

Manor Farm Industrial Estate,
Flint, Flintshire CH6 5UY

**PLEASE COMPLETE AND RETURN AS SOON AS POSSIBLE
TO ALLOW DESIGN/MANUFACTURE TO PROGRESS**

Telephone +44 (0)1352793222
Email: orders@tvcl.co.uk

TVC Quote No.

Company Name

Company Contact

Address

Delivery Address
(if different from
above)

Customer Job No.

Site Reference

The above references will be added to
all documentation including drawings

Note: this document will be the official document used to configure your controller. Complete it carefully as any changes may result in additional cost and delayed delivery. Any features requested in this document that are not already included in the quotation may be subject to a price increase.

REQUIREMENTS

Please complete the attached questionnaire and supply all relevant information in order that the lift control panel(s) may be designed and manufactured. Inaccurate or incomplete information may delay delivery.

For Modernisation jobs, all application data on existing equipment and any requirements not covered on the quotation should be recorded and attached to this form.

Please contact TVC if any questions arise regarding the required data.

Authorised By: _____

Print Name: _____ Date: _____

TVC cannot accept this document unless signed and dated

Internal use only. TVC contract number: _____

MAINS SUPPLY		Volts	Is a Suitable Neutral Available?	Yes 4 Wire	No 3 Wire				

LIFT MACHINE PLEASE SUPPLY MOTOR MANUFACTURER DATA SHEET FOR APPLICATION OR COMPLETE DETAILS BELOW	
Data Sheet attached	No Yes
Motor data sheet ref number 	
Proceed to NEXT SHEET	

MOTOR		APPLICATION DETAILS			
Manufacturer			Car Speed	m/s	
	Type				
	V				
	Hz				
	RPM				
KW					
Full Load Current			Roping	1:1	
Flywheel/Heavy				2:1	
Brake Coupling	Yes	No	Sheave Diameter		
			mm		
			Gear Type		
			Geared	Gearless	
			Gear Ratio		
			/		
Motor RPM Required to Achieve Contract Speed					

BRAKE			
Lift Voltage	Vdc	Lift Current	A
Hold Voltage	Vdc	Hold Current	A
Method of Brake release during rescue operation		Mechanical	Electrical

PULSE ENCODER (Closed Loop Only)	
1024PPR 10-30Vdc Push/Pull Complimentary	
1024PPR 10-30Vdc Differential RS422 Line Driver	
4096PPR 5Vdc Differential RS422 Line Driver	
2048PPR 5Vdc EnDat Absolute Multi-Turn	
Other (Please provide details)	

MOTOR FAN	Voltage	<input type="text" value="V"/>	Phases	<input type="text"/>
Electrical Motor Fan	Yes	No	Current	<input type="text" value="A"/>
Note: All new Sassi motors require a 230V 0.14A 1Phase motor fan				

DOOR CONTROL

No of Car Entrances

1	2
---	---

If 2 entrances

Non-Selective
Door OpeningSelective
Door Opening

Fully Automatic Car & Landing

Select Type

Complete **SECTION A** below only

Manually Operated Car & Landing

Complete **SECTION B** below only

Fully Automatic Car & Manually Operated Landing

Complete **SECTIONS A & B** below**CAR DOOR OPERATOR****SECTION A****Select Type**

GAL VVVF

Is GAL HA (Fault Monitoring) Unit Fitted

Yes	No
-----	----

FERMATOR VVVF

Select Type

SDS	F28	F29
SUPRA	MIDI	ECO
AT18	AT25	AT40

SEAMATIC VVVF

Select Type

SELCOM VVVF

Select Type

SIEMENS

Select Type

OTHER

Provide Details

RETIRING RAMP**SECTION B**

Voltage

Vdc

Power Rating

W

SPECIAL DOOR CONTROL REQUIREMENTS

Please specify any special door control requirements

DIGITAL POSITION INDICATORS

24Vdc

Select Manufacturer

TVC

Dewhurst

Stentorgate

ILE 4 Wire Serial

Drucegrove

Digital Advance

Other

Displays fitted at:

Car

Main Floor

All Floors

Standard position indicator signals

Floor Position, Lift Direction,
Lift on Fire Control,
Lift Overloaded, Lift Out of Service

Please provide a list of any additional
indicator messages

(If free issue encoder, please ensure we receive
the unit at least two weeks before despatch date,
if not, we reserve the right to dispatch the
contract minus the free issue equipment fitted)

Battery Backed Up Indicator Supply
(Lift out of service message)

Y	N
---	---

If selected, TVC standard Back up duration is for 1 Hour

Discrete Hall Lantern Arrows
(Not driven by the Digital Display system)

Y	N
---	---

Please provide details

SPEECH UNIT

24Vdc

Select Manufacturer

TVC

Standard speech unit signals

Floor Position, Doors Opening, Doors Closing,
Lift Direction, Lift on Fire Control,
Lift Overloaded, Lift Out of Service

Please provide a list of any additional
speech messages

Dewhurst

Stentorgate

Drucegrove Digitalker

Digital Advance

Other

Specify Manufacturer & Type

SPECIAL REQUIREMENTS

Please specify any additional indicator/speech/gong requirements

LIFT POSITIONING SYSTEM

LIMAX3CP – Safe Magnetic Absolute Shaft Information System

- is an easy-to-install, high performance system suitable for all applications.
- requires **NO** door zone switches in the lift shaft.
- uses a shaft mounted tape system, please specify the Tape length required.

M

Can be used for lifts
requiring the these features

Lifts with relevelling	Absolute Position	Auto Shaft Learn	Firefighting Applications	Speeds up to:
✓	✓	X	✓	6.0 m/s

LIMAX3CP can be used for the following safety features, it will be **pre-configured** at TVC to suit the site requirements, therefore, please ensure all safety features required are selected from these forms.



Note: these forms will be the official document used to configure your Limax3CP.

Complete them carefully as any changes will require a replacement Limax3CP, as these features cannot be changed on site.

Safety Feature	Fulfilled by Limax3CP	Normative reference
Overspeed pre-tripping	Only when used with a Bi-directional Electromechanical Safety Gear.	EN81-20 § 5.6.2.2.1.6.a
Overspeed final tripping	Only when used with a Bi-directional Electromechanical Safety Gear.	EN81-20 § 5.6.2.2.1.1.a
Final Limit Switches	Yes	EN81-20 § 5.12.2.3.1.b
Inspection Limit Switches	Yes	EN81-21 § 5.5.3.4 / § 5.7.3.4
Door bridging (Monitoring the levelling and relevelling)	Yes	EN81-20 § 5.12.1.4
Unintended car movement protection	Only when used with either a Bi-directional Electromechanical Safety Gear, Dual Brake or a conventional safety gear triggered by a conventional speed governor, which in turn is triggered via a solenoid	EN81-20 § 5.6.7.7
Upper Pre-triggered Stopping System (Reduced clearances in the headroom)	Only when used with a Bi-directional Electromechanical Safety Gear or a conventional safety gear triggered by a conventional speed governor, which in turn is triggered via a solenoid	EN81-21 § 5.5.2.3
Lower Pre-triggered Stopping System (Reduced clearances in the pit)	Only when used with a Bi-directional Electromechanical Safety Gear or a conventional safety gear triggered by a conventional speed governor, which in turn is triggered via a solenoid	EN81-21 § 5.7.2.3
Deceleration control for Reduced stroke buffer	When specified/required	EN81-20 § 5.12.1.3

CONTROLLER OPTIONS

Please select all options required to be included within the TVC control system

Remote OSG Trip Solenoid interface	<input type="checkbox"/>	Voltage:	<input type="checkbox"/> V	
Remote OSG Reset Solenoid interface	<input type="checkbox"/>	Voltage:	<input type="checkbox"/> V	
Digital Handwind Unit (HW03)	<input type="checkbox"/>			
Eco-mode	<input type="checkbox"/>			
Panel mounted Emergency Stop switch	<input checked="" type="checkbox"/>	Fitted as standard		
Swipe Card interface	<input type="checkbox"/>	Supply full details.		
Automatic Rescue Device (UPS) (Requires a suitable Neutral connection)	<input type="checkbox"/>	Rescue lift at reduced speed to:	<input type="checkbox"/> Nearest Floor & shutdown	<input type="checkbox"/> Main Floor & shutdown
Regenerative Drive	<input type="checkbox"/>			
Engineer's Access Control	<input type="checkbox"/>	Allows safer access to the lift Cartop for maintenance personnel		
Advance Brake Lift	<input type="checkbox"/>	Allows Lift Brake to energise whilst lift doors are closing for faster take off		
Building Management interface	<input type="checkbox"/>	Supply full details.		
Emergency Generator Supply	<input type="checkbox"/>			
TVC Elevator Monitoring Unit (EMU)	<input type="checkbox"/>			
TVC EM181 Autodialler	<input type="checkbox"/>			
E-Director	<input type="checkbox"/>	E-Director offers a graphical representation of the Ethos control systems, from simplex to full group		
Hospital Priority control	<input type="checkbox"/>	Supply full details.		
EN81-20 Compliant Lift	<input type="checkbox"/>			
EN81-21 Compliant Lift	<input type="checkbox"/>	If selected, complete the details on attached "EN81-21" form.		
EN81-71 Vandal Resistant Lift	<input type="checkbox"/>	→	<input type="checkbox"/> Category 1 Lift	<input type="checkbox"/> Category 2 Lift
EN81-72 Fire fighting Lift	<input type="checkbox"/>	Note: TVC only offer a Robust enclosure, not Certified Vandal resistant		
EN81-73 Fire Alarm	<input type="checkbox"/>			
BS9999 Evacuation control	<input type="checkbox"/>			
Lift Consultants' Specification	<input type="checkbox"/>	→	Specification reference: <input type="text"/>	Applicable pages: <input type="text"/>

Select preferred Option

Cabinet Enclosure Details (See attached Mini/Midi/Maxi_Hybrid sheets for further details)

 Mini Midi Maxi Hybrid

TVC offer "Pre-wired" lift devices to enable faster site installation:e.g. Trailing Flexes, Cartop Control Unit, COP, LOP.

Select if Pre-wired devices are required

If selected, complete the details on attached "Pre-wired" forms.

EN81-21 Compliance

Yes No

If Yes, please select all options required to be included within the TVC control system design.

If No, proceed to next sheet.

EN81-21: Clause 5.5

Reduced clearances in headroom

If required, select method to be used:

Moveable stops

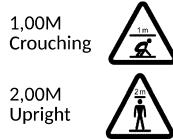
Yes No

If yes, provide details

Pre-triggered
stopping system

Yes No

If yes, select Height of refuge space as EN81-21 § 5.5.2.4



EN81-21: Clause 5.6

Extendable car roof balustrade

Please provide full details of system to be used

EN81-21: Clause 5.7

Reduced clearances in pit

If required, select method to be used:

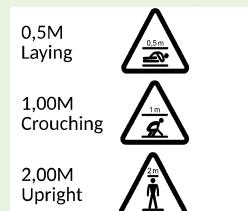
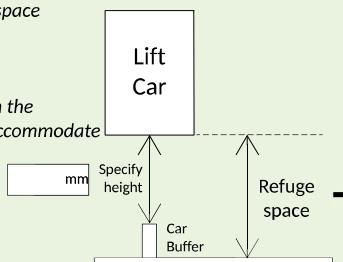
Moveable stops

Yes No

If yes, provide details

Pre-triggered
stopping system

Yes No

If yes, select Height of refuge space
As EN81-21 § 5.7.2.4And also the distance between the
Car buffer and the lift car to accommodate
The required refuge space

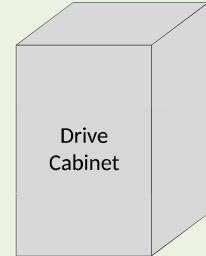
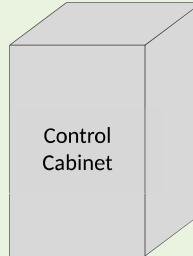
EN81-21: Clause 5.8

Extendable apron

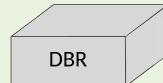
Please provide full details of system to be used

Cabinet Enclosure Details

Mini



Note: See details below for DBR resistor when Regenerative unit is used.



	Landing Cabinet	Control Cabinet	Drive Cabinet	DBR Resistors (Non-Regen)
Height	2200 mm	1364 mm	752 mm ***	150 mm
Width	160 mm	455 mm	455 mm ***	465 mm
Depth	100 mm	158 mm	315 mm ***	300 mm
Material	304 Brushed Stainless Steel 240 Grit	Galvanised Steel	Galvanised Steel	Galvanised Steel
Cable entry	Base/Bottom Rear	Base	Base	Base
Ventilated	Not required	On both sides & Front	On both sides & Front	All round
Hinged **	 (Note door space required)	Lift off Cover	Lift off Cover	Not Applicable
Mounting Site	Landing Architrave	Lift Shaft	Lift Shaft	Lift Shaft



** Please delete as applicable

*** Drive cabinet size for upto 30A FLC

Approximate Distance between cabinets

Control Panel Standard features

Consumer Unit	→ Consumer Unit Comprises -
Emergency Stop Switch	30mA RCD
3 Phase isolator	6A Carlight supply
3-Pin 13A Socket	6A Shaft Power supply
Cabinet Light	16A Cabinet power supply
Shaft Light Switch	6A Autodialler supply

The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

The following features (when requested) are required to be mounted remotely from the above cabinets.

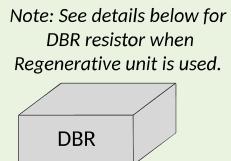
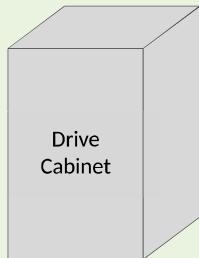
Refer to factory for dimensions.

Automatic Rescue Device (ARD)

Regenerative Unit (RGN)

Cabinet Enclosure Details

Midi

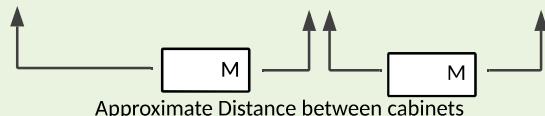


Note: See details below for DBR resistor when Regenerative unit is used.

	Control Cabinet	Drive Cabinet	DBR Resistors (Non-Regen)
Height	2200 mm	752 mm ***	150 mm
Width	500 mm	455 mm ***	465 mm
Depth	200 mm	315 mm ***	300 mm
Material	304 Brushed Stainless Steel 240 Grit	Galvanised Steel	Galvanised Steel
Cable entry	Base/Bottom Rear	Base	Base
Ventilated	Forced Ventilated out of Top rear	On both sides & Front	All round
Hinged **	LEFT	RIGHT	Lift off Cover
Mounting Site	Landing Architrave	Lift Shaft	Lift Shaft

** Please delete as applicable

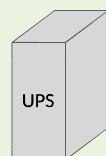
*** Drive cabinet size for upto 30A FLC



Control Panel Standard features

Consumer Unit	→	Consumer Unit Comprises - 30mA RCD
Emergency Stop Switch		6A Carlight supply
3 Phase isolator		6A Shaft Power supply
3-Pin 13A Socket		16A Cabinet power supply
Cabinet Light		6A Autodialler supply
Shaft Light Switch		

The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

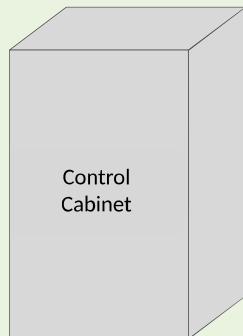
The following features (when requested) are required to be mounted remotely from the above cabinets.
Refer to factory for dimensions.

Automatic Rescue Device (ARD)

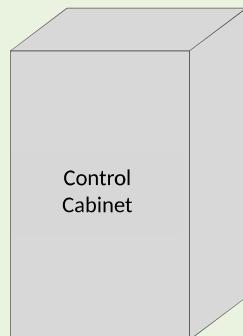
Regenerative Unit (RGN)

Cabinet Enclosure Details

Maxi



Hybrid



Note: See details below for DBR resistor when Regenerative unit is used.



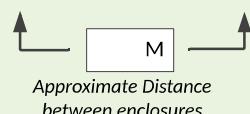
Note: See details below for DBR resistor when Regenerative unit is used.



	Control Cabinet	DBR Resistors (Non-Regen)
Height	2200 mm ***	150 mm
Width	500 mm ***	465 mm
Depth	300 mm ***	300 mm
Material	304 Brushed Stainless Steel 240 Grit	Galvanised Steel
Cable entry	Base/Bottom Rear	Base
Ventilated	Forced Ventilated out of Top rear	All round
Hinged **	LEFT RIGHT	Not Applicable
Mounting Site **	Landing Mounted	Lift Shaft

	Control Cabinet	DBR Resistors (Non-Regen)
Height	1200/1400/1600mm **	150 mm
Width	800 mm	465 mm
Depth	400 mm	300 mm
Material	Powder Coated Mild Steel	Galvanised Steel
Cable entry	Base	Base
Ventilated	On both sides & Front	All round
Hinged	Centre Opening	Not Applicable
Mounting Site	Dedicated room/cupboard	

** Please delete as applicable



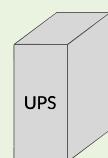
*** Control cabinet size for upto 30A FLC

** Please delete as applicable

Control Panel Standard features

Consumer Unit	→	Consumer Unit Comprises - 30mA RCD 6A Carlight supply 6A Shaft Power supply 16A Cabinet power supply 6A Autodialler supply
Emergency Stop Switch		
3 Phase isolator		
3-Pin 13A Socket		
Cabinet Light		
Shaft Light Switch		

The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

The following features (when requested) are required to be mounted remotely from the above cabinets.
Refer to factory for dimensions.

Automatic Rescue Device (ARD)

Regenerative Unit (RGN)



STANDARD FEATURES INCLUDED IN THE CONTROL PANEL

Control Features

- 110V/230VAC Door detector supply
- Alarm supply 12Vdc
- Standard adhesive component labels
- Dewhurst EnBuzz interface
- Dual illumination
- Non-adjustable Thermostat
- Phase failure / phase reversal protection
- Motor thermistor protection
- Door open & door close push indicator outputs
- Alarm Filtering in compliance with EN81-28:2018
- Emergency electrical operation
- ECO mode car light & fan turn off
- Door Nudging
- Advance door opening
- Relevelling
- Volt-free Lift in/out of service & Lift alarm contacts
- Top of Car Termination Box (Including serial Car Module)
- Low Smoke Zero Halogen cable
- Miniature Circuit Breaker protection

The following assumptions will be made unless specifically stated otherwise.

Lift counterweighted at 50%.
Gear efficiency approximately 70%.
Well efficiency approximately 80%.
No compensation ropes fitted.

Maximum acceleration & jerk rates
Please specify if alternate values are required

Lift speed (m/s)	Accel rate (m/s ²)	Jerk rate (m/s ³)
< 1.0	0.4	0.6
1.0 - 1.5	0.7	0.75
1.6 - 2.4	0.8	0.9
2.5 - 2.9	0.9	1.0
3.0 - 4.9	1.0	1.25
5.0 - 5.9	1.2	1.5
> 5.9	1.2	1.8

Standard Ethos Microprocessor features

- Service control / Car preference
- 90% load weighing
- 110% load weighing
- Emergency recall to fire floor (selected via Ethos MMI), doors dwell closed
- Fire alarm recall to fire floor (selected via Ethos MMI), doors park open (default)
- Homing (floor selected via Ethos MMI)
- Anti nuisance
- Door disable switch
- Prepare to test switch
- Double journey timer
- English language Colour touch screen MMI
- Facility for inserting car & landing calls via Ethos MMI
- Floor position, car direction, doors status & lift status graphical display
- Digital trip counter
- Door nudging buzzer output

Call pushes

- 24Vdc 3 wire Car & Landing call pushes.
- Maximum power rating for each call push 1W

Controller Mechanics - Non MRL

- Wall/floor mounted cabinet, powder coated mild steel
- Dimensions: Height 1200 - 1800mm, Width 800mm, Depth 400mm
- DBR resistors (where required) mounted on the top of the cabinet
- Centre opening doors.
- IP22 rating

Controller Mechanics - MRL

- Refer to MRL ED5 forms for available controller mechanical options.

Compliance details

- Products are manufactured within a system certified to BS EN ISO9001:2000