

DATASHEET – VARIOSPEED®6 BATTERY BACKUP UNIT – CONTROLS GROUPED (VS6-BBU-CG)

PRODUCT CODE(S): 35002 / 35003
35008 / 35025

UNICLASS: L4231

EPIC: D25

VERSION: Issue M – July 2018



VARIOSPEED®6 BATTERY BACKUP UNIT – CONTROLS GROUPED (VS6-BBU-CG)

PRODUCT CODE

35002 (BBU1) - 35003 (BBU2) - 35008 (BBU3)
35025 (BBU4)

PRODUCT DESCRIPTION

The Variospeed®6 BBU-CG system is used for Smoke / Fire Curtain(s) fitted with 24Vdc permanent magnet electrical motors fitted with an internal 24Vdc electromagnetic brake, as standard. When the Smoke / Fire curtain(s) are fully retracted, the internal electromagnetic brake is powered, keeping the Smoke / Fire curtain(s) in their retracted position. Power to the motor is completely isolated, prolonging the life of the motor and maintaining manufacturers supply warranty.

The motors include built in short circuit and open circuit protection, meaning the curtains will deploy under total controlled gravity failsafe at a descent rate compliant with BS EN 12101 and BS8524 even if the motor wires are severed, i.e. shorted together or disconnected from the Motor Control Card (MCC).

OPERATION

In the event of an alarm signal the Smoke / Fire curtain(s) will immediately deploy to their Fire Operational Position (FOP) under Gravity Failsafe.

If there is a mains power failure the Smoke / Fire curtain(s) will be held in the retracted position for 30 minutes under Battery Backup (BBU) before being deployed to their Fire Operational Position (FOP). If an alarm signal is received during a mains power failure, the curtain(s) will deploy immediately to their Fire Operational Position (FOP). The curtain(s) will descend under Total & Controlled GFS (Total Gravity Failsafe).

A maximum of 4 Motor Control Cards (MCC's) can be incorporated inside the 500(h) x 400(w) x 210(d) cabinet. The size of the BBU-CG cabinet can be increased to accommodate a greater number of Motor Control Cards (MCC's).

The Battery Back-Up facility is provided by two 12V 7Ah batteries, which are constantly charged by the BBU.

SPECIFICATION

Power Input:
230Vac 50Hz dedicated supply

Power Rating (Maximum)		Weight:
BBU1	132 Watts	16 kg
BBU2	252 Watts	17.4 kg
BBU3	372 Watts	18.8 kg
BBU4	492 Watts	20.2 kg

Power Consumption (Normal)

BBU1	20 Watts
BBU2	26 Watts
BBU3	32 Watts
BBU4	38 Watts

Alarm Input:

Normally closed contact from fire alarm.
Open on alarm activation.

Outputs:

24Vdc to the Motor

Material:

Mild Steel

Finish:

RAL 7035 (Light Grey)

Dimensions (mm):

500(h) x 400(w) x 210(d)

A maximum of 4 motors.

*Contact Coopers Fire for dimensions of larger units.

IP Rating:

IP55

Temperature Range:

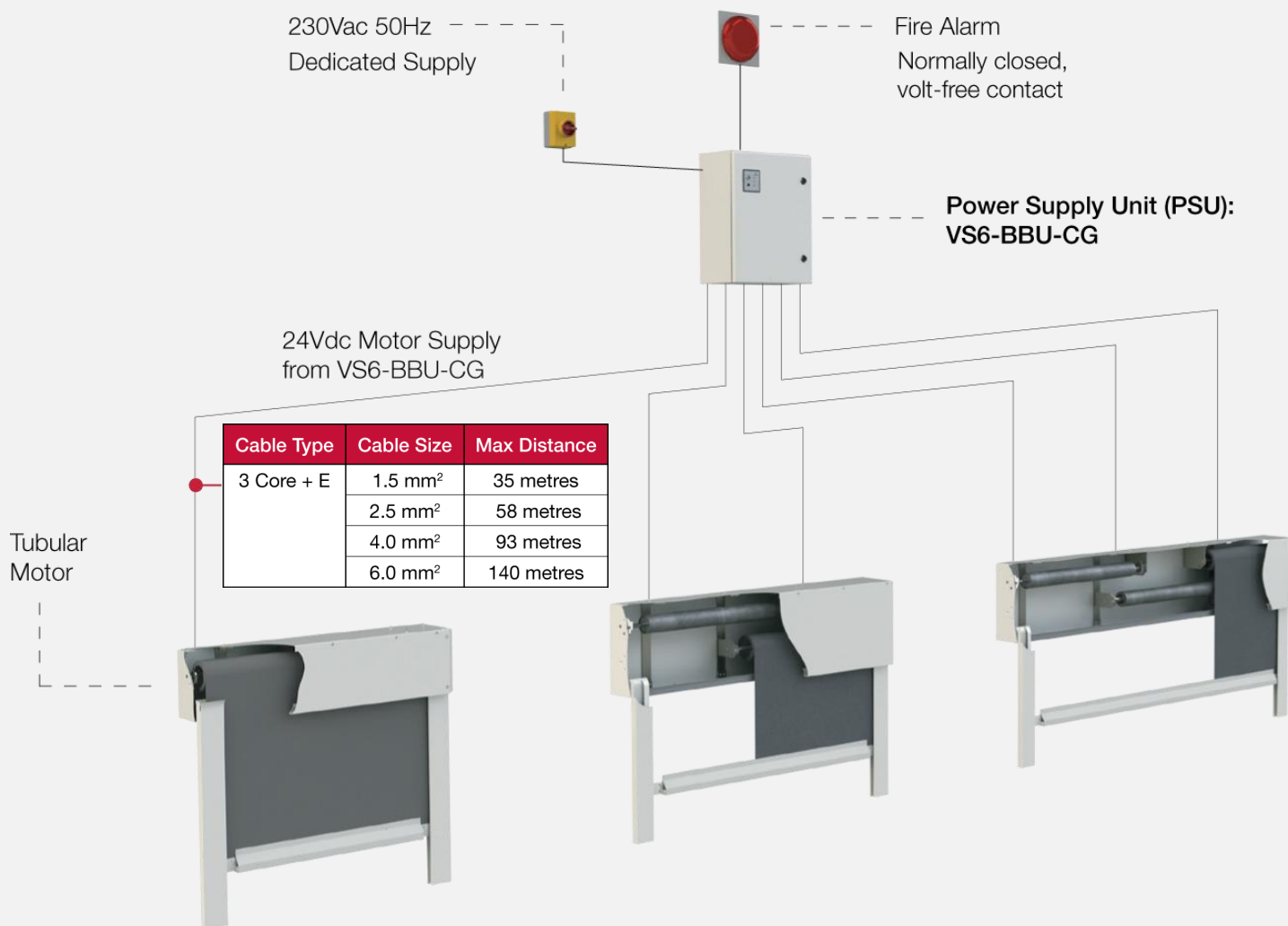
0°C to +50°C

Location:

Internal

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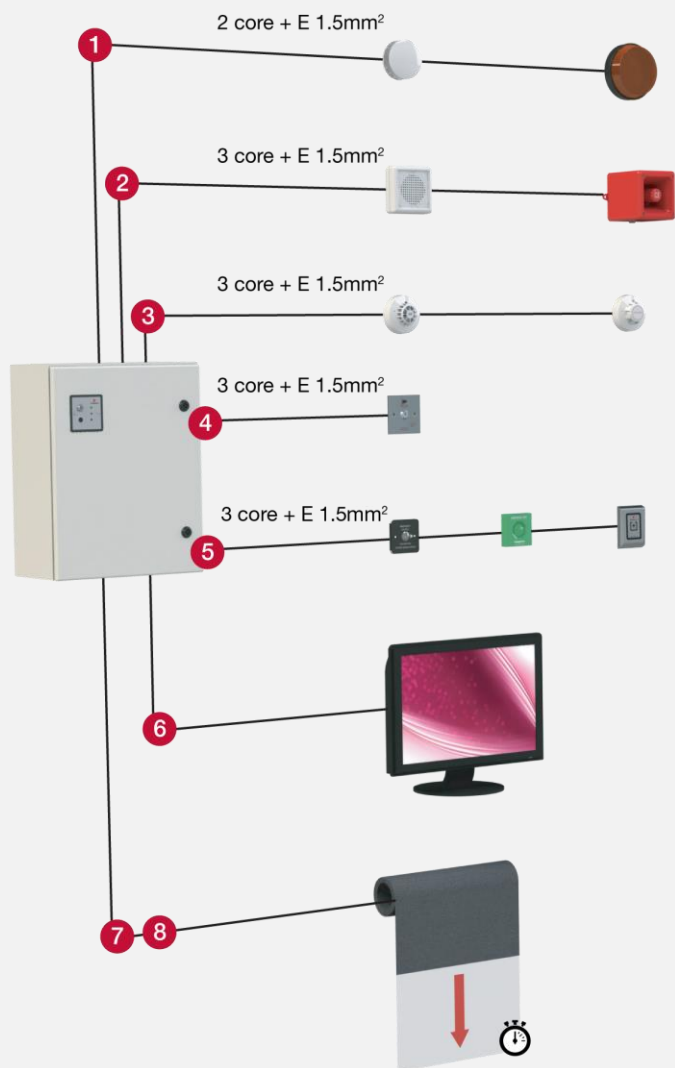
VARIOSPEED®6 CONTROLS GROUPED (CG) –
TYPICAL WIRING LAYOUT



VARIOSPEED®6 BATTERY BACKUP UNIT – CONTROLS GROUPED (VS6-BBU-CG)

CONTROLS – OPTIONAL EXTRAS MATRIX

See the table below for use of optional extras available.



Optional Extras		Control Panel Type	
		ERU / MONO	BBU
1	Light Warning Unit	✓	✓
2	Voice Warning Unit	✓	✓
3	Heat Detector Smoke Detector	✓	✗
4	Test / Reset Switch	✓	✓
5	Emergency Retract Push Buttons	✓	✗
6	Building Management System (BMS) Interface <i>(see next page for more information)</i>	✓	✓
7	Adjustable Split Drop and Half Drop Enabled	✓	✗
8	Safety Edge / Bump Stop	✓	✗

ERU - Emergency Retract Unit

MONO – Control Panel for single curtain i.e. one roller

BBU – Battery Backup Unit

Datasheet Optional Extras Reference

Visit Coopers Fire website at www.coopersfire.com

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BUILDING MANAGEMENT SYSTEM (BMS) OPTIONS

See the table below for guidance on the correct BMS components required for Coopers Fire Variospeed®6 controllers.

Control System Name	BMS Description	Component/ Stock Number	Note	BMS Outputs				
				Control Panel Fault (Mains power & alarm)	Curtain Up	Curtain Down	Curtain Fault	Battery low charge, battery fault, battery disconnected
Variospeed®6	Standard BMS	PZUE PCB 30074	1 x PZUE PCB per BBU/ERU	✓	✗	✗	✗	✗
	Curtain Status BMS	BMS03 Kit 30093	1 x BMS03 Kit per curtain	✗	✓	✓	✓	✗
	Battery Monitoring BMS	SLAM PCB 34105	1 x SLAM PCB per BBU/ERU	✗	✗	✗	✗	✓
	Full BMS	PZUE PCB 30074 BMS03 Kit 30093 SLAM PCB 34105	1 x PZUE PCB per BBU/ERU 1 x BMS03 Kit per curtain 1 x SLAM PCB per BBU/ERU	✓	✓	✓	✓	✓



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Coopers Fire Ltd has a policy of continuous product improvement.

As such we reserve the right to change design and specifications without prior notice.

Please check our website for the latest information