

ROCKSTARTER[®]

Integrated Multi-Voltage Switchgear & Protection

Description

415V, 690V, 1000V GPO (General Purpose Outlet)

Ampcontrol's Rockstarter is a multifunction, multi-voltage starter designed for use in underground hard rock mining, tunnelling and other industrial applications.

Rockstarter is a single power outlet, rated up to 250A and fully selectable for 415V, 690V and 1000V AC loads, incorporating an integrally designed circuit breaker, contactor and protection electronics all into one uniform designed unit.

Rockstarter provides all standard outlet protection functions, selectable pump and fan operating modes and Ampcontrol's wireless Outlet Test System. A user friendly, industrial strength colour touch screen provides fast and flexible configuration, control and monitoring.

Protection & Control Features

- AS/NZS 2081, AS/NZS 4871 and AS/NZS 3000 compliant
- Short Circuit, Overload, Earth Leakage, Earth Continuity, Earth Fault Lockout, Frozen Contactor
- Pump protection (Anti-Snore Mode)
- Fan protection (Burp Mode)
- Remote start/stop
- Integral Outlet Test System with automated record keeping
- Auxiliary I/O
- E-stop, for local and upstream tripping
- Ethernet network connection port
- Extensible to 4 units
- Post-blast start and Auto Restart after power loss options
- *Load Connection Module (LCM) providing machine identification (plug & play)
- *Integral RFID tag reader for settings changes & resets user traceability
- Cable Gland or *Plug/Receptacle terminations

*Optional

Application

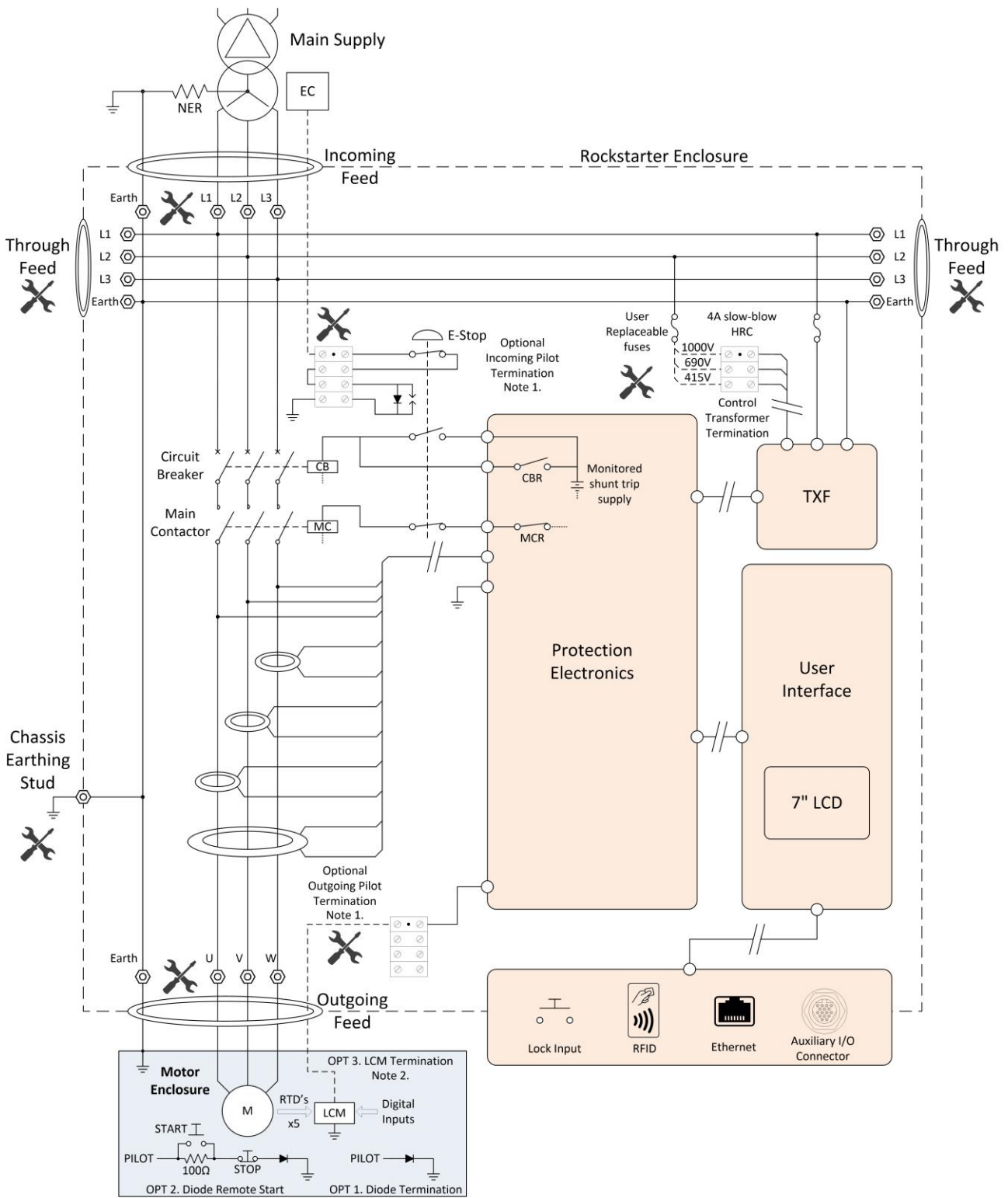
Rockstarter's integrated approach offers a more versatile solution to traditional designs by providing all of the features and protection as fully selectable enabling re-deployment in a wide range of applications.

Rockstarter's incoming and outgoing connections may be configured to suit either a gland cable entry (standard) or a restrained receptacle (option). Utilising the proprietary through-supply kit and wall mounting bar, installations are extensible with up to four Rockstarters connected to a single incoming supply.

Ampcontrol's integrated Outlet Test System (OTS) provides a fully automated and comprehensive outlet testing facility. The OTS enables Rockstarter to undergo routine testing quickly and easily, with all results uploaded to cloud storage when the tablet gains Internet access. This satisfies statutory testing requirements whilst also providing a convenient, secure and comprehensive record management tool. For more information, refer to the OTS datasheet and user manuals.



Connection Diagram



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System Overview



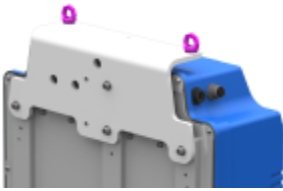


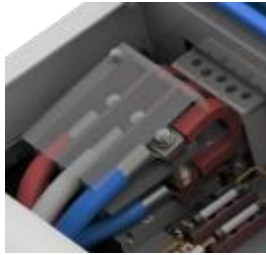



Specifications

General	
System Voltage	415V / 690V / 1000V
Fault Rating	20kA
Incoming Max Current	500A
Outlet Max Current	250A
Through Supply Max Current	250A
User Interface	7 inch touchscreen
Standards	
AS/NZS 3000, AS/NZS 2081, AS/NZS 4871	
Mechanical & Environmental	
Dimensions (H x W x D)	With Frame: 1161x707x383(mm) Without Frame: 840x575x230(mm)
Incoming & Outgoing Cable Max	120mm ² gland entry or AS/NZS 1299 - 300A receptacle
Weight – Rockstarter	78kg (excludes receptacles)
Weight – Mounting Frame	20kg
Operating Temperature Range	0°C to +40°C
IP Rating	IP65
Humidity	Between 10% relative humidity and the dew point, non-condensing
Segregation	Form 4(b,i,h)

Protection Functions

Earth Leakage	
Trip Times	Inst. – 500ms
Trip Levels	30 – 500mA
Earth Continuity	
Trip Times	Off / 100 – 500ms
Trip Levels (Series)	10 – 45Ω
Trip Levels (Shunt)	1500Ω
Latching Trip	ON / OFF
Frozen Contactor / Loss of Vacuum	
Back EMF Timer	2 – 20s
Loss of Vacuum Level	Off, 25VAC, 50VAC
Pump Protection (Optional)	
Sleep Mode	Incremental or Fixed
Snore Current	30 – 95% FLC
Sleep Time	0.5, 1, 2, 3, 4, 5, 10, 15, 20, 30, 60m
Fan Protection (Optional)	
Burp Cycles	1 – 4
Burp Cycle ON Time	1, 2, 3, 4, 5, 10, 15, 20s
Burp Cycle OFF Time	1, 2, 3, 4, 5, 10, 15, 20s
Post-Blast Start Timer	OFF, 0.5, 1, 2, 3, 4, 5, 10, 15, 20, 30, 60m

Protection Functions	
<i>Blast Pressure Level</i>	Very Low, Low, Medium, High, Very High
Over Load Protection	
<i>OL Model</i>	Very Inverse, Extreme Inverse, Motor Overload
<i>Time Multiplier</i>	0.05 – 30
<i>FLC</i>	2 – 250A
<i>Cooling Multiplier</i>	1.0 – 5.0
<i>Thermal Accumulator Start Block</i>	20% - 90%
Short Circuit Protection	
<i>Current Multiplier (trip level)</i>	1.5x – 12.5x FLC
<i>Time</i>	40 – 200ms
Under Voltage Protection	
<i>Set-point</i>	OFF, 40% - 95% of 1100V
Current Balance Protection	
<i>Set-point</i>	OFF, 5% - 50% imbalance
Under Current Protection	
<i>Set-point</i>	OFF, 30% - 95% FLC
Accessories	
Protective Steel Frame 	Wall Mount Kit 
Lifting Adaptor 	Through-Supply Extender Bus-Bar kit 
Termination Extension Kit (200mm) 	Dual Incomer Termination Caddy <i>*requires termination extension kit</i> 
Load Connection Module (LCM) 	Auxiliary Lighting Supply Extension Starter (240V 15A) <i>*Available 2019</i>
	Plant ID plate
Find Out More	
For more information on this product, contact Ampcontrol Customer Service on +61 1300 267 373 or customerservice@ampcontrolgroup.com or visit the Ampcontrol website: www.ampcontrolgroup.com	

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