

# **C4 TRACTION AC**

Engineering Data Form - Page 1

Rev 4.0 200821

# 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.

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 and 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 and Functions	11. Elevator(s) Physical Layout									
	6. Cables and Fixtures	12. Motor Purchase from Smartrise									
Job Details											
Job Name:		Market Segment: Financial									
Job Name: 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	Contact Information: (If different than above)	Job Site Address: (Address Where Controller(s) Will Be Installed)									
Name:		Street:									
Phone:	Fax:	Street.									
Cell:		City:									
Email:		State:									
	Date Filled Out	Zip Code:									
Ruilding Own	er/Manager Information	Notes and Special Instructions									
Name:											
Phone:											
Email:											
Street:											
City:											
State:											

# **Shipping and Pre-Wire**

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Shipping Information				
Contact Name: Phone: Contact Fax/Email:  Smartrise Call Prior to Shippi Carrier Call for Delivery Appointme Lift Gate Requir  Freight Terms  Use Smartrise Carrier:	ent: Yes No	Customer's Carrier Name: Carrier's Account Number:	Collect Third-Party Billing (Duties & Taxes)	Third-Party
Ship to Name/Company: Shipping Address:			Bill To Address:	
Shipping Schedule		$\neg$		
Controller(s)  Note: Desired ship date from Smar	Desired Ship Date from Sma	rtrise (	Controller(s) De	esired Ship Date from Smartrise
Pre-wire Fixtures (Must be 24 VDC	/ 6 \Watt Max \			Not Required
Pre-wire Pixtures (Must be 24 VDC  Pre-wire COP Boards: Yes  Pre-wire Hall Boards: Yes  Fixture Manufacturer Innovation ECC Monitor MAD  PTL	No (Default) No (Default) Other	Company Name:  Ship to Address:		Not required
Job Reference:		Contact Perso	on at Mfg.	

# **General Controller Information**

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Electrical Main Line and Transformer Specification	Configuration								
Main Line Specification:  Main Line Volts (Transformer required if motor volts are 10% greater than main line	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)	Outer.								
Provided by Smartrise	Destination Dispatch								
Provided By Customer (Customer to provide drawing)									
Secondary Voltage	Lobby Boost (Lobby Only) Full (All Floors)								
kVA									
Data Plate Copy Included									
	Build to Job Specifications Not Required								
Environmental Considerations Not Required	We will review the spec and provide a list of exceptions, when								
Controller Cabinet Air conditioned cooled (add A/C Unit) Controller	necessary								
	Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide								
Controller Cabinet Forced Air cooled (add Fan and Filter)	page/section and description of exceptions)								
Arc Flash Protection									
Special attention to hoistway shaft (Provide details in notes below)									
Outdoor or Hostile (Industrial Environment)									
NEMA Rating for Machine Room Controller Cabinet									
(If required, default NEMA 1)									
NEMA Rating for Top of Car Enclosure (If required)									
Car Operating Panel									
Single Panel (Default) Dual Panels	ASME 17.1 Elevator Safety Code Compliance								
Remote COP (Discrete in M/R)	2016 Additional Local Code								
	2013								
Notes and Special Instructions	2010								
	2007 NYC (Appendix K)								
	2000 No Fire Service MASSACHUSETTS								
	Connection Package (Run Box)								
	SmartConnect Package – Recommended								
	(Pre-Wired Car Top Inspection Box included)								

# Traction Features, Motor/Encoder, and Brake Data

## C4 TRACTION AC - Engineering Data Form - Page 4

Tract	ion Features (	Featu	res for	all cars a	re the s	ame as	car 1)	Failure to	provid	e data	will re	sult in d	elay of	cont	roller	shipm	ent			
Car	Contract Speed	Capaci	ty	Motor Provi	ded By	Enco	der Pro	ovided By	, С	Customer Supplied Encoder Info			gn Kit	MR	L Batte	ry Resc	ue	Gov Res		ls ) VAC
1				Smartris Custom		Smartris Custom		None les info in no	otes)	M	lake	٦ [		=	uto Rescue Operation Ianual Brake Release					$\supset  $
2				Smartris Custom	1 =	Smartris Custom		None les info in no	otes)				Auto Rescue Opera							
3				Smartris Custom	1 =	Smartris Custom	_	None les info in no	otes)	Model			Auto Rescue Oper							
4				Smartris		Smartris Custom		None les info in no	otes)					=	to Resc anual Br					
Motor	/Encoder Data	• (□ D	ata for	all care a	ro the s	ame as a	oor 1)	Failure to	provid	o data	will ro	eult in	delay d	f con	trollor	chinr	nont			$\equiv$
Car	Machine E	`		Motor	FLA	HP	RPM	Motor	# of	PM.	Accel	Rope	She	eave	Gear	· Ti	Encode			Shaft
1	Widomie	Si di la/ivio		Volts	100		T CI IVI	Freq.	Poles	Vo	olts	Ratio		ia.	Ratio		PPR	Length	1	Dia
2																				
3																				
4																				
Moto	r Data for IM 8	k PM Moto	ors (	Data fo	r all car	s are the	same	as car 1)	Failure	to pro	vide d	ata will	result ir	n dela	ay of o	contro	ller shi	pment	•	一
Car			М	otor Type				Machine	Туре	MRL	Locat	ion	Mount		F	Peak An	nps			
1	Induction Motor		e Speed	Motor (Defa	ult) [	Oual Speed	Motor	Geare				erhead sement	Foo							
2	☐ Induction Motor☐ Permanent Mag		e Speed	Motor (Defa	ult) [	Dual Speed	Motor	Geare				erhead sement	Foo							
3	Induction Motor Single Speed Motor (Default) Dual Speed Motor  Permanent Magnet Motor							Geare	Seared Overhead Foot											
4	Induction Motor	_	e Speed I	Motor (Defa	ult) [	Dual Speed	Motor	Geare				erhead sement	Foo							
Brake	Brake Data ( Data for all cars are the same as car 1) Failure to provide data will result in delay of controller shipment																			
Car	DC DC	ita ioi ali (	Pick V	olts H	old Volts	Coil		Coil	ta wiii i	Count		rgency (2 <sup>r</sup>		ШРПП	OTIL			pendent (2 <sup>nd</sup> )		
1	DC (Default	:)	(DC	) (L	C Only)	Resistan	ce An	nperage [	=	C Hollist		ey Rope C	Gripper		pender Brake o		Pick VDC	Hold VDC	Coil Ω	Coil Amp
2	DC (Default	:)							120 VA		ter-Whitn	ey Rope (	Gripper		pender Brake o					
3	DC (Default	:)							120 VA	-	ter-Whitn	ey Rope (	Gripper		pender Brake o					
4	DC (Default	:)						]		C Hollist	ter-Whitn	ey Rope (	Gripper		pender Brake o					
												pe Grip	per <b>if N</b>	IOT	120 V	AC. S	pecify	Voltage:		
Moto	Control Prefe	erence		Fil	ters															
	Magnetek - Def	fault		: -	Line F	Reactor														
_	K.E.B.			: -	_	RFI Filter														
		tro AC (C	uha Or	,,, : <u> </u>	_	onic Filte														
	Magnetek Quat	.iio AC (C	ube Oi	"y)				:												
Notes	and Special Ir	nstructions	s:																	

# **Features and Functions**

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Special Features	Not Required (	Car Call Security (specify floors on page	Not Required
Remote (2 <sup>nd</sup> ) Fire Key Switch & Lamp	Shunt-Trip	Using COP Floor Buttons as Code Er	ntry
Earthquake (Includes Buzzer and Lamp)	Flood Sensor	Using Dry Contacts from Card Reade	rs and/or Key Switches
Car-to-Lobby Key Switch	'S' Button		in Machine Room
Fan and Light Auto Shutoff Circuit	── ── Machine Room	Override Security When on Independ Serviced	ent Service of Attendant
(CT only)	Cabinet Light	Provide a Car Call Security Override	
Machine Room Cabinet Power Plug		Input in Car Station Input in Mac	
		Door Open Button Functions on Secu	red Landings
Special Modes of Operation	Not Required (	Notes	
In-Car Inspection Switch (Uses top/bottom ca	ar calls)		
Medical Emergency Service (Provide floor(s) on p	page 8)		
Building is a Hospital with keys at every flo			
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	orny		
Sabbath (Attach spec)			
Times		Hall Call Security	Not Required
Start End		Provide Enable/Disable all Hall Calls	Input (Simplex)
		Provide a Hall Call Security Override	Input (Per floor)
Key Switch		Dry Contacts in Hall Fixtures (Default)	
Patient Security		Controller Monitoring System	Not Required
Francisco Pourse (16 Companios Compat Pura Military	March Net De maine d	Designed and Manufactured by Smartrise	
Emergency Power (If Generator Cannot RunAIII	Cars) Not Required	(Every C4 Controller comes with an 11 inch laptop and D Quantity of Additional Viewing Devices	.A.D unit)
E.P. Contact from Generator is		21 Inch 24 Inch	27 Inch
☐ Normally Open (Default) ☐ Normally Closed  Power Pre-Transfer Contact from Generator is		(All-in-one Computer) (All-in-one Computer)	ter) (All-in-one Computer)
	Not Present	Machine Room Monitoring	
Emergency Power Car Selector Switch		Local Monitoring (Lobby/Engineering/Management)	
Single Car Selection (Default) Multiple Car Selection	(Provide details below)	Remote Monitoring (Cloud) – Requires Internet Con	nection
Number of cars the generator can opera (Default value is 1 car)	te simultaneously	Designed and Manufactured by Integrated	<u>Display Systems</u>
Generator powers other Simplex/Groups		Lift-Net with USB RS-422 Interface (Serial)	
Emergency Power Lamp		Lift-Net with Moxa Unit Interface (Ethernet / LAN)	ı
Attendant Service	Not Required (	Designed and Manufactured by Kings III o	f America
	- 4	ORM (Interface only)	
Attendant Service (Is NOT Independent Servi	ce)	BACnet	
☐ In Car Buzzer ☐ In Car Lamp			
Choose 1: Hall Call Above/Below Lamps (Default)			

• Traveler and Hoistway Cable (Purch	nase from Smartrise)
☐ Draka ☐ James Monroe	Not Required
C4 Traveler Cable #1	Car   Car 2   Car 3   Car 4   Car 5   Car 6   No
• All Fixtures Must Be 24 VDC / 6 Wa	
In Car Position Indicator Not Required	In Hall Position Indicator Not Required
CE Micro Com (Default) Discrete Signals (One line per floor)  Emotive 3-Wire Discrete Signals (Binary)  Other:	CE Micro Com (Default) Discrete Signals (One line per floor)  Emotive 3-Wire Discrete Signals (Binary)  # of Floors with Hall Position Indicators  Other:
In Car Arrival Lantern Not Required	In Hall Arrival Lanterns Not Required
CE Micro Com (Default) Discrete Signals Emotive 3-Wire Bulb/Chime wattage (If discrete): Other:  In Car Passing Chime Not Required CE Micro Com (Default) Discrete Signal	First Floor Only (Discrete)  CE Micro Com Lanterns (Type: SA130M Req.)  All Floors (Smartrise Hall Boards)  Emotive 3-Wire  If Lamps/Gongs are not 24 VDC / 6 Watt (Explain below)
Emotive 3-Wire Bulb/Chime wattage (If discrete):	Lobby Panel Not Required
In Car Voice Annunciator  CE Micro Com Interface Only  Not Required  Speaker is Remote	Door Open Lamp In Use Lamp On Independent Svc. Lamp In Service Lamp
Other:	Other Requirements
Load Weighing Not Required	
Load Weigher Provided By  Smartrise  Customer  Anti-Nuisance  # Ropes  Rope Diameter  2:1 Roping  2:1 Roping	

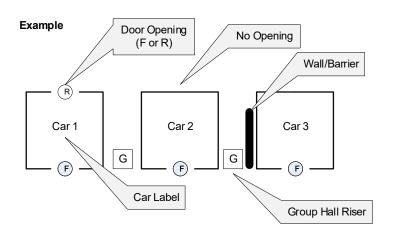
								_								7.0 200021			
	Door  Use this door for all cars or specify which cars use it									Door		Use this d	oor for all cars	or specify whi	ch cars use it				
	Type 1		All	Car 1	Car 2	Car 3	Car 4			Type 2		All	Car 1	Car 2	Car 3	Car 4			
	ı		] F 🗌 R	☐ F  R	☐ F  R	☐ F  R	☐ F  R	l ∟				F F	R F R	☐ F ☐ R	☐ F☐ R	☐ F☐ R			
На	II Door Type							l I₊	lall Do	or Type									
Auto Passenger (Default) Manual										uto Passenger	r (Default)	Пν	1an ual						
٥.	_	i (Delault)		nanuai				Н,		or Type	(Boldun)		rai radi						
C	ar Door Type																		
Auto Passenger (Default) Manual Powered Freight (See * below)								Ш,		_		IV	ranuai	Powered	Freignt (See	below)			
<u> </u>	Select Door Operator  Abell ATS 0090 Field "EZ"						Ab	Door Ope	ATS	0000	Field "EZ"								
	Abell GAL	MODO		Field "EZ"		love.		╽╠	GA		MOD			torfoos role	21/0				
	GAL	MOE		L, G, or X	nterface re	ays		╽╠	GA		MOL		L, G, or X	iterface rela	ays				
	GAL	MOVE			input volta	100		╽╠	GA		MO			input voltag	10				
	Kone	Mac			5D Interfa				Ko		M			5D Interfac					
	Kone	PMSS			5D Interfa			╽╠	Ko		PMS			5D Interfac					
					/ 120 VAC						AT-								
	Otis	AT-40	()()	Glide A ([		mieriace			Oti	S	(Disc		240 VAC	/ 120 VAC	Interface				
	TKE	Dover H	ID-03	Requires	IO Card: 6	300TX2 (	(110 VAC)		TK	E	Dover	HD-03	Requires	IO Card: 60	300TX2 (1	10 VAC)			
	TKE	Dover H	ID-73	Type D/IV	0				TK	E	Dover	HD-73	Type D/IV	0					
	TKE	Dover H	ID-91	DC Motor	•				TK	E	Dover	HD-91	DC Motor						
	TKE	HDLI	М	Requires	UIT_I/O C	ard			TK	E	HD	LM	Requires	UIT_I/O Ca	ırd				
	Fermator	VVVF	F5	Linear Do	or Operato	or			Fe	mator	VV	/F5	Linear Do	or Operato	r				
	Other			Input Oth	er Informa	tion belov	N		Oth	ner			Input Oth	er Informat	ion below				
	Door Prote  Photo Eye/Ligh (Default)  Cam  Mechanical  Volts  Gate Relea  DC AC  Other Door Info	t Curtain  D  Amps  ase (3-Phase) [	OC s	chanical Safe	hase) Volts	☐ AC (Si	Hold Button ingle Phase)			Photo Eye/Lig (Default)  Cam  Mechanica  Volts  Gate Rela  DC A	I A	DC mps	lechanical Safr	hase)	☐ AC (Sin	gle Phase)			
M. Re	reight Door Op anufacturer Model ference #'s							<u> </u>	Notes	and Specia	al Instrud	ctions:							
Jo	Prints from D	oor Manu	ufacture	r are Req	uired														

					gs (continued on page 9 for landings 25-64)  Floor Openings Car Cal													
F	Floor Information (1-24)  Floor   Floor   Floor			11	1					all Secu	1			Hosp				
	Index	Label	Height	Car 1 F R	Car 2	Car 3	Car 4	Car				Car 1	Car 2	Car 3	Car 4	F R		
	Def 24	ault 13ft				F R	F R		R F F	FR	FR			F R	FR			
	23																	
	22																	
	21																	
	20																	
	19									166								
	18									100								
	17		-															
	16																	
	15																	
	14																	
	13		-															
	12																	
	11																	
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	8																	
	7																	
	6																	
	5																	
	4			1														
	3																	
	2																	
<b> </b> ╁╁╁	1 Default	Pit->														Dia.		
	PILabels	(Default 4 <sup>th</sup> )				Pit	Cor 1		ll core	Pit same as	Cor 1		cars sa	Pit	Cor 1	Pit		
				_	ııcarss Ilwalk-t		s Car 1	1		same as through			walk-th		Cari			
				□ A	ll front				II front				front	_				
			ire/Lobby Floor Floor	Nur	nber of	floors		Nui	mber of	floors		Num	ber of f	loors				
			lood Floor						If n	nixed F/	R, select	boxes a	bove					
							twork (			) CAT5	Cable L	ength [	25 ft	(Default	t) 🗆	50 ft □	100 ft	
[		oistway																
Car 1	Heigh	π (π)			Walkt	hrough O	nly: Top											
Car 2				F R	Locat	ion of Hois	stway Up/	Dn Switch	h Car #s									
Car 3					<u> </u>					н	ostway (	Conside	ration					
Car 4					Walkt	hrough O	nly: Botto	m			Con	ner Post	Rails					
☐ All car	s same	as Car 1		F R	Locati	on of Hoi	stway Up/	'Dn Switc	h Car#s									
		-· ·			1													
Notes and	Special	Instruction	ons:															
										Ov	erlay wi	th Exist	ing Eq	uipmer	nt			
											Cros	s Regist	ration S	System				
										'					artrise engi	ineer will conta	act you	
												tails about					- ,	
										'	mportant:	Provide Ph	ysical La	yout on S	Sheet 11			

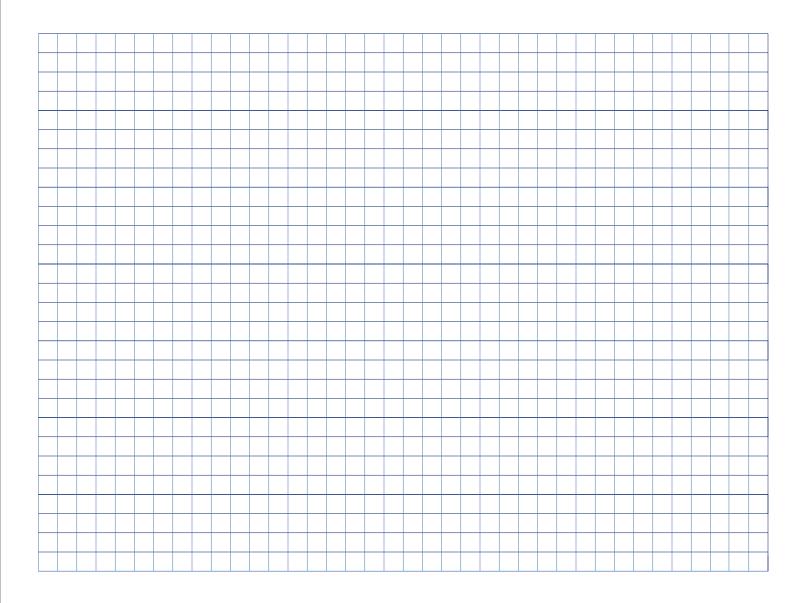
Continued from page 8 Check this box if more than 64 landings (continued on page 10 for landings 65-96)

Floor Information (25	Floor O	penings	3	С	ar Call	Securit	.y	F	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		F R F R	F R	FR	F R	F R	FR	FR	FR	F R	FR	FR	FR
64													
63													
62													
61													
60													
59													
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34													
33 32													
32													
30													
29													
28													
27													
26													
25													
Enter height between landings 24 and 25 →													
□ The Financy is between landings 24 and 25 →													

Continued from page 9 Floor Openings Floor Information (65-96) Car Call Security Hall Call Security Hosp Car 2 Car 3 Car 4 Car 1 Car 2 Car 3 Car 4 Car 2 Car 3 Labe Overhe ad F R F R F R F R F R F R F R F R F R F R Default 13ft 96 95 94 92 91 90 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 71 70 69 68 67 66 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  Volts Encoder Cable Length	Car Speed
Volts Straight Shaft Other Ft.	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 BH CF