

Car controller specification

Foreword

Document revision date: 02/03/09

Please fill all ten pages completely. *It is very important to include ALL information to assure an accurate price quote and controller configuration.* The standard indicator voltages are 24VDC or 110VDC, high side outputs.

Note: Cars having different speed, capacity, motor data or openings require separate data sheets.

Note: CE Micro Com driver supplied by MCE for Tricon will operate a maximum of four displays. If five or more displays are used, Heavy Duty CE provisions are required at additional charge. If you are providing a digital display driver, the inputs will be +24VDC, binary starting with one at the bottom floor.

General data

Date: _____

Customer

Company Name:	
Contact / Survey by:	
Phone:	Fax:
Approval Signature:	Date:

Job

Job name	
Job address	
Car name	
Delivery date	

Shipping Address

Controller to be picked up at MCE Yes No
 Shipping address same as your office Yes No

Company Name:	
Ship Address:	
Phone / Contact:	
Lift Gate Required	<input type="checkbox"/> Yes <input type="checkbox"/> No
Flat bed Truck Required	<input type="checkbox"/> Yes <input type="checkbox"/> No
Notice Required	<input type="checkbox"/> 24-Hr <input type="checkbox"/> 48-Hr <input type="checkbox"/> Other

Specification

<input type="checkbox"/> Not provided	<input type="checkbox"/> Yes, Number of pages: _____
Consultant Company:	
Name:	
Phone:	Fax:

Elevator type

Passenger Simplex Simplex W/ Emg Power
 Service Freight Car Switch
 Group car w/Sep dispatcher box

Car speed: _____ Fpm Load Capacity: _____ Lbs

Note: All multi car groups and simplex cars with emergency power or Hospital Code Blue require a separate dispatcher box.

Elevator Safety Code Compliance

Project Type:	<input type="checkbox"/> New construction	<input type="checkbox"/> Modernization
Measurements:	<input type="checkbox"/> U.S./English	<input type="checkbox"/> S.I./Metric
Compliance		
<input type="checkbox"/> ASME A17.1-2007 <input type="checkbox"/> A17.1-2004 <input type="checkbox"/> A17.1-2000		
<input type="checkbox"/> ASME A17.1-1996/98 (If 98 addendum on multi-car installation, provide details on machine room/hoistway configuration page 6 or on a separate sheet of paper.)		
<input type="checkbox"/> ASME A17.1- _____ Specify code and addenda.		
International compliance		
<input type="checkbox"/> Canada <input type="checkbox"/> B44-07 <input type="checkbox"/> B44-04 <input type="checkbox"/> B44-00		
<input type="checkbox"/> Other: _____		

Power line

- Note: The following voltages are 60 HZ 3 phase
- | | | |
|---|----------------------------------|----------------------------------|
| <input type="checkbox"/> 208 VAC | <input type="checkbox"/> 220 VAC | <input type="checkbox"/> 440 VAC |
| <input type="checkbox"/> 460 VAC | <input type="checkbox"/> 480 VAC | <input type="checkbox"/> 575 VAC |
| <input type="checkbox"/> 220 VAC 60 Hz single phase | <input type="checkbox"/> 600 VAC | |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> 240 VAC | |

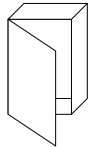
Control type

- | | |
|---|----------------|
| <input type="checkbox"/> VV-MG | (Fill page 7) |
| <input type="checkbox"/> VVVF open loop | (Fill page 10) |
| <input type="checkbox"/> VVVF/VFD closed loop | (Fill page 10) |
| <input type="checkbox"/> VV-SCR control | (Fill page 9) |
| <input type="checkbox"/> Hydraulic | (Fill page 11) |

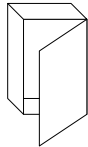
Control options

Cabinet door hinge mounting (circle one):

Car #: _____ Car #: _____



LEFT SIDE



RIGHT SIDE

- | | | |
|---|------------------------------------|--|
| Pre-wired car station (serial link) | <input type="checkbox"/> No | <input type="checkbox"/> Yes |
| Remote car top box (serial link) | <input type="checkbox"/> No | <input type="checkbox"/> Yes |
| Cabinet legs 18" (HPV600, Hydro only) | <input type="checkbox"/> No | <input type="checkbox"/> Yes |
| Cabinet Stands 4"(HPV900,SCR,MG) | <input type="checkbox"/> No | <input type="checkbox"/> Yes |
| Air Conditioning | <input type="checkbox"/> No | <input type="checkbox"/> Yes |
| Hand held units | <input type="checkbox"/> No | <input type="checkbox"/> Yes, quantity _____ |

Note: A Tricon pre wired car station w/ I/O boards installed requires the remote car top box option. The car station must be shipped to MCE for wiring. Remote car top box only is acceptable.

Riser description (NO SHORT FLOORS ALLOWED)

Floor	Floor height	Floor marking	OPENINGS		SIMPLEX HALL CALLS / IR				GROUP HALL CALLS				LOCKOUTS	
			Front	Rear	Up	Down	Rear Up	Rear down	Up	Down	Rear up	Rear down	Front	Rear
OVERH														
32			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PIT														

- Floor marking:** The floor identification in the building
- Front opening:** The car has a front door at the floor.
- Local hall up:** The car is simplex and has a hall up call or has a hall independent riser up call at the floor.
- Local hall down:** The car is simplex and has a hall down call or has a hall independent riser down call at the floor.
- Rear opening:** The car has a rear door at the floor.
- Local rear hall up:** The car is simplex and has a rear door hall up call or has a hall independent riser rear up call at the floor.
- Local rear hall down:** The car is simplex and has a rear door hall down call or has a hall independent riser rear down call at the floor.

Shaft data

Total shaft height Car #1 _____ feet Car #2 _____ feet
 Selector tape length Car #1 _____ feet Car #2 _____ feet
 Selector tape length should be the total shaft height, from the pit floor to the motor room floor.

Lobby signals and devices

Lobby Position Indicator

- None
- Lamps
 - 110 VDC 24 VDC
 - Dir. Arrows Yes No
- CE MicroCom® driver (provided by MCE)
- CE MicroCom® driver (provided by customer)
- E-Motive driver (provided by MCE)

Hall signals and devices

Hall Indicators

Position Indicators, (Other than lobby)

- None
- CE Display (Max. 4 displays)
- CE Display **Heavy Duty** (5 or more displays) Add.chg.
- Analog lamps (Max. 3 lamps)
- Analog lamps **Heavy Duty** (4 or more lamps) Add.chg.
 - 110 VDC 24 VDC
 - Dir. Arrows: Yes No
- CE MicroCom driver (provided by MCE)
- CE MicroCom driver (provided by customer)
- E-Motive driver (provided by MCE)
- Other, specify: _____

In-use light

- No Yes
- If Yes, voltage 110 VDC 24 VDC

Hall Direction Arrows (Other than Pos. Ind.)

- No Yes
- If Yes, voltage 110 VDC 24 VDC

Hall Lanterns

- None Yes
- If Yes, voltage 110 VDC **24 VDC**

Hall Call Pushbuttons

- Car switch operation with hall calls and in car annunciation
- Switch type, no Ack. light
- Switch type, Ack. Lights
 - 110 VDC 24 VDC

Car station signals and devices

Car call pushbuttons

- Switch type, no Ack. lights
- Switch type, Ack. Lights
- 110 VDC 24 VDC

Car station position indicator

- None
- Lamps
 - 110 VDC 24 VDC
 - Dir. Arrows: Yes No
- CE MicroCom driver (provided by MCE)
- CE MicroCom driver (provided by customer)
- E-Motive driver (provided by MCE)
- Other, specify _____

Attendant in Car Annunciators

- No Yes
- Audible signal (Buzzer only) 110 VDC 24 VDC
- Visual signal (Panel in car or hall to indicate hall calls)
NOTE: Provided only with car switch operation.
- If Yes, voltage 110 VDC 24 VDC

Auxiliary Car Station

- No Yes

Buzzers

Fire buzzer

- None
- 110 VDC 24 VDC

Nudging buzzer

- None Use fire buzzer
- 110 VDC 24 VDC

Passing chime

- None Use fire buzzer
- 110 VDC 24 VDC

Other switches

- Car insp. sw. (required for access) Yes No
- Attendant up-down buttons Yes No
- Attendant direction arrows Yes No
- Attendant bypass button Yes No
- "S" Handicap Chime Enable Button Yes No
- Car Call Lockouts Yes No
 - Which Floors _____
- Car Call Lockout Type
 - Key switch Cardreader
- Car Call Lockout Location
 - Car Station Remote _____

NOTE: All lockout key switches located in car station sent to MCE for pre-wiring will be wired in car station to car buttons unless otherwise stated. Remote locks will be wired to input card on controller.

Car signals and devices, other than car station

Car position indicator (In transom)

- None
- Lamps
 - 110 VDC 24 VDC
 - Dir. Arrows: Yes No
- CE MicroCom® driver (provided by MCE)
- CE MicroCom® driver (provided by customer)
- E-Motive driver (provided by MCE)
- Other, specify _____

Car arrival lanterns and gong

- None
- Lamps
- 110 VDC 24 VDC

Front Door

Car door type

- Manual door Master door Freight
 Manufacturer _____
 Model _____

Door operator

- | | | |
|---|--|-----------------------------------|
| <input type="checkbox"/> None | <input type="checkbox"/> New | <input type="checkbox"/> Existing |
| <input type="checkbox"/> SmarTraq Complete DO | <input type="checkbox"/> SmarTraq Upgrade Kit | |
| <input type="checkbox"/> GAL MODCT | <input type="checkbox"/> GAL MOMCT | |
| <input type="checkbox"/> GAL MOD (230V shunt) | <input type="checkbox"/> GAL MODP(swing) | |
| <input type="checkbox"/> GAL MODPM | <input type="checkbox"/> GAL MOMSVL | |
| <input type="checkbox"/> GAL MOVFR | <input type="checkbox"/> GAL MOM / MOH | |
| <input type="checkbox"/> MAC / ECI (Electronic) | <input type="checkbox"/> Moline (Resistor) | |
| <input type="checkbox"/> Schindler QKS-14or15 | <input type="checkbox"/> Courion | |
| <input type="checkbox"/> Peelle (Auto open) | <input type="checkbox"/> Peelle (Auto O and C) | |
| <input type="checkbox"/> Other | <input type="checkbox"/> EMS | |

Manufacturer _____
Model _____

Include door operator prints

Note: Supply prints for all freight operators.
Note: Tricon standard for GAL MOCT type operators is 208VAC supply and 110 VDC relays

Door Detector interface

- Standard (detectors which close dry contact)
 Other, describe _____

Hall doors type

- Manual
 Driven by car door (automatic)
 Swing door with 2 circuit locks
 Freight door
 Manufacturer _____
 Model _____

Door retiring cam

- None New Existing
 Mechanical
 Electrical
 Two circuit door locks No Yes
 GAL 220 VAC
 Other, _____ volts
 Motor Coil
 Pick volts _____ Resistance _____ ohms

Rear Door

Car door type

- Manual door Master door Freight
 Manufacturer _____
 Model _____

Door operator

- | | | |
|---|--|-----------------------------------|
| <input type="checkbox"/> None | <input type="checkbox"/> New | <input type="checkbox"/> Existing |
| <input type="checkbox"/> SmarTraq Complete DO | <input type="checkbox"/> SmarTraq Upgrade Kit | |
| <input type="checkbox"/> GAL MODCT | <input type="checkbox"/> GAL MOMCT | |
| <input type="checkbox"/> GAL MOD (230V shunt) | <input type="checkbox"/> GAL MODP(swing) | |
| <input type="checkbox"/> GAL MODPM | <input type="checkbox"/> GAL MOMSVL | |
| <input type="checkbox"/> GAL MOVFR | <input type="checkbox"/> GAL MOM / MOH | |
| <input type="checkbox"/> MAC / ECI (Electronic) | <input type="checkbox"/> Moline (Resistor) | |
| <input type="checkbox"/> Schindler QKS-14or15 | <input type="checkbox"/> Courion | |
| <input type="checkbox"/> Peelle (Auto open) | <input type="checkbox"/> Peelle (Auto O and C) | |
| <input type="checkbox"/> Other | <input type="checkbox"/> EMS | |

Manufacturer _____
Model _____

Include door operator prints

Note: Supply prints for all freight operators.
Note: Tricon standard for GAL MOCT type operators is 208VAC supply and 110 VDC relays

Door Detector interface

- Standard (detectors which close dry contact)
 Other, describe _____

Hall doors type

- Manual
 Driven by car door (automatic)
 Swing door with 2 circuit locks
 Freight door
 Manufacturer _____
 Model _____

Door retiring cam

- None New Existing
 Mechanical
 Electrical
 Two circuit door locks No Yes
 GAL 220 VAC
 Other, _____ volts
 Motor Coil
 Pick volts _____ Resistance _____ ohms

Car special operations

Fireman's operation

- No Yes
- ANSI 17.1 Version - _____
- NYC operation
- "Master Fire Service" switch (Chicago only)
- Other (Please describe)

Fire recall floor _____ Rear door

Smoke detectors

- No Yes
- Alternate recall floor _____ Rear door
- Smoke bypass switch Yes No

Hoistway Access switch

- Top floor**
- Yes None
- Bottom floor**
- Yes None
- Other floor**
- _____ None

Note: An inspection switch in the car is required, as well as hoistway limit switches

Special services

- Attendant No Yes
- Independent service No Yes
- Inconspicuous Riser(IR) Car# _____ No Yes
- Earthquake No Yes
- Cross Cancel No Yes
- Lobby recall No Yes
- Floor _____ Rear door
- Load Weigh unit (K- Tech) No Yes
- Emg Power (Disp required) No Yes
- Color Lobby Display No Yes
- Master Control Key Sw. for schools No Yes
- Sabbath Feature No Yes
- Hosp. Code Blue (Disp. required) No Yes
- Rope Gripper (GAL) No Yes

Monitoring Systems

- Monitoring System in Motor Room No Yes
- Monitoring w/local short distance modem No Yes
- Remote Monitoring w/ phone line modem No Yes

VV-MG control

Machine

New Re-use existing **Location**
 Geared Overhead
 Gearless Basement
 Drum
 Other
 Manufacturer _____
 Model _____

Brake

New Re-use existing
 Manufacturer _____
 Model _____
 AC DC
 Specify either voltage or current; no need to specify both.
 Lift _____ volts _____ amps
 Hold _____ volts _____ amps
 Relevel _____ volts _____ amps
 Resistance _____ ohms

DC Hoist Motor

New Re-use existing
 Manufacturer _____
 Model _____
 Frame _____
 Type _____
 Amps: _____
 Nom. Volts _____
 H.P. _____
 RPM _____

Hoist motor shunt field

Specify either voltage or current; no need to specify both.
 Standing _____ volts _____ amps
 Full field _____ volts _____ amps
 Running _____ volts _____ amps
 Resistance _____ ohms

Note: All complete motor & brake info must be provided to avoid delays in processing.

DC Motor Generator

New Re-use existing
 Manufacturer _____

Generator Driving Motor

Manufacturer _____
 Model _____
 Frame _____
 Type _____
 Amps: _____
 Nom. Volts _____ AC DC
 H.P. _____
 RPM _____

Starter

Across the line Wye-delta
 Other, describe _____

Generator Data

Manufacturer _____
 Model _____
 Frame _____
 Type _____
 K.W. _____
 Voltage _____ volts
 Current _____ amps

Generator Shunt Field

Running data _____ volts _____ amps
 Resistance _____ ohms

DC Tachometer

Provided by MCE, DC Tachometer, and coupling
 Base mount Flange mount
 Select a coupling below if MCE is providing the tach
 5/16 X 1/4 5/16 X 5/16 5/16 X 3/8
 5/16 X 7/16 5/16 X 1/2
 (Default diameter = 1/4")
 Provided by motor manuf. when installing a new motor

Note: The tach provided by the motor manufacturer should be 100VDC per 1000RPM. The motor manufacturer should provide the mounting and couplings. The tach provided by MCE includes tach, coupling.

Note: All complete motor & brake info must be provided to avoid delays in processing.

SCR control

Machine

<input type="checkbox"/> New	<input type="checkbox"/> Re-use existing	Location
<input type="checkbox"/> Geared		<input type="checkbox"/> Overhead
<input type="checkbox"/> Gear-less		<input type="checkbox"/> Basement
<input type="checkbox"/> Drum		
<input type="checkbox"/> Other		
Manufacturer	_____	
Model	_____	

Brake

<input type="checkbox"/> New	<input type="checkbox"/> Re-use existing
Manufacturer	_____
Model	_____
<input type="checkbox"/> AC	<input type="checkbox"/> DC

Specify either voltage or current; no need to specify both.

Lift	_____ volts	_____ amps
Hold	_____ volts	_____ amps
Relevel	_____ volts	_____ amps
Resistance	_____ ohms	
Model	_____	

DC Hoist Motor

<input type="checkbox"/> New	<input type="checkbox"/> Re-use existing
Manufacturer	_____
Model	_____
Frame	_____
Type	_____
Amps:	_____
Nom. Volts	_____
H.P.	_____
RPM	_____

Hoist motor shunt field

Specify either voltage or current, no need to specify both.

Standing	_____ volts	_____ amps
Full field	_____ volts	_____ amps
Running	_____ volts	_____ amps
Resistance	_____ ohms	

Drive

Provide choke Yes No

Encoder Tachometer

Provided by MCE, encoder, coupling and cable
 Select a coupling below if MCE is providing the encoder

<input type="checkbox"/> 3/8 X 1/4	<input type="checkbox"/> 3/8 X 3/8	<input type="checkbox"/> 3/8 X 7/16
<input type="checkbox"/> 3/8 X 1/2		

(Default diameter = 1/4")

Provided by motor manuf. when installing a new motor
 Note: The encoder provided by the motor manufacturer should be 5VDC differential 150MA, 2 channel quadrature, (A, A not, B, B not). The motor manufacturer should provide the mounting, couplings, and cable. The encoder provided by MCE includes encoder, coupling and cable.

Note: All complete motor & brake info must be provided to avoid delays in processing.

Isolation Transformers & Chokes shipped to customer directly from manufacturer:

Yes No

Isolation Transformers & Chokes:

Stackable Non-Stackable

VVVF / VFD Control

Machine

- | | | |
|------------------------------------|--|-----------------------------------|
| <input type="checkbox"/> New | <input type="checkbox"/> Re-use existing | Location |
| <input type="checkbox"/> Geared | | <input type="checkbox"/> Overhead |
| <input type="checkbox"/> Gear-less | | <input type="checkbox"/> Basement |
| <input type="checkbox"/> Drum | | |
| <input type="checkbox"/> Other | | |
| Manufacturer _____ | | |
| Model _____ | | |

Brake

- New Re-use existing
- Manufacturer _____
- Model _____
- AC DC
- Specify either voltage or current; no need to specify both.
- Lift _____ volts _____ amps
- Hold _____ volts _____ amps
- Resistance _____ ohms

Hoist motor

- New Re-use existing
- Manufacturer _____
- Model _____
- Amps: _____
- Nom. Volts _____
- H.P. _____
- RPM _____

NOTE:

Only when using HPV600 drive at 100FPM with remote car top box and floors in line Tricon can provide slowdown magnets on the leveling unit (IP9600) to eliminate the need to mount mechanical switches in the hatch.

- IP9600 w/slowdowns SET9000

Drive

- Open loop configuration (no encoder)
- Closed loop configuration
(cable, encoder and coupling may be provided, see the encoder selection box below)

Encoder Tachometer

- Provided by MCE, encoder, coupling and cable
- Select a coupling below if MCE is providing the encoder
- 3/8 X 5/16 3/8 X 3/8 3/8 X 7/16
- 3/8 X 1/2 3/8 X 1/4
- (Default diameter = 1/4")
- Provided by motor manuf. when installing a new motor
- Note: The encoder provided by the motor manufacturer should be 5VDC differential 150MA, 2 channel quadrature, (A, A not, B, B not). The motor manufacturer should provide the mounting, couplings, and cable. The encoder provided by MCE includes encoder, coupling and cable.

Note: All complete motor & brake info must be provided to avoid delays in processing.

Hydraulic control

Pump Motor

- New Re-use existing
 Manufacturer _____
 Model _____
 Frame _____
 Type _____
 Amps: _____
 Nom. Volts _____
 H.P. _____
 RPM _____

Tandem pumps

- No Yes
 If Yes, how many _____

Tandem Valves

- No Yes
 If yes, provide a description of the desired pump starting and valve sequence.

Valve

- New Re-use existing
 Manufacturer _____
 Model _____
 Coils voltage _____volts AC DC
 Number of coils _____
 Sequence:
 Up fast _____
 Up slow _____
 Down fast _____
 Down slow _____

Note: Tricon provides a standard valve sequence. Both valves, fast and slow are energized in high speed. When the car slows down, high speed is dropped, and the slow speed valve remains energized, until the car levels to the floor.

Starter

- Starters provided by Tricon (select one below)
 ATL Wye-Delta (see Note 2 below)

 Soft Starter (see **Note 1** below)
 3 Wire Motor 6 Wire Motor

Note 1: *Separate Enclosure provided for all Soft Starters. Contact MCE Engineering for details.*

Note 2: *Separate starter enclosures are required for larger starter sizes. Contact MCE Engineering for details.*

If re-using existing indicate which:

- ATL Wye-delta
 Soft-starter Manufacturer _____

Note: If re-using existing, may require rewiring to Tricon standard interface.

(Provide prints for existing starter or Softstarter)

Other

- Rescuvator interface type:
 GAL Reynolds & Reynolds

 Low pressure switch
 High temperature switch