

# **C4 TRACTION AC**

\* EECO \* EV Elevator International (EEVI) \* Hidral \*

\* SEES - Southern Elevator & Electrial Supply \* Triumph Electric\*

\* Lift Solutions \* MEI \* Phoenix Modular \*

Engineering Data Form - Page 1

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### Warning: Review Before Submittal

- Failure to provide accurate and complete Information could result in the following: delayed controller shipment, price change, and incurred engineering charges.
- If a job specification is included, you must complete the 'Build to Job Specifications' section on page 3.
- All fixtures must be 24 VDC / 6 Watts Max.

State:

Zip Code:

• If a category is not completed, the default option will be assumed.

	TRACTION	AC - Table of Contents
	1. Job Information	7. Car Door Data
	2. Shipping & Pre-Wire	8. Landings and Openings (1-24)
	3. General Controller Information	9. Landings and Openings (25-64)
	4. Motor/Encoder, and Brake Data	10. Landings and Openings (65-96)
	5. Features & Functions	11. Elevator(s) Physical Layout
	6. Cables and Fixtures	12. Motor Purchase from Smartrise
		and submitted electronically using Adobe Reader.
	This document can be edited, saved, a	and submitted electronically using Adobe Reader.
Job Details		
Job Name:		Market Segment: Financial
PO#:		Federal Health Care Residential
Job Location (	City & State):	Education Hospitality Other
Purchasers In	formation: (If Packager, Fill in End User Info on Right)	End User Information: (For Packager Use Only)
Name:		Name:
Title:		Title:
Company:		Company:
Phone:	Fax:	Phone: Fax:
Cell:		Cell:
Email:		Email:
Engineering Name:	g Contact Information: (If different than above)	Job Site Address: (Address Where Controller(s) Will Be Installed)
Phone:	Fax:	Street:
Cell:	I ax.	
Email:		City:
Lillali.		State:
	Date Filled Out	Zip Code:
Building Own	er/Manager Information	FULL ELEVATOR SYSTEMS
Name:		Should you have a need for complete or partial elevator systems,
Phone:		contact Smartrise Sales for more information.
Email:		
Street:		Smartrise Packager Partners
City:		* Alliance * AVT Beckett * BTS * Canton * CED * * Delaware Elevator Manufacturng * Dura-Vator *

# **Shipping and Pre-Wire**

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Contact Name:
Phone:
Contact Fax/Email:
Smartrise Call Prior to Shipping: Yes No
Carrier Call for Delivery Appointment: Yes No
Lift Gate Required: Yes No
Freight Terms  Customer's Carrier Name:
Lise Smartrise Carrier Ves No Carrier's Account Number:
Collect I Third-Party
Pre-paid
Ship to Name/Company:  Shipping Address:  Bill To Address:
Shipping Address:
Shipping Schedule  Outstall (1) Paris de Ship Patr from Constribution  Outstall (1) Patr from Constribution
Controller(s) Desired Ship Date from Smartrise Controller(s) Desired Ship Date from Smartrise
Note: Desired ship date from Smartrise is not an arrival date.
Additional Shipping Instructions
Additional Shipping Instructions
Additional Shipping Instructions
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default)  Pre-wire Hall Boards: Yes No (Default)
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default)
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default)  Pre-wire Hall Boards: Yes No (Default)
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default)  Pre-wire Hall Boards: Yes No (Default)  Fixture Manufacturer  Dupar ERM Monitor Other Ship to Address:
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default) Pre-wire Hall Boards: Yes No (Default) Fixture Manufacturer  Dupar ERM Monitor Other Ship to Address:  ECC Innovation PTL
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default) Pre-wire Hall Boards: Yes No (Default)  Fixture Manufacturer  Dupar ERM Monitor Other Ship to Address:  ECC Innovation PTL  EPCO MAD SEES
Additional Shipping Instructions  Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max)  Pre-wire COP Boards: Yes No (Default) Pre-wire Hall Boards: Yes No (Default) Fixture Manufacturer  Dupar ERM Monitor Other Ship to Address:  ECC Innovation PTL

# **General Controller Information**

Electrical Main Line and Transformer Specification	Configuration
Main Line Specification:  Main Line Volts (Transformer required if there is more than a 10% difference between the main line and motor volts)	Simplex # Cars
Three Phase (Default)	Group # Cars in Group # of Hall Risers/Group
vac L1 to GND vac L2 to GND vac L3 to GND	Swing Riser, Car #
Single Phase	Selective Collective (2 buttons/floor, multiple calls) (Default)
Hz (Main Line is 60Hz unless otherwise stated)	Other:
Main Line Transformer (If Customer Requires)  Provided by Smartrise	Smart Dispatching
Provided By Customer (Customer to provide drawing)	Citate Disputching
Secondary Voltage	Lobby Boost (Lobby Only) Full (All Floors)
kVA	Total # of Screens
Data Plate Copy Included	
Environmental Considerations Not Required	Build to Job Specifications Not Required
Controller Cabinet Air-pressure cooled (Add Vortex) (Customer to provide Air Compressor)  Controller Cabinet Air conditioned cooled (Add A/C Unit) Controller  Cabinet Forced Air cooled (Add fan and filter)  Arc Flash Protection  Special attention to hoistway shaft (Provide details in notes below)  Outdoor or Hostile (Industrial Environment)	We will review the spec and provide a list of exceptions, when necessary  Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide page/section and description of exceptions)
NEMA Rating for Machine Room Controller Cabinet (If required, Default NEMA 1)  NEMA Rating for Top of Car Enclosure (If required, Default NEMA 1)  NEMA For Landing System (If required, Default NEMA 1)  *NEMA 4/4x requires ELGO landing system	
	ASME 17.1 Elevator Safety Code Compliance
Car Operating Panel	2019 Additional Local Code
Single Panel (Default)  Remote COP (Discrete in M/R)  Notes and Special Instructions	2016 2013 2010 2007 NYC (Appendix K) No Fire Service MASSACHUSETTS 2000
	Connection Package (Run Box)
	SmartConnect Package – Recommended (Pre-Wired Car Top Inspection Box included)

Trac	ction Features ( F	eatures for all c	ars is the	same as	s car 1) F	ailure t	to provid	e data	will result in	delay o	f controller	shipment	t		
Car	Contract Speed	Capacity		Motor rovided B		coder P	rovided l	Зу	Customer Supplied	Regen Kit	Batte	ry Rescue	)		set Coil Is
				Smartrise	`	Smartrise* None			Encoder Info Make	<del>  </del>	Auto Ros	scue Operatio	on	Is 24 VDC	Is 120 VAC
1				Customer	1=	Customer (Include info in no			I I I		Auto Rescue Operation Manual Brake Release Not Required				
2				Smartrise Customer	1=	artrise* tomer (Ind	No				Auto Rescue Operati Manual Brake Releas Not Required				
3				Smartrise Customer	1=	artrise* tomer (Ind	rtrise* None omer (Include info in notes)		Model		Manual E	scue Operatio Brake Releas			
4				Smartrise Customer		artrise* tomer (Ind	None nclude info in notes)				Auto Res	Not Required  Auto Rescue Operation  Manual Brake Release			
					*Excep	t encoder	s and cable	s for PM			Not Requ	uirea			
Mot	or/Encoder Data (	Data for all car	s are the	same as	car 1) F	ailure t	o provide	e data	will result in	delay o	f controller	shipment			
Car	Machine Brar	nd/Model	Motor Volts	FLA	HP	RPM	Motor Freq.	# of Poles	PM Accel Volts	* Rope Ratio		* Gear Ratio	Enco PPF		
1															
2															
3															
4															
Mot	Motor Data for IM & PM Motors ( Data for all cars are the same as car 1) Failure to provide data will result in delay of controller shipment														
Car		Motor Ty					Machine T			ation	Mount	Peak Ar		<u> </u>	
1	Induction Motor Permanent Magnet Motor	Single Speed	-	efault) 🔲 🖸	oual Speed	Motor [	Geared Gearles	3		verhead sement	Foot Flange				
2	Induction Motor Permanent Magnet Motor	Single Speed	d Motor (De	efault) 🔲 🗆	ual Speed	Motor [	Geared Gearles	3		verhead isement	Foot Flange				
3	Induction Motor Permanent Magnet Motor	Single Speed	d Motor (De	efault) 🔲 🗆	ual Speed	Motor [	Geared Gearles	s		verhead sement	Foot Flange				
4	Induction Motor Permanent Magnet Motor	Single Speed	d Motor (De	efault) 🔲 D	ual Speed	Motor [	Geared Gearles	s		verhead isement	Foot Flange				
Brak	e Data ( Data for	all cars are the	same as	car 1) Fa	ailure to	provide	data wil	result	in delay of c	ontrolle	er shipment				
Car	DC	Pick Volts (DC or AC)	Hold Volts	Coil Resistance	Coil Amperage			En	nergency (2 <sup>r</sup>	<sup>nd</sup> ) Brak	е		Indepe		Brake Data
1	DC (Default)		, , ,		1 3	120	0 VAC Holli aka Rope B		ney Rope Grippe	er 🗌	Independent DC Brake on	I	1100 750		John Convent
2	DC (Default)						0 VAC Holli: aka Rope B		ney Rope Grippe	er 🗌	Independent DC Brake on	I			
3	DC (Default)					=	0 VAC Holli aka Rope B		ney Rope Grippe	er 🗌	Independent DC Brake on	I			
4	DC (Default)						0 <b>∜</b> AC Holli aka Rope B		ney Rope Grippe	er 🗌	Independent DC Brake on	I			
						Holli	ster-Whi	ney R	ope Gripper	if NOT	120 VAC.	Specify Vo	oltage	:	
Moto	r Control Preference	1				Filte	ers								
_ ·	K.E.B K.E.B. drives	require this dat	ta to be p	rovided			ine Read	ctor							
☐ Magnetek ☐ EMI/RFI Filter															
	First Available Drive (N	Not Quatro)				□⊦	larmonic	Filter	ľ						
	Magnetek Quattro AC	(Cube Only)				!									
	I notify you if the prefe		annot be	honored											
lotes	and Special Instruction	ns													

Special Features	Not Required O	Car Call Security (Specify floors on pag 8)	Not Required
Remote (2 <sup>nd</sup> ) Fire Key Switch & Lamp  Earthquake (Includes Buzzer and Lamp)  Car-to-Lobby Key Switch  Fan and Light Auto Shutoff Circuit (CT only)  Machine Room Cabinet Power Plug  Reduced Stroke Buffer  Special Modes of Operation	Shunt-Trip Flood Sensor 'S' Button Machine Room Cabinet Light Enclosure Legs  Not Required	Using COP Floor Buttons as as Code Entry  Using Dry Contacts from Card Readers and Input in Car Station (Default) Inputs in Machine Override Security When on Independent Ser Serviced  Provide a Car Call Security Override Input Input in Car Station Input in Machine Door Open Functions on Secured Landings  Notes	e Room rvice or Attendant Room
Independent Service (Default)  Hoistway Access Yes (Default)  In-Car Inspection Switch  Medical Emergency Service (Provide floor(s) on Building is a Hospital with keys at every flood In Car Buzzer, In Car Lamp, and Hallway Lamp at each Non-Hospital – Phase 1 key at main level of In Car Buzzer and In Car Lamp are Included  Sabbath (Attach Spec)  Times  Start  End  Key Switch	Or Floor are Included		
Patient Security		Hall Call Security	Not Required
Attendant Service  Attendant Service (Is NOT Independent Service In Car Buzzer In Car Lamp	Not Required (	Provide Enable/Disable all Hall Calls Input (S  Provide a Hall Call Security Overide Input (P  Dry Contacts in Hall Fixtures (Default)  Signal in Ma	er floor)
Choose 1: Hall Call Above/Below Lamps (Default)		Controller Monitoring System	Not Required
Non-Directional All Hall Call Lamps Requires Discrete Connection from CT to CC Other:	P Panel PerLanding	Designed and Manufactured by Smartrise Engineer  Machine Room Monitoring  Local Monitoring (Lobby/Engineering/ Manag	<del></del>
Emergency Power (If Generator Cannot Run All C  E.P. Contact from Generator is  Normally Open Normally Closed  Power Pre-Transfer Contact from Generator is  Normally Open (Default) Normally Closed  Emergency Power Car Selector Switch Single Car Selection (Default) Multiple Car Selection  Number of cars the generator can operate (Default value is 1 car)  Generator powers other Simplex/Groups	Not Present (Provide details below)	Remote Monitoring (Cloud) – Requires Intern  Designed and Manufactured by Integrated Display  Lift-Net with USB RS-422 Interface (Serial)  Lift-Net with Moxa Unit Interface (Ethernet / L  Designed and Manufactured by Kings III of America  ORM (Interface Only)	net Connection  / Systems  LAN)
Emergency Power Lamp		BACnet	

Traveler and Hoistw	ay Cable (Purcha	ase from Smartrise)	
Draka: 🗌 By Draka 🗌 By SEES	James Monroe: 🔲 Tr	iumph Electric NY 🔲 CED	Not Required
	C4 Traveler Cable #2 Traveler Cable #2  Yes No 31 69 Steel Steel 1.36" 1.570" 4 5 14 40 6 Pair 11 Pair 1 2  Ype ETT > NEC Compliant, SA Type ETT, CSA FT1	Length of Cable(s) Per Car (in feet)  Car 1 Car 2 Car 3 Car 4 Car 5 Car 6	C4 Hoistway Cable  Yes 26 N/A 0.55"  26 0 No
All Fixtures Must Be			N. 12
In Car Position Indicator	Not Required (	In Hall Position Indicator	Not Required (
MWSF: Hands Free Discre  DL-20 (Interface only) MAD (  Other:			ete Signals (One line per floor ete Signals (Binary)  MAD (Serial)  MWSF: Hands Free
In Car Arrival Lantern	Not Required (	In Hall Arrival Lanterns	Not Required (
	te Signals wattage (If discrete):	First Floor Only (Discrete)  All Floors (Smartrise Hall Boards)  If Lamps/Gongs are not 24 VDC / 6	CE Micro Com Lanterns (Type: SA130M Req.  EX-51/EX31 (Interface only)  Watt (Explain below)
In Car Passing Chime	Not Required (		()
Bulb/Chime	ete Signals wattage (If discrete):		
In Car Voice Annunciator	Not Required (	Lobby Panel	Not Required (
CE Micro Com Speaker is Ren	mote	Door Open Lamp On Independent Svc. Lamp	In Use Lamp In Service Lamp
Other:			_ '
Load Weighing Load Weigher Provided By	Not Required (	Other Requirements	
Smartise Customer  # Ropes Rope Diame	2:1 Roping		
	Cross Head Sensors  Rope Deflection Sensors		

		Use this o	door for all cars or specify which cars use it	1 [			Ī	Use this	door for all cars or specify which cars use it						
	Door Type	All	Car 1 Car 2 Car 3 Car 4	1		Door Type	ł	All	Car 1 Car 2 Car 3 Car 4						
	ï					2									
				┪┝											
Ha	II Door Type			יוו	Hal	II Door Type									
	Auto Passenge	er (Default)	Manual	Auto Passenger (Default) Manual											
Ca	ar Door Type			Car Door Type											
Auto Passenger (Default) Manual Powered Freight (See * below)						Auto Passenger (Default) Manual Powered Freight (See * below)									
Select Door Operator						lect Door Op	erator								
	Abell	ATS 0090	Field "EZ"			Abell	ATS 0	090	Field "EZ"						
	Fermator	VVVF5	Linear Door Operator			Fermator	VVV	F5	Linear Door Operator						
	GAL	MODCTL	24 VDC Interface Relays			GAL	MOD	CTL	24 VDC Interface Relays						
	GAL	MOD	L, G, or X			GAL	MO	D	L, G, or X						
	GAL	MOVFR	230 VAC Input Voltage			GAL	MOV	FR	230 VAC Input Voltage						
	Kone	Mac	104 or 105D Interface Board			Kone	Ма	С	104 or 105D Interface Board						
	Kone	PMSSC	104 or 105D Interface Board			Kone	PMS	SC	104 or 105D Interface Board						
	Otis	Glide A	Discrete Only			Otis	Glide	Α	Discrete Only						
	Otis	AT-400	240 VAC / 120 VAC Interface Power Supply by SRE (Discrete)			Otis	AT-4	00	240 VAC / 120 VAC Interface Powr Supply by SRE (Discrete)						
	TKE	Dover HD-03	Only M Models			TKE	Dover H	1D-03	Only M Models						
	TKE	Dover HD-73	Type D/IVO			TKE	Dover H	ID-73	Type D/IVO						
	TKE	Dover HD-91	DC Motor			TKE	Dover H	ID-91	DC Motor						
	TKE	HDLM	Requires UIT_I/O Card			TKE	HDL	.M	Requires UIT_I/O Card						
	Wittur	Mini/Supra	120 VAC / 230 VAC			Wittur	Mini/S	upra	120 VAC / 230 VAC						
	EMS		*Input Freight/Door Information at		4	EMS			*Input Freight/Door Information at						
	Courion		Bottom		_	Courion			Bottom						
	Peelle			Į <u>Į</u>	≓⊦	Peelle									
	Other		*Input Other Door Information at Bottom	Į Ľ		Other			*Input Other Door Information at Bottom						
	Door Prote	ction		П		Door Prote	oction								
L	] =			$  \  ^{L}$											
	Photo Eye/Ligh Curtain (Defaul		Mechanical Safety Edge Door Hold Button	Photo Eye/Light Mechanical Safety Edge Door Hold Button Curtain (Default)											
	Cam			Cam											
	Mechanical	☐ DC	AC (3-Phase) AC (Single Phase)			Mechanica I		DC	AC (3-Phase) AC (Single Phase)						
	Volts	Amps				Volts	Amp	os							
	Gate Rele	ase		П		Gate Relea	ise								
		400	Volts Amps	╽╽┖		J Gato Holos			Volts Amps						
		(3-Phase) A	C (Single Phase)		_	DC AC		_	(Single Phase)						
(	Other Door Info	ormation			0	other Door Info	ormation								
*[	roight/Othor D	aar Operation	Information	JL	No	too and Chasi	ial laatau	ationa							
- FI	eight/Other D	our Operation	iniomation	] [	INO	tes and Speci	iai instruc	วแบทร:							
М	anufacturer														
	Model														
Re	ference #'s														
le		Door Manufact	uror are Deguired												

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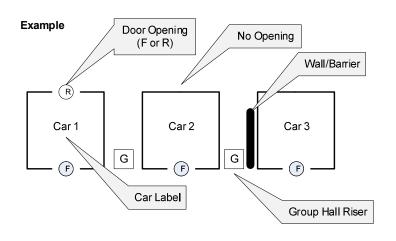
		gs (continued on page 9 for landings 25 - 64)  Floor Openings     Car Call Security									Hall Call Security Hosp						
FIOULI	ntorma Floor	tion (1 <b>-2</b> 4	Floor	4													
	Index Ov	Label erhead	Height	Car 1	Car 2 FR	Car 3 F R	Car 4 F R	Car 1 F R	Car 2 F R	Car3	Car 4 F R	Car 1 F R	Car 2	Car 3 F R	Car 4 F R	F R	
	24	ault 13ft								ПП							
	23																
	22																
	21																
	20		_														
	19																
	18																
	17																
	16																
	15																
	14																
	13																
	12		_														
	11																
	10																
We will default to	9																
the lobby landing and the landing	8																
above for main and alternate fire	7																
floor respectively	6																
	5																
	4																
	3																
	2																
	1																
<b>7 7 7</b>	Default Pl Labels	Pit -> (Default 4 <sup>th</sup> )	_		<u>                                     </u>	Pit			<u> </u>	rit			<u>                                     </u>	Pit		Pit	
		(Derauk 4 )		A	ll cars s	ame as	Car 1	☐ All	cars sa	me as	Car 1	□ All	cars sa	me as	Car 1		
				□ A	ll walk-t	hrough		☐ All	walk-th	rough			walk-th	rough			
		Main Fire/Lo	bby Floor		ll front			☐ All			_	☐ All	front	T	_		
		Alt Fire Floo	-	Nur	nber of	TIOORS		Numi	per of fl				ber of fl	oors [			
	— I	EMT/Flood F	loor						If mix	ced F/F	R, select	boxes a	bove				
				Contr	nclude oller (M	Hall Ne IR) to H	twork (	CAT5 pac	ckage stway)	CAT5	Cable Le	enath $\Box$	25 ft (	Defaul	t) 🗆	50 ft □	] 100 ft
	Hoistw				\- <u>-</u>	, - ,		(21	.,,				(		,		
Car 1	eight (ft)	)			□ \\/alla	nrough Or	dy: Too										
				F R				n Switch C	ar #s	Г <del></del>							
Car 2		$\overline{}$			<u> </u>					Hoi	stway (	Conside	ration				
Car 4				FR	Walkth	nrough Or	ly: Botton	n On Switch C	or #e		Corr	ner Pos	t Rails				
☐ All cars sar	ma aa (	Cor 1				0110111013	tway Opic	on owner of	ui #3								
□ All Cals sai	iie as c	Jai i															
Natas and Ones	:-1 14			J													
Notes and Spec	iai inst	ructions:								Ove	erlav wi	th Exist	ina Fai	Jipmen	nt		
														-			
											_	s Registi		-			
												noose one d ails about t				neer will cont s.	act you
										In	nportant: F	Provide Ph	ıysi cal La	yout on 1	1		

Continued from page 8 Check this box if more than 64 landings (continued on page 10 for landings 65-96)

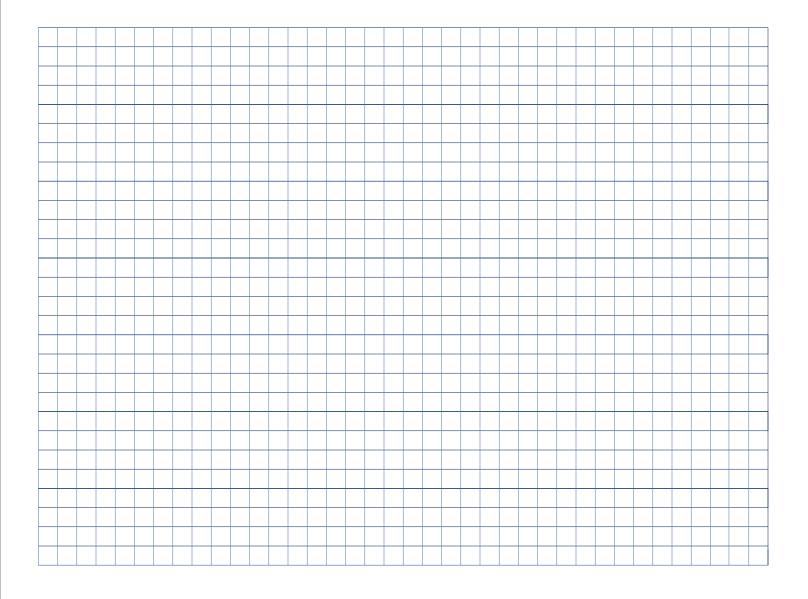
Floor Information (25-64)	Floor Openings	Car Call Security	Hall Call Security	Hosp
Floor Floor Floor	Car 1 Car 2 Car 3 Car 4	Car 1 Car 2 Car 3 Car 4	Car 1 Car 2 Car 3 Car 4	
Index Label Height Overhead Default 13ft	FR FR FR	FR FR FR	F R F R F R F R	F R
64	llaataataataat			
63				
62				
61				
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
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42				
41				
40				
39				
38				
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32				
31				
30				
29				
28				
27				
26				
25				
Enter height between landings 24 and 25 →				
L	1			

Continued from page 9

Floor Information (65	Floor Openings				C	ar Call	Securi	ty	Hall Call Security				Hosp	
Floor Floor Index Label	Floor Height	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4	
Overhead Default 13ft	rreignt	F R	FR	FR	FR	FR	FR	FR	F R	FR	FR	FR	FR	F R
96														
95														
94														
93														
92														
91														
90														
89														
88														
87														
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76														
75														
74														
73														
72														
71														
70														
69														
68														
67														
66														
65														
Enter height between landings 64 and 65→														



# Draw a topographical map of elevator(s) location on grid provided. \* Accurately label each car by number/letter \* Mark openings a F (front) or R (rear) \* Label risers as: G = Group Riser I = Inconspicuous Riser H = Hospital Service Riser \* Draw in walls/barriers (heavy line) Notes/Special Considerations



- \* Complete only if purchasing a motor from Smartrise
- \* All other motor data must have been provided on page 4

Existing Machine Information	Exiting Motor Information
Machine Brand Model Style	Manufacturer:  Frame Size/Style:  Foot Mount  Flange Mount
Counter Weight Percentage:	HP Volts RPM
New Motor Information	Car Speed
Volts Encoder Cable Length  RPM 30 Ft.  40 Ft.  50 Ft.  Straight Shaft Other Ft.  Tapered Shaft	Car Capacity  Machine Location Overhead  Basement
Coupling Survey (Only If Provided by Smartrise)  (CF) Coupling Flange Diameter  Number of Mounting Bolts  Bolt Size  (BH) Bolt Hole Diameter  (BTB) Center Bolt to Center  Bolt (BC) Bolt Circle	BTB CF BTB BH CF