place critical IT and OT equipment at risk
Comprehensive and accurate: energy data measurement	Efficiently use power resources, make informed capacity planning decisions, and improve uptime resulting in energy and money savings
Pre-Configuration:	Reduces time required for planning, designing, procurement, and installation resulting in up to 25% faster implementation
Defined equipment locations and cable routings:	Incorporate Panduit [®] developed best practices in connectivity, cable management, wiring, and grounding to ensure network reliability

APPLICATIONS

The Pre-Configured IDF with G5 Access Control is engineered to deploy and protect 19" rack mount switches on the factory floor in an industrial network. Consistent design, equipment placement, and cable management minimize engineering and installation time resulting in faster implementation. Access control and power distribution capabilities protect critical IT equipment while saving energy and money. With UL Type 4/12 and IP55 ratings, the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Networks and allows easy deployment of cabling subsystem TIA-1005.

Pre-Configured IDF with G5 Access Control

12RU: ZDF242430DA2

Panduit Products, Ordered Separately

Small diameter patch cords: UTP28SP8INBU

Small diameter-shielded patch cords: STP28X0.2MBU

Mini-Com[®] Modules, Cat 6, RJ45: CJ688TGBU

Mini-Com[®] Shielded Modules, Cat 6A, RJ45: CJS6X88TGBUY

Cat 6 UTP Copper Cable, Riser: PUR6004BU-UY

LC OptiCom[®] OM3/OM4 FAP: FAP12WAQDLCZ
FAP6WAQDLCZ

Opti-Core[®] Fiber Optic Patch Cords, LC to LC MM, Duplex: FX2ERLNLNSNM001

Opti-Core[®] OM3 Fiber Optic Distribution Cable, MM, Riser: FODRX24Y

LC OptiCam[®] OM3/OM4 Duplex FiberOptic Connectors: FLCDMCXAQY

StructuredGround[™] Bonding Cage Nuts and Screws, Green, #12-24: CNB4K

Cage Nut and Screws #12-24: CNWS1224-C

Environmental Monitoring Sensors, Ordered Separately

Temperature: EA001

Temperature + Humidity: EB001

Three Temperature + Humidity: EC001

Water Rope Leak: ED001

Water Spot Leak: EE001

Three Sensor Input Hub: EF001

Other Equipment, Ordered Separately

nVent T-Series Compact AC Unit: T200216G100
T200226G100

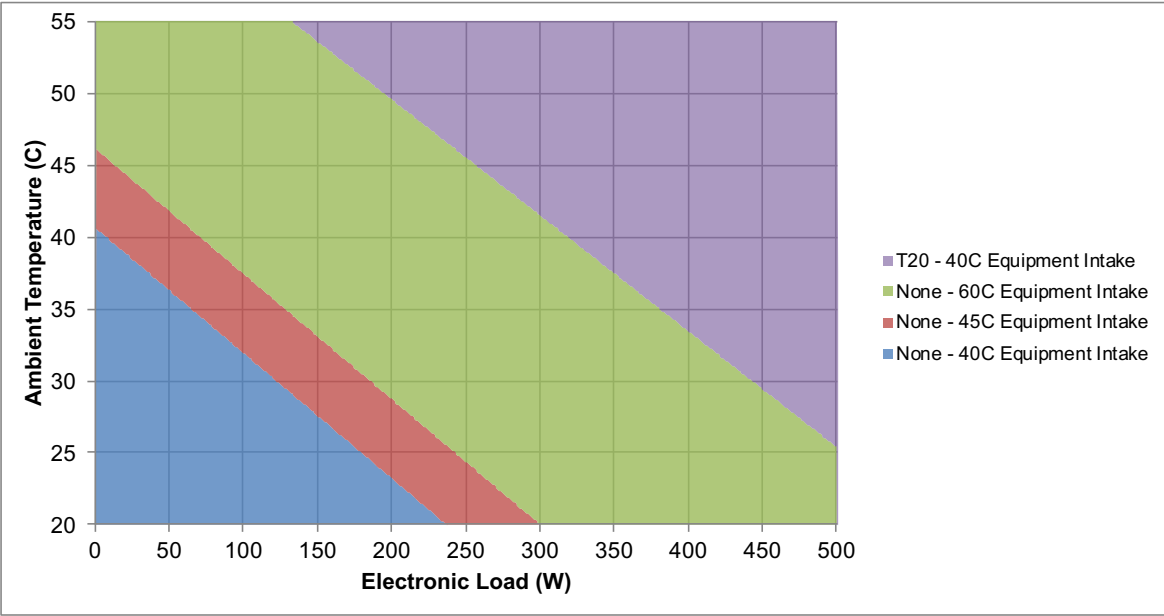
nVent Fan and Exhaust Grille Kit: HF0516414
HG0500404



All Part Numbers Compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to the United States.

Pre-Configured Industrial Distribution Frame (IDF) with G5 Access Control

OPERATING RANGE WITH AIR CONDITIONING



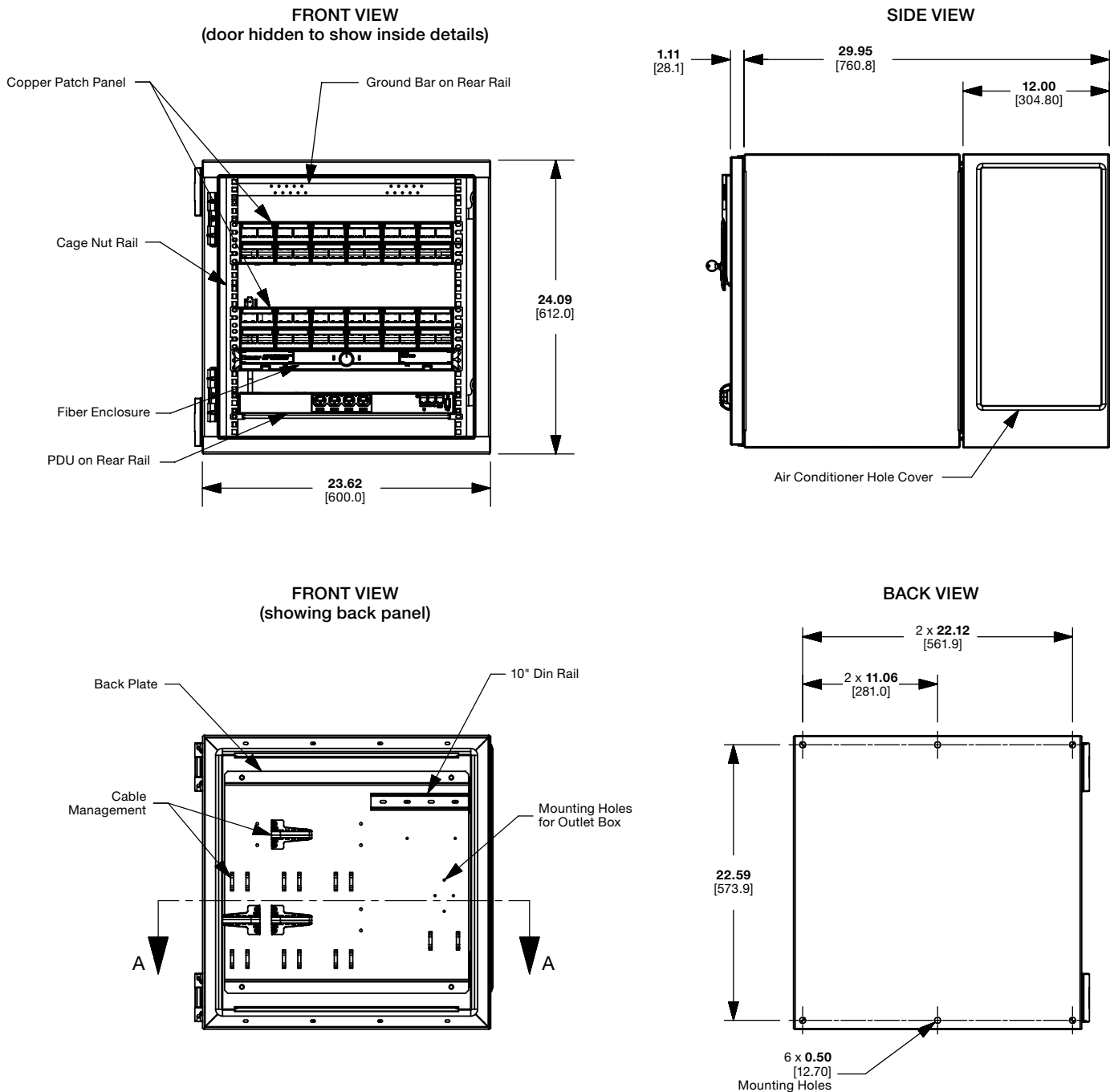
ADDITIONAL SPECIFICATIONS

Region	Part Number	Enclosure Type	Switch Deployment	iPDU Series	PDU Part Number	Input Current per Phase
NA	ZDF242430DA2	4/12 steel	2 access and up to 3 distrobution	Monitor Input	P08D09M	15

Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Electronic Swinghandle
1U	5-15P	1.4	8	(8)5-20R	ACF05

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ENGINEERING DRAWINGS



Dimensions are in inches. [Dimensions in brackets are metric].

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