

# Power Distribution Unit

# PL20

## Application and Operational Considerations

**Application:** Considered application of this Distribution Unit, is for connection from a 3ph 400V 400A max load supply, to downstream units requiring 400A Powerlock or 125A - 63A - 32A 400V 3phase connectivity to a maximum load of 400A combined from all output sockets, per phase. The outputs are balanced off each L1, L2 & L3 incoming phase.

**Note:** The total load drawn per phase should be checked for optimum balance of all phases, with minimal differences, and not exceed the stated amperage of connectivity on any of the output panel sockets. Unit should **NOT** run on continuous full load for long periods of time on any of the connections. Unit shall be installed and used by a competent Electrician whom shall ensure that application design, installation and testing is compliant with BS7671.



## Unit Specification

Unit Standard:	<b>BS EN 61439-3</b>
Unit Guide Weight:	
Approx Dim:	
Enclosure (IP):	<b>IP44</b>
Impact (IK)	<b>IK&gt;06</b>
Unit Max. Amps:	<b>400A</b>
Voltage (V):	<b>400V</b>
Frequency Hz:	<b>50Hz</b>
Short Circuit Rating:	<b>6kA</b>
Continuous Load:	<b>70%</b>

## Supply Connection

Inlet Standard:	<b>BS EN 60309-1+2</b>
Amperage (A):	<b>400</b>
Voltage:	<b>400</b>
Connection:	<b>3ph+N+E Powerlock Set</b>

## Load Connection

Outlets Standard:	<b>BS EN 60309-1+2</b>
3ph Voltage:	<b>400</b>

## Supply Isolation

Switch Standard:	<b>BS EN 60947-2</b>
Switch	<b>400A</b>

## Connectivity

3x 125A Sockets	<b>3ph+N+E</b>
4x 63A Sockets	<b>3ph+N+E</b>
4x 32A Sockets	<b>3ph+N+E</b>
Powerlock Source	<b>3ph+N+E Set</b>

## Protection Devices

Device	Voltage	Rating Type & Amperage	Character - mA	kA - Short Circuit Rating	Device Standard(s)
<b>MCBs + Shunts</b>	<b>400</b>	<b>C125</b>		<b>10</b>	<b>BS EN 60898</b>
<b>3x Shunts with VELRs</b>					
<b>3x MCBs to VELRs</b>		<b>C2</b>		<b>6</b>	<b>BS EN 60898</b>
<b>4x MCBs + Shunts</b>	<b>400</b>	<b>C63</b>		<b>10</b>	<b>BS EN 60898</b>
<b>4x Shunts with VELRs</b>					
<b>3x MCBs to VELRs</b>		<b>C2</b>		<b>6</b>	<b>BS EN 60898</b>
<b>4x RCBOs</b>	<b>400</b>	<b>C32</b>	<b>30</b>	<b>6</b>	<b>BS EN 60898</b>