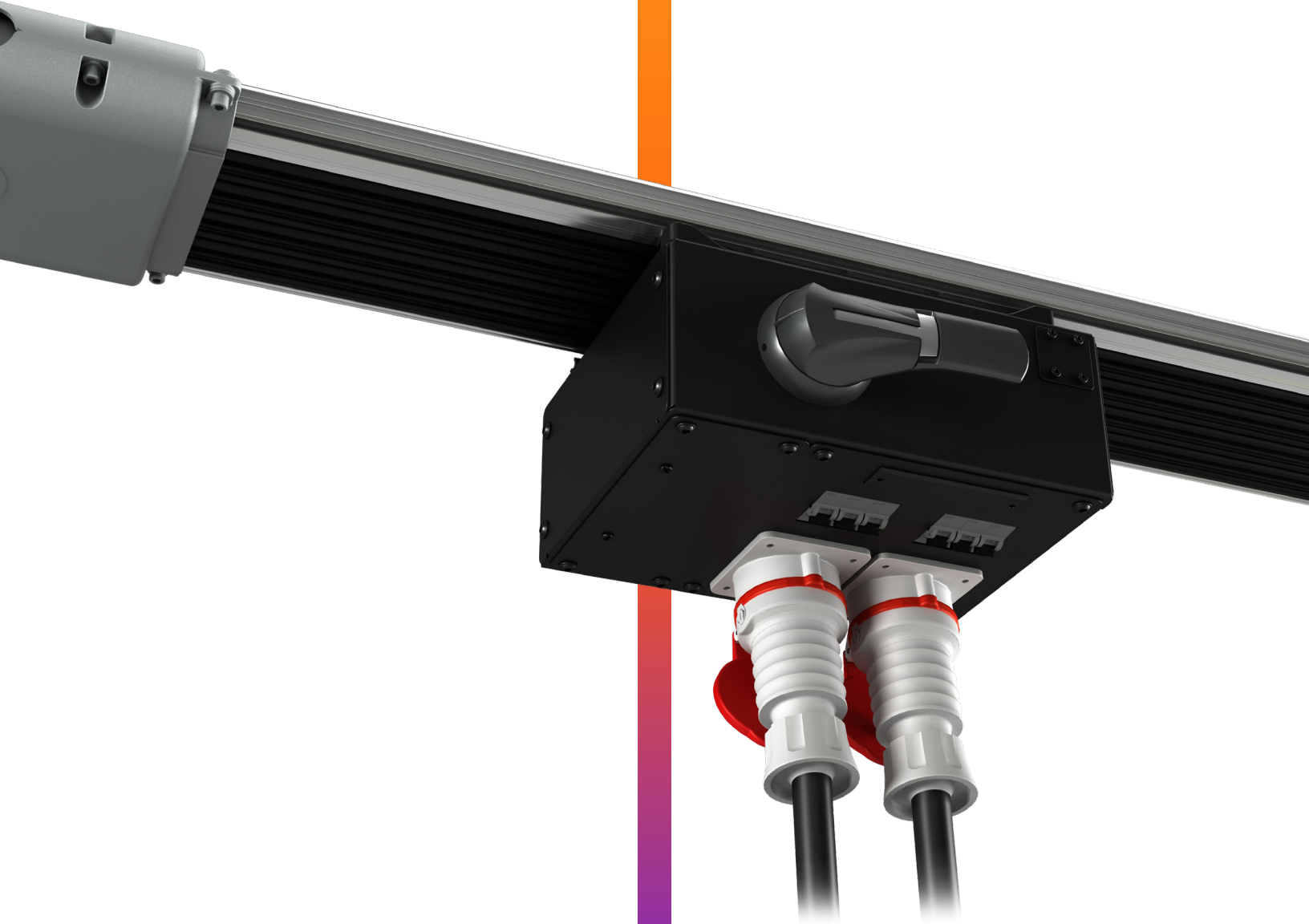




Vertiv™
PowerBar iMPB
IEC- Tap Off Units



Vertiv™ PowerBar iMPB Tap Off Units

Our data center customers benefit from unparalleled flexibility to adapt as their needs evolve, thanks to the innovative overhead power distribution system of the Vertiv™ PowerBar iMPB, offering seamless integration and scalable design. Supported by our robust global manufacturing network and efficient inter-regional product transfers, we effectively mitigate supply chain disruptions. This streamlined approach accelerates deployment, minimizing delays and ensuring smooth operations. With Vertiv's expertise, we simplify the design and integration of your entire power chain, delivering a tailored solution that sets us apart in offering unmatched, customized power solutions in the market.



Key Product Features

- Scalable: works in centers of any size.
- Flexible: supports myriad connection configs.
- Low Lead Times: Leaner lead times.
- Eco-Friendly: Lighter, easy to recycle aluminum conductor.
- Modular: Add tap-off boxes anywhere.
- Open track: Changes made easy.
- Integration: Works with Vertiv™ Switchgear and power products.
- Safe: IP2X/3X finger-safe rated.
- Easy install: thanks to sandwich-style joints.
- IEC 61439-6 compliant.

Overview

The Vertiv™ Powerbar iMPB is a medium power encased track busway system offering a variety of capacity and connection configurations to match your IT rack equipment requirements. With a range of 160A - 1250A, this aluminium chassis IP2X-rated busway provides optimal flexibility.

Ideally Suited For:

- Data centers of any size.
- Data centers with frequent or planned configuration changes.
- Single or dual-bus configurations.
- Raised and non-raised floors.

Benefits:

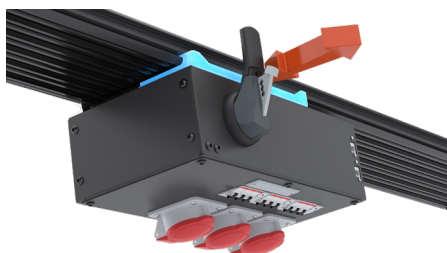
- Finger / touch safe IP2X certified.
- Live plug-n-play with the add-on capability of tap-off boxes.
- Solid Joint Pack construction.
- Open-face track allows for tap-off boxes to be placed anywhere along the busway.
- Tap-off boxes have mechanical and electrical interlocks utilizing an earth-first, break-last safety feature.
- Industry's most reliable and user friendly plug-in tap-off box design.

Tap Off Units

iMPB tap off units are engineered with the safety of the installer and user as the key criteria.

All tap off units have an 'earth first, break last' safety feature and can be safely installed using Powerbar's SafeWork Technology.

1. The units interlock onto the busway with a ground strip. This ensures that the ground is the first point of contact with the busbar system during installation.
2. The mechanical interlock secures the unit to the bar using high tensile strength lockable hardware which cannot be fitted incorrectly.
3. Once fitted to the bar, the engager handle can be turned. This lifts the contacts into the busway and has a positive lock once fully rotated.



Tap-off Box Benefits:

- Change power requirements easily.
- Plug and play to rack/rack PDU.
- No interruption to existing critical loads.
- No electrician required for installation.
- Amps and receptacles sized to meet server needs.
- Relocate and reuse tap-off boxes anywhere along the busway to maximize investment.

Tap-off Box Features:

- Up to 125A per tap off Box.
- Up to 600VAC.
- 15 to 25kA short circuit breaking capacity with higher kA circuit breakers available upon request.
- Accommodates up to 5 receptacles per box.
- Flush-mounted receptacles or drop cords with connectors.
- Can be placed anywhere along the busway.
- Tap-off boxes are easily installed on energized busway and are fully interchangeable.
- Tap-off units can be fitted with IEC 309 receptacles, NEMA receptacles or whip cords as required.

Metering

Vertiv™ PowerBar iMPB offers advanced metering which allows the user to monitor, integrate and display data centre power information via RJ45 Ethernet plug-in connections.

Final circuit monitoring is integrated into the busway to measure the total load of the busbar and tap off units. Power calculations of total input power for each busway run can also be provided.



Options:

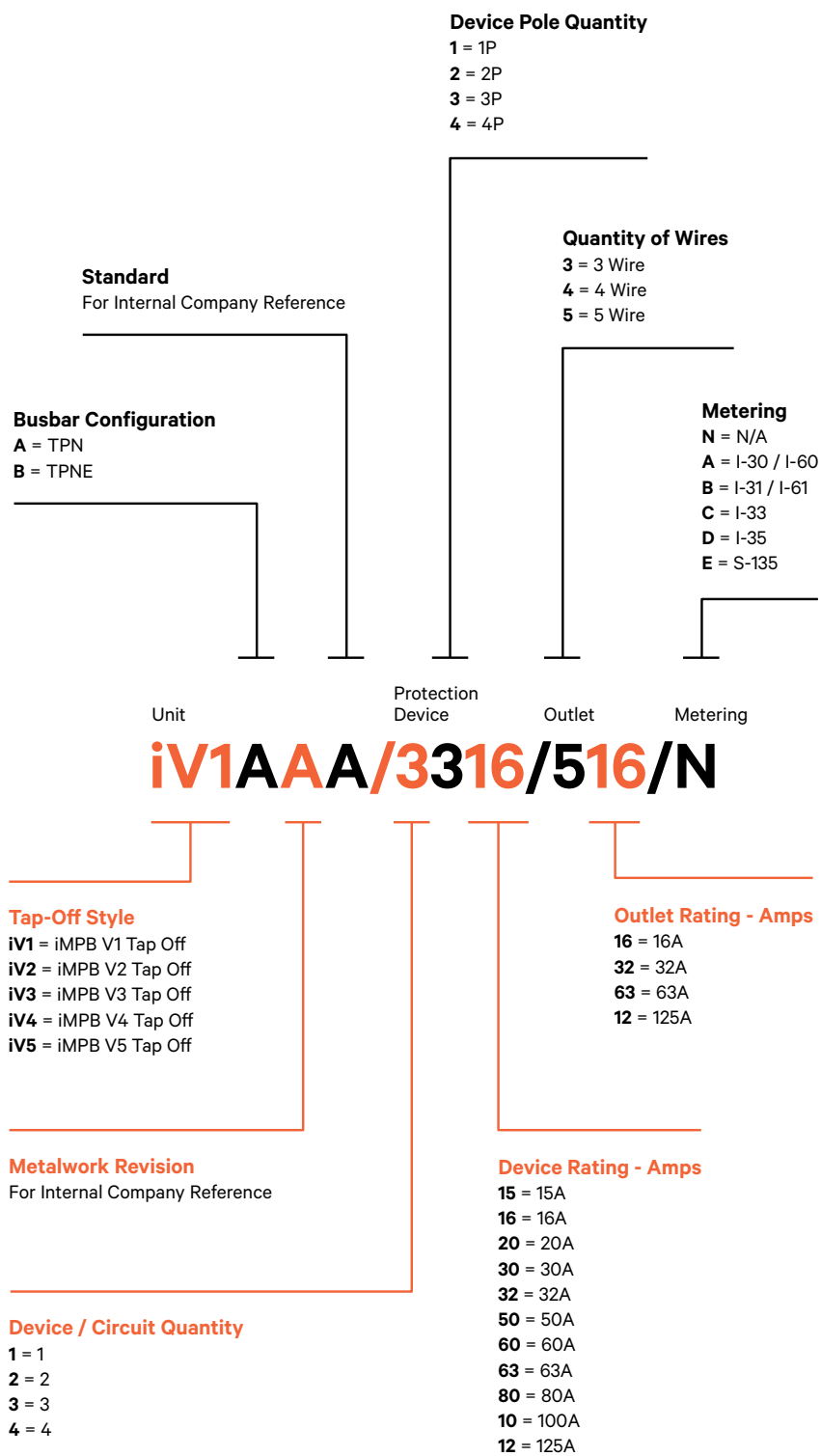
- Voltage for all three phases
- Current - phase, ground and neutral
- kW, KVa, kVAR, power factor, kWH

Advanced options:

- Voltage total harmonic distortion
- Overvoltage/ undervoltage alarm threshold
- Minimum and maximum current
- Demand and percentage load current
- Crest factor
- Warning and alarm threshold

It is also possible to monitor closed and trip status for each MCB. The status signals are fed back to the end feed using the integrated Ethernet cabling. The modules run in a daisy chain from meter to meter utilising the side channel in the housing for cabling.

Part Code Structure



Vertiv™ PowerBar iMPB Tap Off Units

iMPB Range V1

iMPB-TOB-V1

- In steel enclosure
- Outgoing device - MCB



Tap-off with MCB

Current (A)	Voltage (V)	Approx. Weight (kg)	Dimensions (mm)		
			a	b	c
32	440	4.5	130	232.5	233

Tap-off Style	Busbar Config	Metalwork Revision	Standard	Device/Circuit Quantity	Device Pole Quantity	Device Rating (A)	Quantity of Wires	Outlet Rating (A)	Metering	Part No.
iMPB V1 Tap Off	A	A	A	1	3	15	5	16	N	iV1AAA ¹ /1315 ² /516 ³ /N
					1	16	3	16		iV1AAA ¹ /1116 ² /316 ³ /N
					3	20	5	32		iV1AAA ¹ /1320 ² /532 ³ /N
					3	30	5	32		iV1AAA ¹ /1330 ² /532 ³ /N
					1	32	3	32		iV1AAA ¹ /1132 ² /332 ³ /N

¹: Specify busbar configuration and standard

²: Specify circuit quantity, device pole quantity, device rating

³: Specify quantity of wires and outlet rating

iMPB Range V2

iMPB-TOB-V2

- In steel enclosure
- Outgoing device - MCB



Tap-off with MCB

Current (A)	Voltage (V)	Approx. Weight (kg)	Dimensions (mm)		
			a	b	c
32	440	6	130	232.5	323

Tap-off Style	Busbar Config	Metalwork Revision	Standard	Device/Circuit Quantity	Device Pole Quantity	Device Rating (A)	Quantity of Wires	Outlet Rating (A)	Metering	Part No.
iMPB V2 Tap Off	A	A	A	2	3	15	5	16	N	iV2AAA ¹ /2315 ² /516 ³ /N
					1	16	3	16		iV2AAA ¹ /2116 ² /316 ³ /N
					3	20	5	32		iV2AAA ¹ /2320 ² /532 ³ /N
					3	30	5	32		iV2AAA ¹ /2330 ² /532 ³ /N
					4	32	5	32		iV2AAA ¹ /2432 ² /532 ³ /N

¹: Specify busbar configuration and standard

²: Specify circuit quantity, device pole quantity, device rating

³: Specify quantity of wires and outlet rating

Vertiv™ PowerBar iMPB Tap Off Units

iMPB Range V3

iMPB-TOB-V3

- In steel enclosure
- Outgoing device - MCB



Tap-off with MCB

Current (A)	Voltage (V)	Approx. Weight (kg)	Dimensions (mm)		
			a	b	c
63	440	7	130	232.5	413

Tap-off Style	Busbar Config	Metalwork Revision	Standard	Device/Circuit Quantity	Device Pole Quantity	Device Rating (A)	Quantity of Wires	Outlet Rating (A)	Metering	Part No.
iMPB V3 Tap Off	A	A	A	3	3	15	5	16	N	iV3AAA ¹ /3315 ² /516 ³ /N
					2	16	3	16		iV3AAA ¹ /3216 ² /316 ³ /N
					3	20	5	32		iV3AAA ¹ /3320 ² /532 ³ /N
					3	30	5	32		iV3AAA ¹ /3330 ² /532 ³ /N
					1	32	3	32		iV3AAA ¹ /3132 ² /332 ³ /N

¹: Specify busbar configuration and standard

²: Specify circuit quantity, device pole quantity, device rating

³: Specify quantity of wires and outlet rating

iMPB Range V4

iMPB-TOB-V4

- In steel enclosure
- Outgoing device - MCB



Tap-off with MCB

Current (A)	Voltage (V)	Approx. Weight (kg)	Dimensions (mm)		
			a	b	c
63	440	8	130	232.5	503

Tap-off Style	Busbar Config	Metalwork Revision	Standard	Device/Circuit Quantity	Device Pole Quantity	Device Rating (A)	Quantity of Wires	Outlet Rating (A)	Metering	Part No.
iMPB V4 Tap Off	A	A	A	4	1	15	3	16	N	iV4AAA ¹ /4115 ² /316 ³ /N
	A	A	A	4	1	16	3	16	N	iV4AAA ¹ /4116 ² /316 ³ /N
	A	A	A	4	1	20	3	32	N	iV4AAA ¹ /4120 ² /332 ³ /N
	A	A	A	4	1	30	3	32	N	iV4AAA ¹ /4130 ² /332 ³ /N
	A	A	A	4	1	32	3	32	N	iV4AAA ¹ /4132 ² /332 ³ /N

¹: Specify busbar configuration and standard

²: Specify circuit quantity, device pole quantity, device rating

³: Specify quantity of wires and outlet rating

Vertiv™ PowerBar iMPB Tap Off Units

iMPB Range V5

iMPB-TOB-V5

- In steel enclosure
- Outgoing device - MCB



Tap-off with MCB

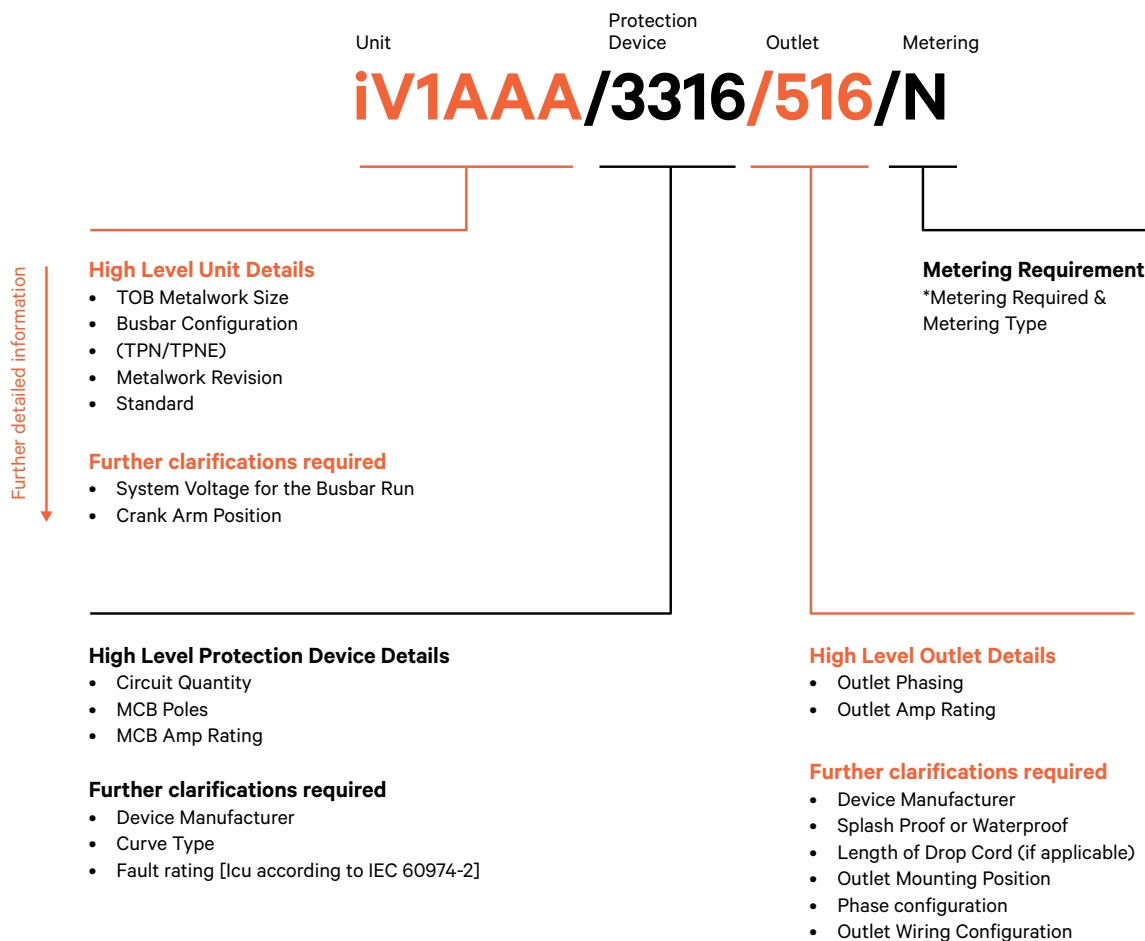
Current (A)	Voltage (V)	Approx. Weight (kg)	Dimensions (mm)		
			a	b	c
63	440	9	130	232.5	593

Tap-off Style	Busbar Config	Metalwork Revision	Standard	Device/ Circuit Quantity	Device Pole Quantity	Device Rating (A)	Quantity of Wires	Outlet Rating (A)	Metering	Part No.
iMPB V5 Tap Off	A	A	A	5	1	15	3	16	N	iV5AAA ¹ /5115 ² /316 ³ /N
	A	A	A	5	1	16	3	16	N	iV5AAA ¹ /5116 ² /316 ³ /N

¹: Specify busbar configuration and standard
²: Specify circuit quantity, device pole quantity, device rating
³: Specify quantity of wires and outlet rating

Unique Part Code Order

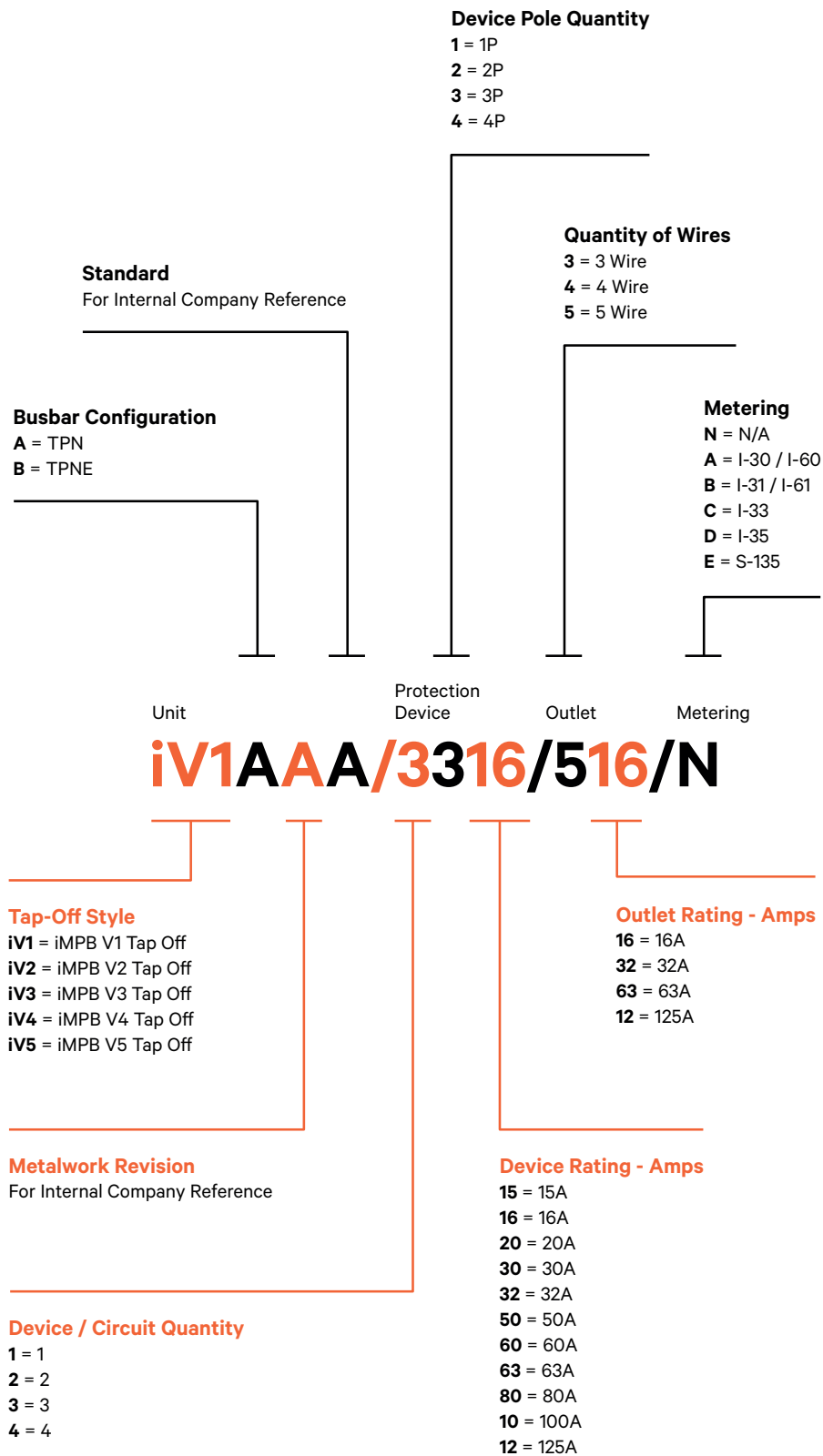
Catalogue Part Number - 17 Characters



Unique Part Order Code - 34 Characters

iV1AAASA/3SE316CC/G516R6SXXFT01/N

Vertiv™ PowerBar iMPB Tap Off Units



Standard

For Internal Company Reference

Busbar Configuration

A = TPN
B = TPON
C = TPNE
D = TPONE

Metalwork Revision

For Internal Company Reference

Outlet Details

See Page 3 for breakout

Unit

Protection Device

Outlet

Metering

iV1AAASA/3SE316CC/G516R6SXXFT01/N

Tap-Off Style

iV1 = iMPB V1 Tap Off
iV2 = iMPB V2 Tap Off
iV3 = iMPB V3 Tap Off
iV4 = iMPB V4 Tap Off
iV5 = iMPB V5 Tap Off

Voltage

A = 400/230V

Crank Arm Position

S = Standard
R = Reverse

Metering Type

N = N/A No Metering
A = I-X0 I-30 / I-60
B = I-X1 I-31 / I-61
C = I-X3 I-33
D = I-X5 I-35
E = S-135 S 135

Other options available
on request

Protection Device Details

See Page 2 for breakout

Vertiv™ PowerBar iMPB Tap Off Units

Drop Cord Length (If applicable)

XX = XX

05 = 0.5m 25 = 2.5m

10 = 1m 30 = 3m

15 = 1.5m 35 = 3.5m

20 = 2m 40 = 4m

Outlet Manufacturer

H = HUBBELL

G = GEWISS

C = CEENORM

B = BULGIN

M = MK ELECTRIC

N = No Outlet (HARDWIRED)

A = ABB

L = LEVITON

Wiring Config

S01	L1	Single (1P+N+E)
S02	L2	
S03	L3	
S04	L1 - L2	
S05	L3 - L1	
S06	L2 - L3	
S07	L1 - L2 - L3	
S08	L1 - L2 - L3 - L1	
S09	L2 - L3 - L1 - L2	
S10	C - A - B - C	
S11	A - B - C - A - B	Three (3P+N+E)
S12	B - C - A - B - C	
S13	C - A - B - C - A	
S14	A - All Circuits	
S15	B - All Circuits	
S16	C - All Circuits	
T01	A/B/C - All Circuits	

Outlet

G516R6SXXFT01

Outlet Config / Type - Wire Qty / Amp / Type / Reference h / IP (IEC only)

IEC Config / Type	
316R6S	IEC309 - 16A 1P3W 6Hr Blue IP44 Receptacle
516R6S	IEC309 - 16A 3P5W 6Hr Blue IP44 Receptacle
316C6S	IEC309 - 16A 1P3W 6Hr Blue IP44 Connector
516C6S	IEC309 - 16A 3P5W 6Hr Blue IP44 Connector
316R6W	IEC309 - 16A 1P3W 6Hr Blue IP66 Receptacle
516R6W	IEC309 - 16A 3P5W 6Hr Blue IP66 Receptacle
316C6W	IEC309 - 16A 1P3W 6Hr Blue IP66 Connector
516C6W	IEC309 - 16A 3P5W 6Hr Blue IP66 Connector
332R6S	IEC309 - 32A 1P3W 6Hr Blue IP44 Receptacle
532R6S	IEC309 - 32A 3P5W 6Hr Blue IP44 Receptacle
332C6S	IEC309 - 32A 1P3W 6Hr Blue IP44 Connector
532C6S	IEC309 - 32A 3P5W 6Hr Blue IP44 Connector
332R6W	IEC309 - 32A 1P3W 6Hr Blue IP66 Receptacle
532R6W	IEC309 - 32A 3P5W 6Hr Blue IP66 Receptacle
332C6W	IEC309 - 32A 1P3W 6Hr Blue IP66 Connector
532C6W	IEC309 - 32A 3P5W 6Hr Blue IP66 Connector
363R6W	IEC309 - 63A 1P3W 6Hr Blue IP66 Receptacle
563R6W	IEC309 - 63A 3P5W 6Hr Blue IP66 Receptacle
363C6W	IEC309 - 63A 1P3W 6Hr Blue IP66 Connector
563C6W	IEC309 - 63A 3P5W 6Hr Blue IP66 Connector
3125R6W	IEC309 - 125A 1P3W 6Hr Blue IP66 Receptacle
5125R6W	IEC309 - 125A 3P5W 6Hr Blue IP66 Receptacle
3125C6W	IEC309 - 125A 1P3W 6Hr Blue IP66 Connector
5125C6W	IEC309 - 125A 3P5W 6Hr Blue IP66 Connector

Outlet Position

F = Front

E = Earth Side

