



Motion Control Engineering

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Doc #: 42-FR-0451 B3 (JER142)
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Element Hydraulic
Engineering Survey Form

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In order to better serve you and meet your schedule, this form must be completed and signed. Timely delivery and trouble-free installation begin with these data forms. Accurate, complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.

Note: For any feature, accessory, or provision **NOT** listed, Element Series will not be able to meet the requirements of your application. Please contact your MCE Sales Account Manager for an alternate product price quotation.

Date:	Number of cars:
Job Name: (26 Chars per line)	

Job Location (city and state):	
Contract Date:	
Project Type: <input type="checkbox"/> New construction <input type="checkbox"/> Modernization	
Customer Job #:	PO#:

Delivery Schedule

Control	Delivery Date
Car " _____ "	_____
Car " _____ "	_____

Shipping Information

Contact:		
Phone:	Fax:	
Company name and address:		

City	State	Zip Code
Shipping Requirement:		
Advanced Notice:	<input type="checkbox"/> 24 hours	<input type="checkbox"/> 48 hours
Truck w/ Lift Gate:	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Contractor Information (Check if same as above)

Contact:		
Phone:	Fax:	
Email:		
Company name and address:		

City	State	Zip Code

Per state tax laws, it is critical that MCE receive exemption or resale certificates prior to the material being shipped and billed. If the job is a tax-exempt job, send the exemption certificate with this form. If you are a resale customer and have a resale certificate, please make sure that the MCE accounting department has a copy on file.

Contact:

Phone:	Fax:
Cell:	
Email:	
Company name:	
Signature:	

Elevator Safety Code Compliance

Accurate information is essential.

North American Compliance:	<input type="checkbox"/> U.S.	<input type="checkbox"/> Canada
ASME A17.1/B44 Edition:	<input type="checkbox"/> 2019	
	<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000	
Addenda/Supplements:	<input type="checkbox"/> 2008(a)	<input type="checkbox"/> 2005(a)
(None for A17.1-2010 and later)	<input type="checkbox"/> 2009(b)	<input type="checkbox"/> 2005(S)
	<input type="checkbox"/> 2003(b)	
<input type="checkbox"/> ASME A17.1-1996 Addenda: <input type="checkbox"/> 1997(a) <input type="checkbox"/> 1998(b)		
Additional state or local code compliance		
<input type="checkbox"/> Chicago Fire Code (select one): <input type="checkbox"/> Current OR <input type="checkbox"/> 2001		
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway		
<input type="checkbox"/> Maryland		
<input type="checkbox"/> Massachusetts (2004)		
<input type="checkbox"/> Michigan (NOTE: Detroit not supported.)		
<input type="checkbox"/> Nebraska		
<input type="checkbox"/> New York City		
<input type="checkbox"/> Washington State <input type="checkbox"/> Seattle		

Selective Collective (Supports single riser installation only)

Simplex Duplex***

Hoistway Configuration, Speed & Capacity

Floor Label *	Landing #	Floor Height	Car ____	Car ____	Lobby Floor	Parking Floor		Fire Service Recall Landing		Car Call Security <input type="checkbox"/> Key Floor Lockout <input type="checkbox"/> Card Reader Dry Contact. (24V Contact Rating) **	Pit Flood Operation <input type="checkbox"/>	EMT Service <input type="checkbox"/>	
						Main	Alternate	Main	Alternate				
		O.H.	Select floors served:										
	6	5-6	<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"/>	
	5	4-5	<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"/>	
	4	3-4	<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"/>	
	3	2-3	<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"/>	
	2	1-2	<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"/>	
	1	Pit	<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"/>	
Capacity <input type="checkbox"/> lbs. <input type="checkbox"/> kg						If no parking floor, car stays at last call answered.		Hoistway Sensor(s) <input type="checkbox"/> Above lowest landing of recall <input type="checkbox"/> At or below lowest landing of recall <input type="checkbox"/> None <input type="checkbox"/> At or below designated level		Key Floor Lockout Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby		Please indicate lowest landing car can serve in an event of a flood.	Please indicate main EMT return floor.
Up Speed <input type="checkbox"/> fpm <input type="checkbox"/> m/s						<input type="checkbox"/> Park with Doors Open. <input type="checkbox"/> Doors stay open without demand.				Card Reader Override Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby <input type="checkbox"/> None			
Down Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s						Egress floor ____				<input type="checkbox"/> Independent Service Override			
Total Car Travel: <input type="checkbox"/> ft <input type="checkbox"/> m													

* Floor Label note: For CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (BBB)

** Card Reader Dry Contact note: If selected, all floors will be secured by default. However, this can be changed in the controller configuration menu.

*** Only single machine room and single hoistway are supported for duplex applications.

Line Voltage

3-Phase AC Line Voltage (actual measured line voltage)

- Symmetrical Grounded Leg Delta
(ISO transformer required)

Choose closest selection below:

- 208 220 240 440
 460 480 575 600

- 60 Hz (standard in U.S.) 50 Hz

Available Fault Current from AC Feed (kA): _____

Standard Controller SCCR (Short Circuit Current Rating):

- Up to 50 hp: 5kA
- 51-200 hp: 10kA

If the available fault current exceeds these standard values, please notify MCE for a quote.

Hydraulic Data

IMPORTANT: Only single motor operation and standard 4-coil, 120 VAC, valves are supported by this product.

Solid State Motor Starter

Brand: Siemens Sprecher + Schuh

Pump Motor

Motor brand: _____ HP: _____

Voltage: _____ FLA: _____

Number of Leads: 3 6 9 12

Starts per hour: 80 120

Valve Type (120 VAC / 4 coil valve)

Brand EECO Maxton
 Blain TKE/Dover

Model: _____

Hydraulic Features

- Battery Rescue (MCE HAPS)
- Life Jacket Interface
- Low Oil Switch
Contact Status: N/O N/C
- Oil Tank Temperature Shutdown Switch
(required for A17.1-2010/B44-10 and later)
- Pressure Switch Interface
(required when top of cylinder is above top of storage tank)
- Viscosity Control
- Resynchronous Circuit for Telescopic or Dual Pistons

Operating Features

Earthquake Service

- Seismic Switch
 By MCE By Customer

Emergency Power Generator

- Simplex** Resume operation after recovering to closest floor.
Duplex Sequentially lowers both cars to lobby. 3-position Emergency power/standby switch (Auto / Car A / Car B) will select which elevator to run.

Fire Service Operation (Fire Operation Provided as Standard)

- Additional Phase 1 Recall Switch
 Nudging during Fire Recall

Inspection/Access Requirements

- Car Top Inspection Station by MCE (NEMA 1 only)
 In-Car Inspection (2-position switch)
 With Up/Down Buttons
 Hoistway Access (2-position switch on COP required)
 Top Bottom

Load Weigher

- Discrete Load Weigher Interface

Recall Switch

Car to Lobby Switch

Recall Landing: _____ Floor Label: _____
Park with doors: Open Closed
Location of Switch: Car Hall

Car to Floor Switch

Recall Landing: _____ Floor Label: _____
Park with doors: Open Closed
Location of Switch: Car Hall

Car Shut Down Switch

Recall Landing: _____ Floor Label: _____
Park with doors: Open Closed
Location of Switch: Car Hall

Hoistway

(IMPORTANT: Only NEMA 1 hoistway supported on this product.)

Landing System

Distance Feedback

- LS-EDGE

Non-distance feedback

- LS-QUTE-24
 Customer Supplied

Tape Length Required (ft): _____

Tape Type

- Steel (Standard)
 Stainless Steel

EECO Limit Switch

(Note: Mechanical limits are not required with LS-EDGE landing system)

Element Traveling Cable (see page 5 for details)

(Hang length maximum 200 ft.)
Cable Length Required (ft): _____
Cable Accessories
 Kellem Grips

Automatic Passenger Style Doors

IMPORTANT: Only fully automatic, horizontally-sliding, passenger-style doors are supported on this product.

Built-in: Door operator interface is built in. The controller can interface with the door operator directly.

IPC Universal Interface: Interface with existing operator to open loop. Uses IPC Universal Interface Board.

SmarTraq Upgrade Kit: Upgrades existing door operator to closed loop. Comes with drive interface and motor.

Door Operator		
Manufacturer	Model	Interface
Armor	C4	<input type="checkbox"/> SmarTraq Upgrade Kit
ECI	895	<input type="checkbox"/> Built-In
	1000	<input type="checkbox"/> Built-In
	2000	<input type="checkbox"/> Built-In
	VFE2500 (220V only)	<input type="checkbox"/> Built-In
GAL	MOD (220V only)	<input type="checkbox"/> Built-In
	MODHFL (220V only)	<input type="checkbox"/> Built-In
	MODP	<input type="checkbox"/> IPC Universal Interface
	MOVFR (220V only)	<input type="checkbox"/> SmarTraq Upgrade Kit
Haughton	T	<input type="checkbox"/> Built-In
		<input type="checkbox"/> SmarTraq Upgrade Kit
	T1	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
MCE	Profile	<input type="checkbox"/> Built-In
	SmarTraq	<input type="checkbox"/> Built-In
Montgomery	MAC PMSSC	<input type="checkbox"/> Built-In
		<input type="checkbox"/> SmarTraq Upgrade Kit
	Old-Style MAC	<input type="checkbox"/> IPC Universal Interface
Otis	7300	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	7782	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	6970A - Reactance	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	6970A - Resistance	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	AT400*	<input type="checkbox"/> Built-In
TKE/Dover	052	<input type="checkbox"/> IPC Universal Interface
	DC-62	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	DC-68	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-70	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-73	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-85	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-91	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-98	<input type="checkbox"/> IPC Universal Interface
	<input type="checkbox"/> SmarTraq Upgrade Kit	
Westinghouse	HD-LM	<input type="checkbox"/> Built-In
	MKII	<input type="checkbox"/> IPC Universal Interface
	Type D	<input type="checkbox"/> IPC Universal Interface
	A	<input type="checkbox"/> SmarTraq Upgrade Kit
	AA	<input type="checkbox"/> IPC Universal Interface
	B	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	BB	<input type="checkbox"/> IPC Universal Interface
	BB2	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	E	<input type="checkbox"/> IPC Universal Interface
		<input type="checkbox"/> SmarTraq Upgrade Kit
	E4A	<input type="checkbox"/> IPC Universal Interface
	EZ	<input type="checkbox"/> SmarTraq Upgrade Kit
HY	<input type="checkbox"/> IPC Universal Interface	
	<input type="checkbox"/> SmarTraq Upgrade Kit	
MG	<input type="checkbox"/> IPC Universal Interface	
	<input type="checkbox"/> SmarTraq Upgrade Kit	
MS	<input type="checkbox"/> IPC Universal Interface	

Door Features

- Door Hold Operation (non-fire operation)
 - Switch Button (default hold time = 120 seconds)
- Infrared detector unit/photo eye
 - Cut-out switch in COP
- Nudging Output†
 - Buzzer only (doors remain open)
 - Reduced closing torque & buzzer
 - Nudging with stuck photo eye

† Buzzers/Lights must be 24VDC

Fixtures

- Auxiliary Car Station**
 - Discrete wiring to main COP board.
 - Provide additional serial COP board.

Call Registration

- Serial Car Call (standard)
- Serial Hall Call (standard)

Lanterns & Gongs/Chimes

- Car Lanterns†
 - Discrete Serial 3-wire
- Hall Lanterns† (Only Serial 3-wire supported)
- Passing Floor Gong†
 - Passing Floor Gong Enable ("S") Button Interface

† Buzzers/Lights must be 24VDC

Indicators†

- Call Registration Buzzer
- Door Hold Light
- Egress Floor Gong
- In-Service Light
- Security Light

† Buzzers/Lights must be 24VDC

Serial Fixture Driver Format (Built into CPU board in controller)

- CE Electronics 3-Wire Micro Comm
- E-Motive 3-Wire Driver

Serial Fixture Pre-Wire

Ship Serial Boards to fixture manufacture for pre-wire:

Contact Person: _____

Phone#: (____) ____ - ____

- | | | |
|---|----------------------------------|--------------------------------|
| <input type="checkbox"/> C.E. Electronics | <input type="checkbox"/> EPCO | <input type="checkbox"/> Dupar |
| <input type="checkbox"/> Innovation Industries | <input type="checkbox"/> Monitor | <input type="checkbox"/> Mad |
| <input type="checkbox"/> ERM | <input type="checkbox"/> PTL | |
| <input type="checkbox"/> Elevator Contractor Office | | |
| <input type="checkbox"/> Other | | |

 Which boards to be sent? COP Hall Station Node

 Voice annunciation

- MCE CE 3-wire driver board interface (built into controller)
- Other: _____

Element Traveling Cable

Part Number: 44-03-0048
Maximum length: 200 feet

Overall Diameter: 1.37 inches (34.7 mm).
Cable Net Weight: 946 lbs/1000 ft (1407 kg/km).

Conductors: Stranded bare soft drawn copper.

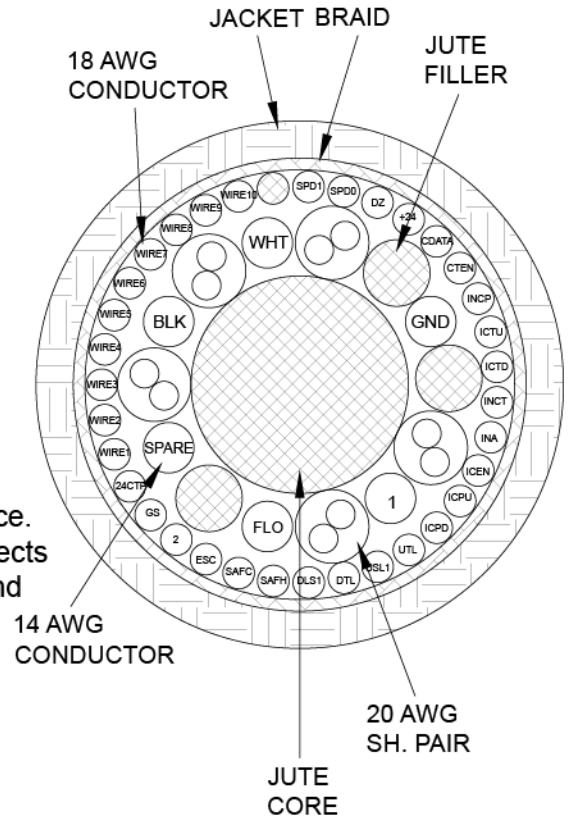
Insulation: 60 degrees C, 300 volt rated.

Shielded Pairs: 2 twisted 20 AWG conductors, copper braid shield, PVC jacket.

Braid: Rayon, 95% coverage of the core.

Jacket: 60 degree C PVC with wear-resistant surface. Retards flame, inhibits oxidation, resists effects of sunlight, water, oil, weathering effects, and most solvents and chemicals.

- 18 AWG Wires:** 34
- 20 AWG Pairs:** 5
- 14 AWG Wires:** 6



18 AWG		20 AWG Pair			14 AWG	
Conductor #	Insul Color	Conductor Color	Conductor Print	Jacket Color	Conductor #	Insul Color
SPD1	Blue	Black/White	CANL1/CANH1	Orange	BLK	Black
SPD0	Blue	Black/White	CANL2/CANH2	Red	WHT	White
DZ	Blue	Black/White	T1/T2	Black	GND	Green
+24	Blue	Black/White	SpareA/SpareB	Tan	1	Orange
CDATA	BLUE	Black/White	SpareC/SpareD	Tan	FLO	Lavender
CTEN	Blue				Spare	Tan
INCP	Blue					
ICTU	Blue					
ICTD	Blue					
INCT	Blue					
INA	Blue					
ICEN	Blue					
ICPU	Blue					
ICPD	Blue					
UTL	Orange					
USL1	Orange					
DTL	Orange					
DLS1	Orange					
SAFH	Orange					
SAFC	Orange					
ESC	Orange					
2	Orange					
GS	Orange					
24CTP	Blue					
Wire1 - 10	Tan					

Caution: Hoistway and traveler cables support general requirements for most installations. The customer is solely responsible for making certain that the wire count and type, cable attributes, and length are sufficient before ordering product.