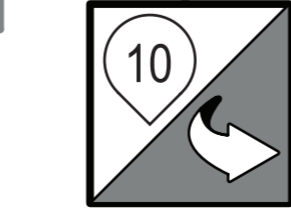
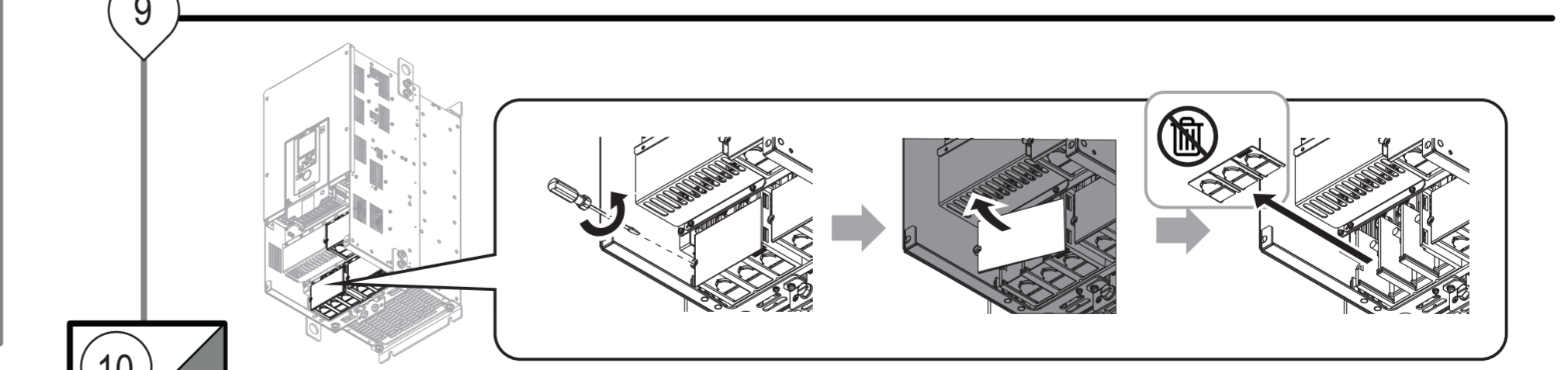
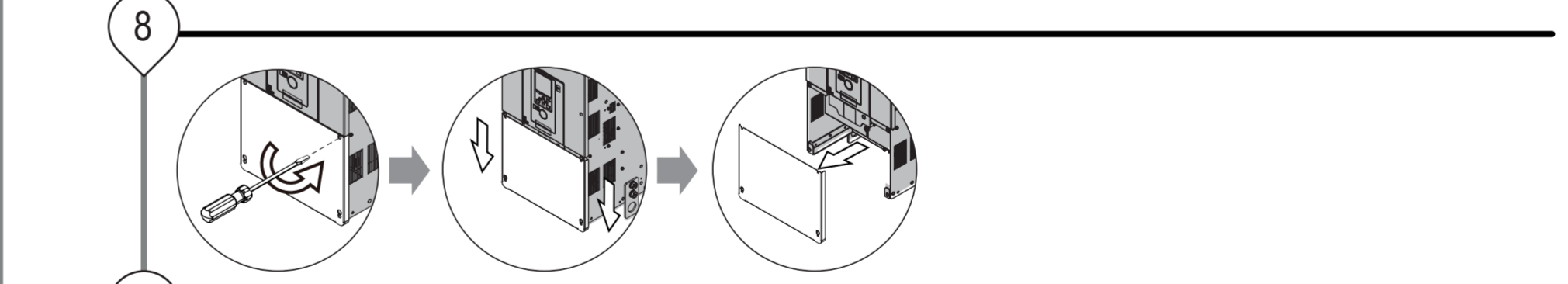
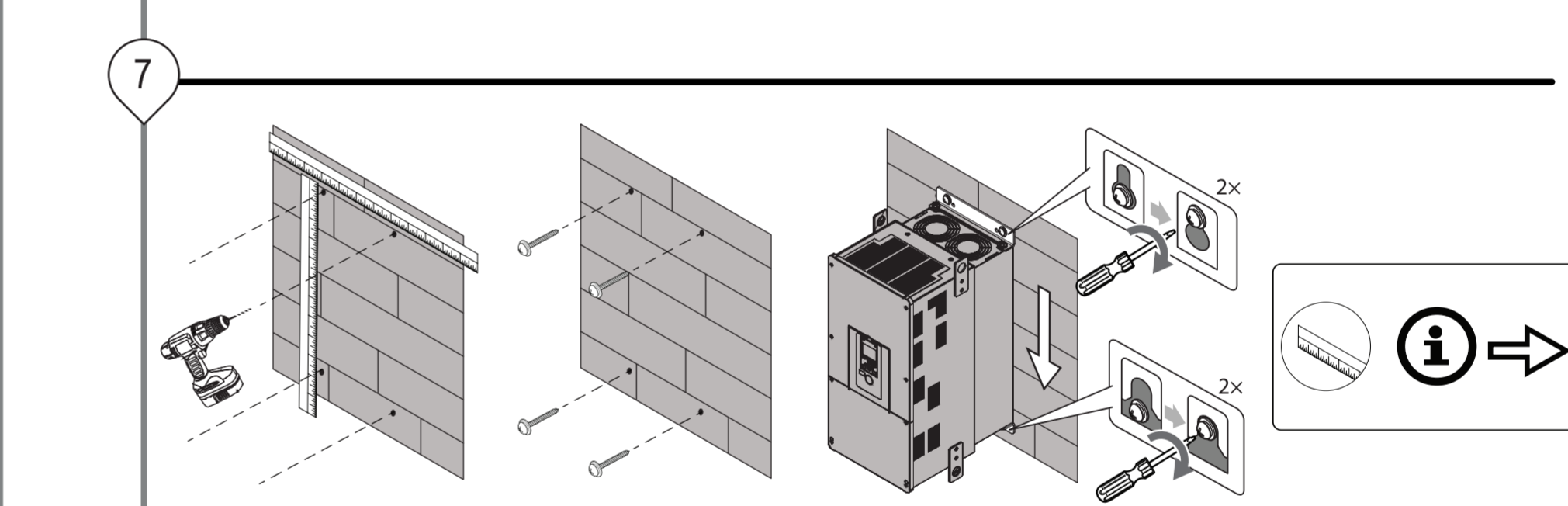
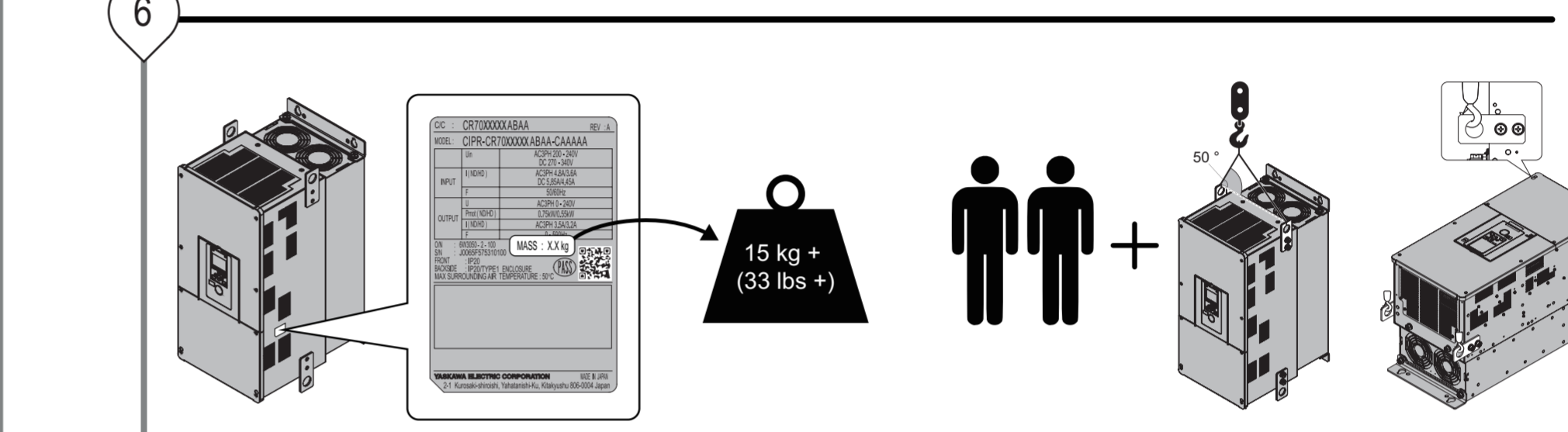
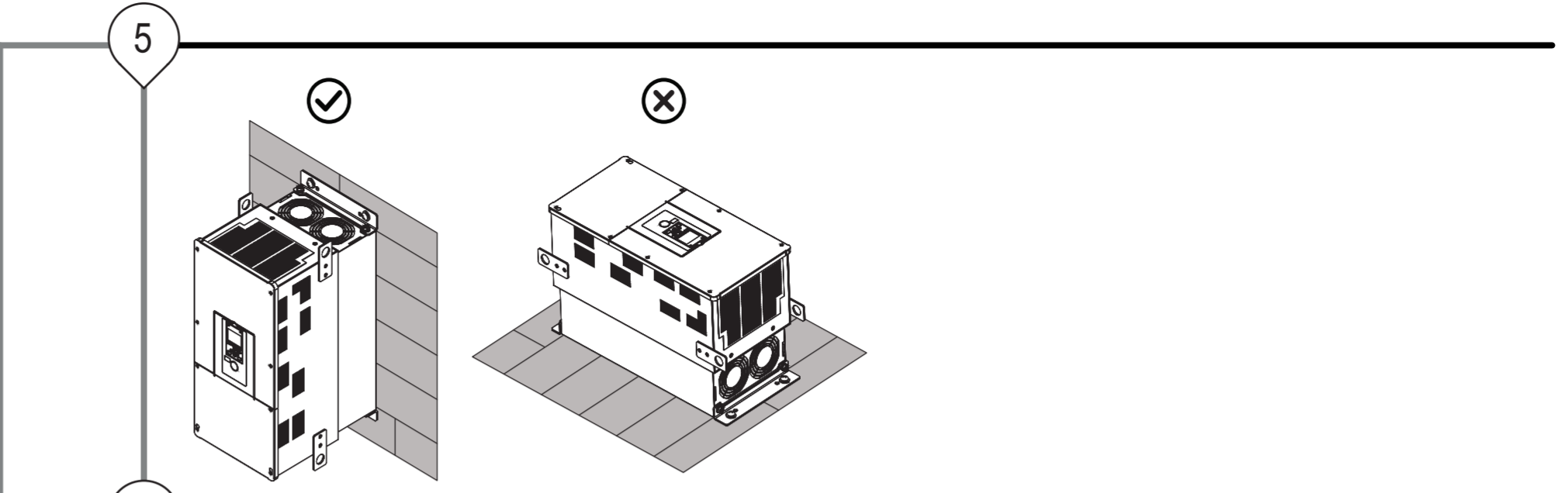
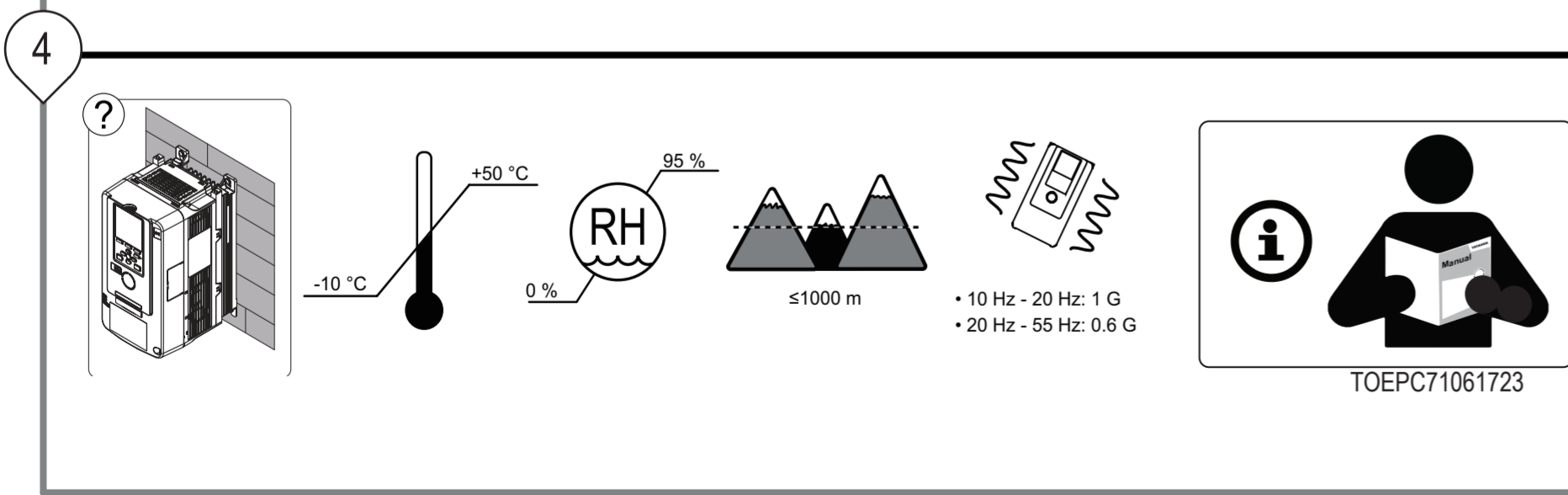
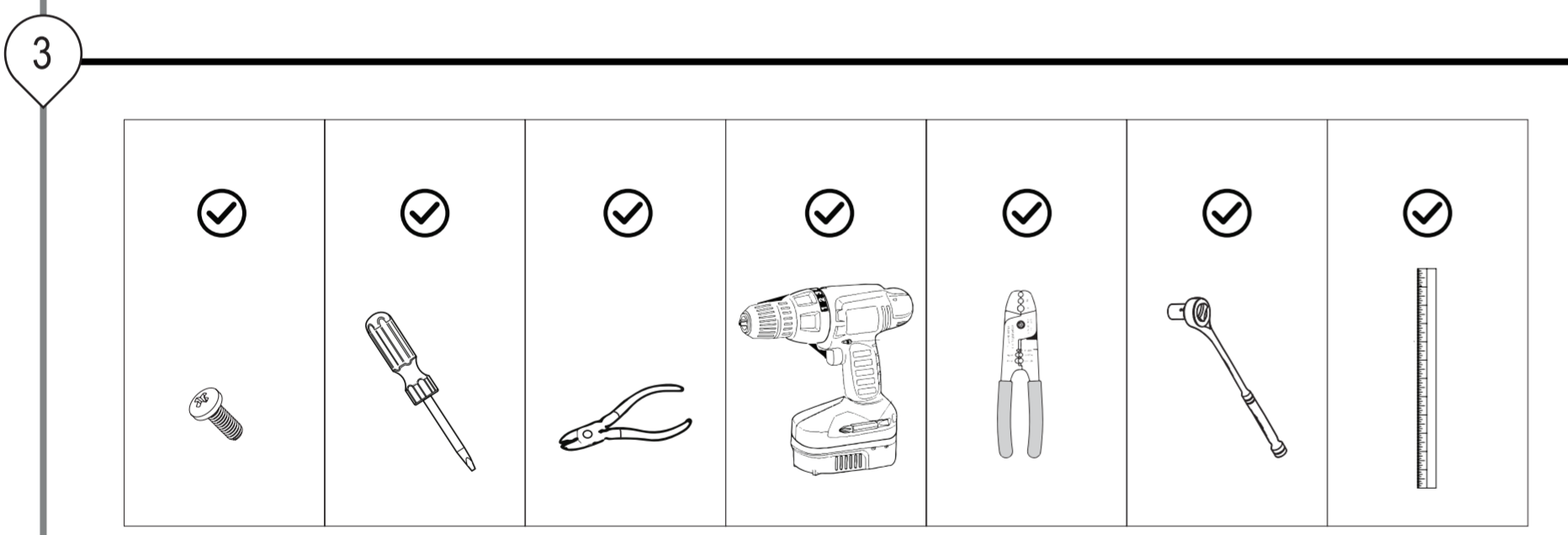
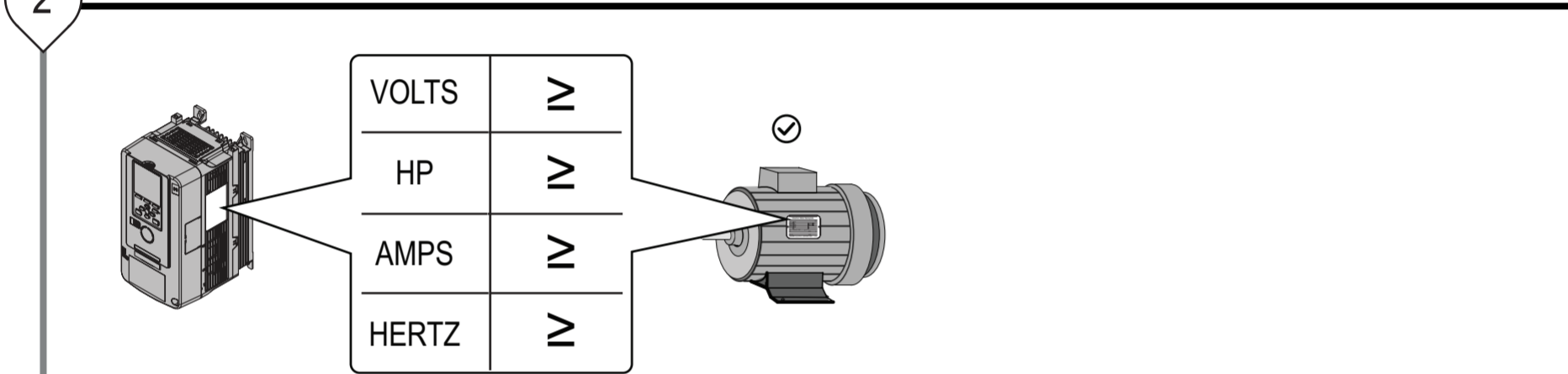
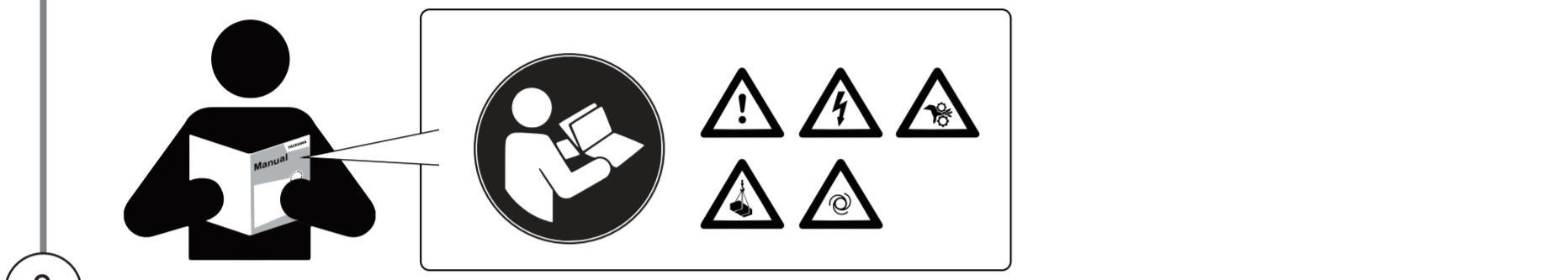
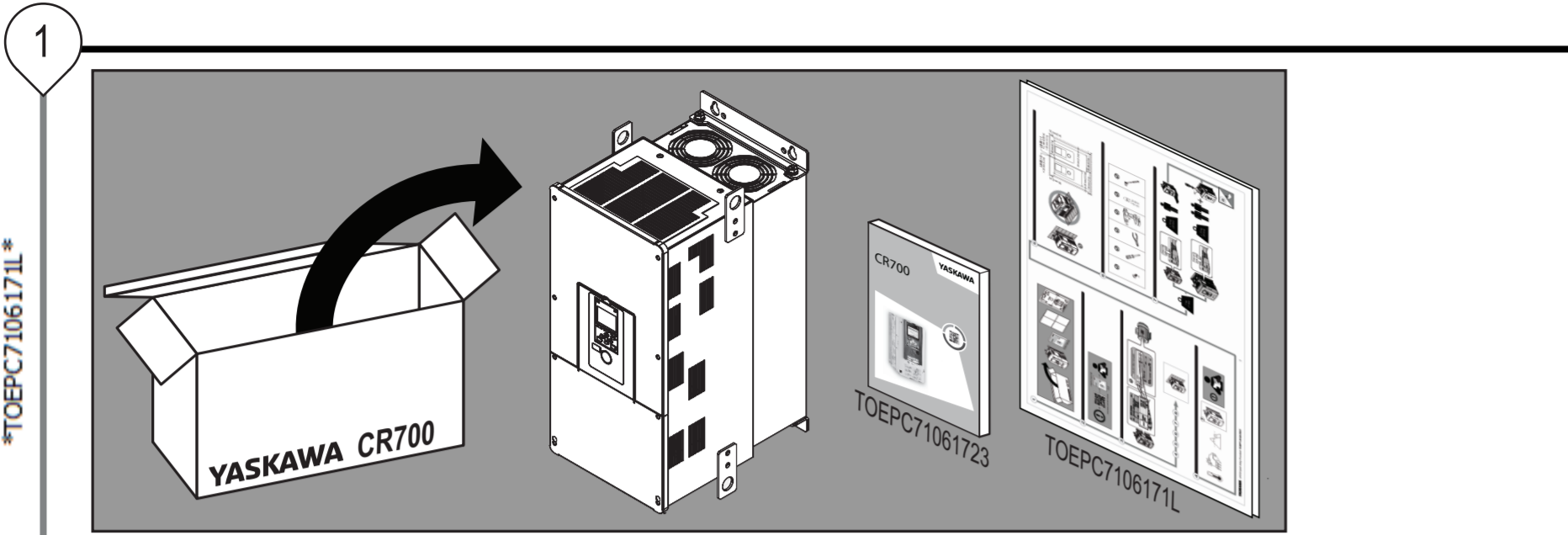
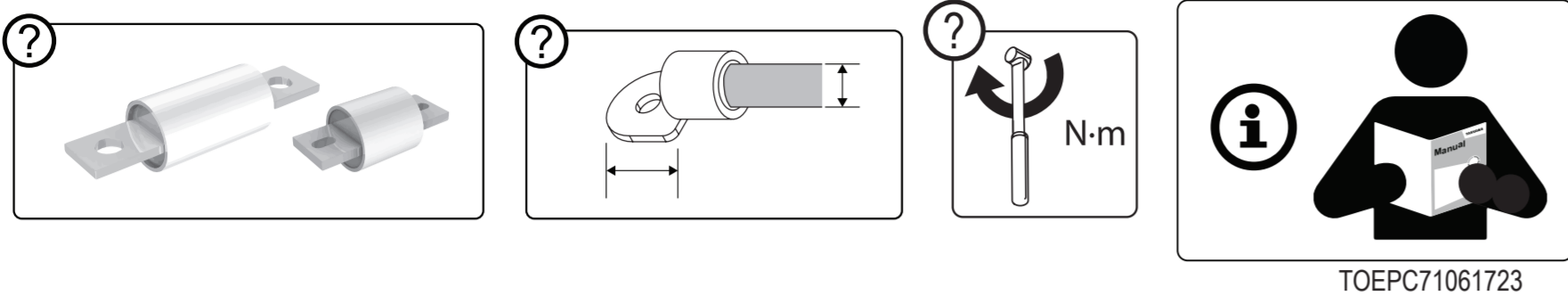


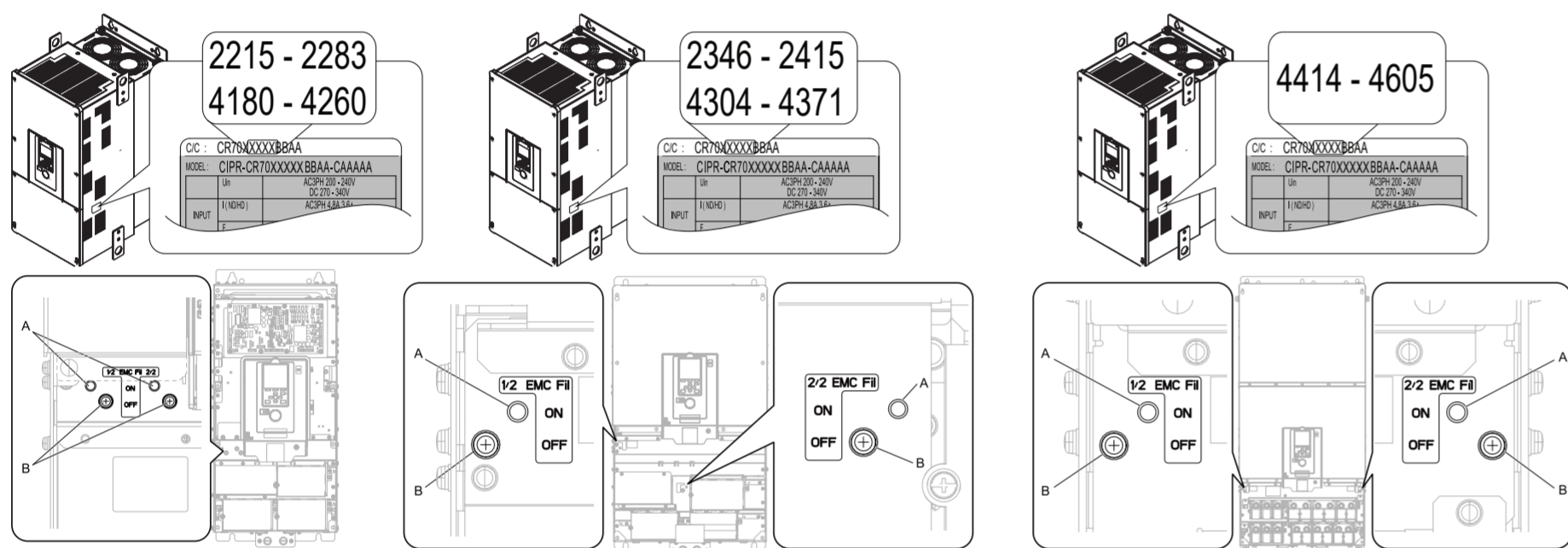
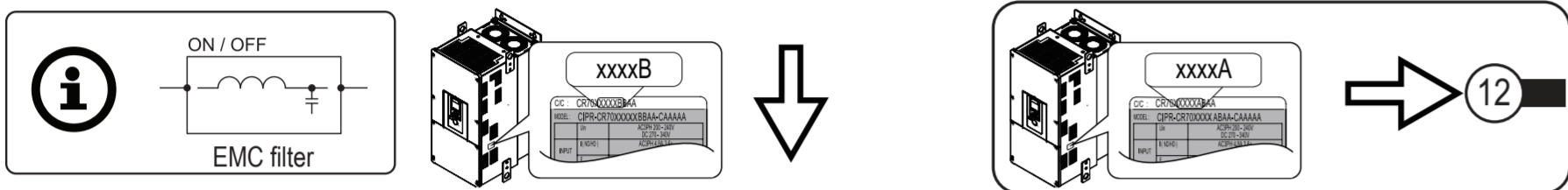
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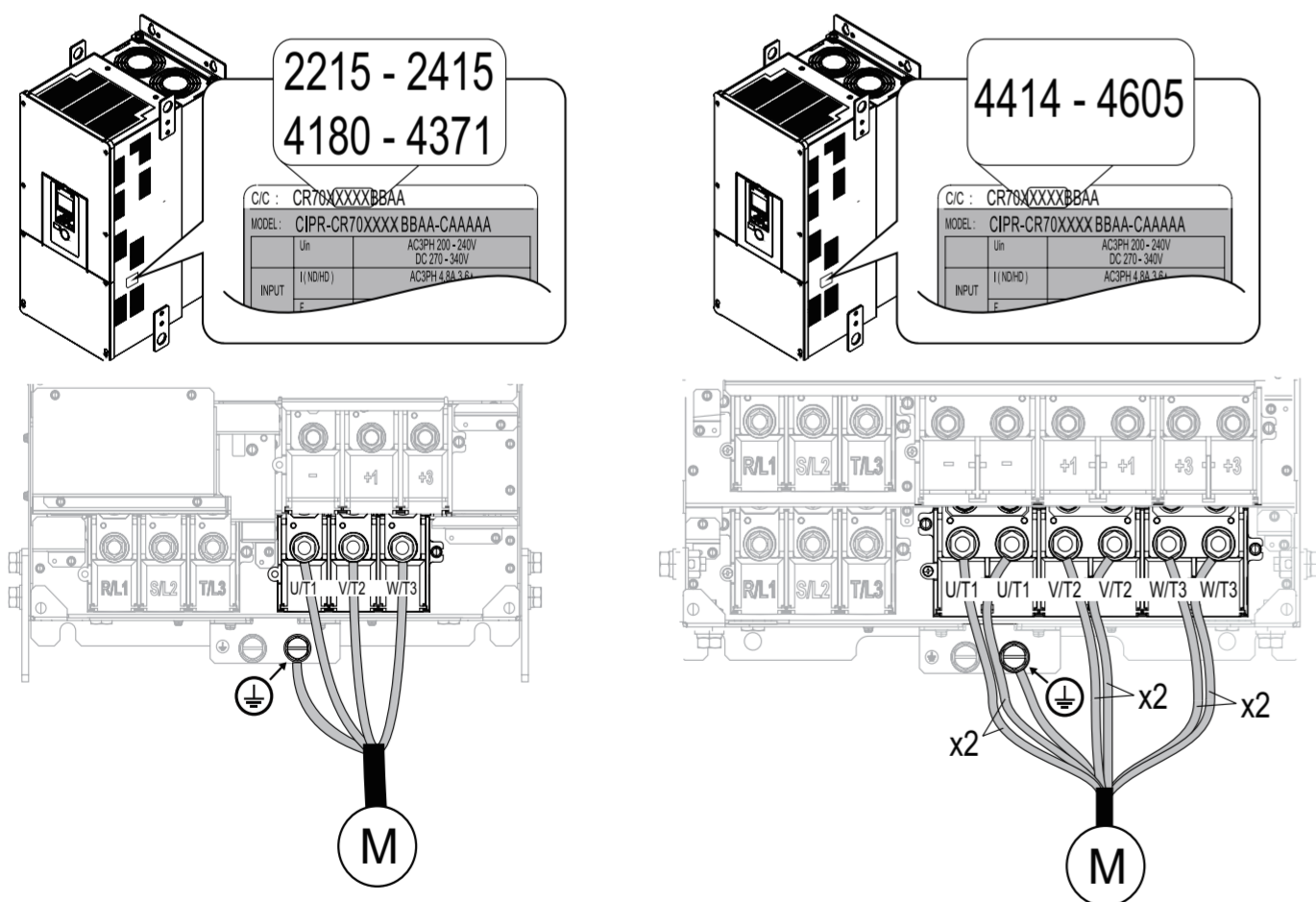
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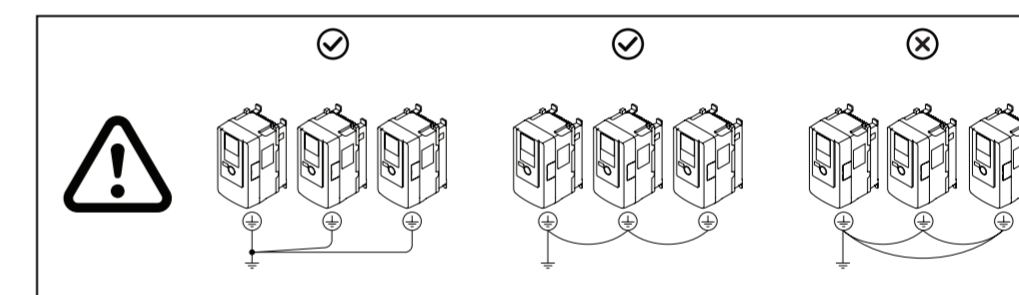
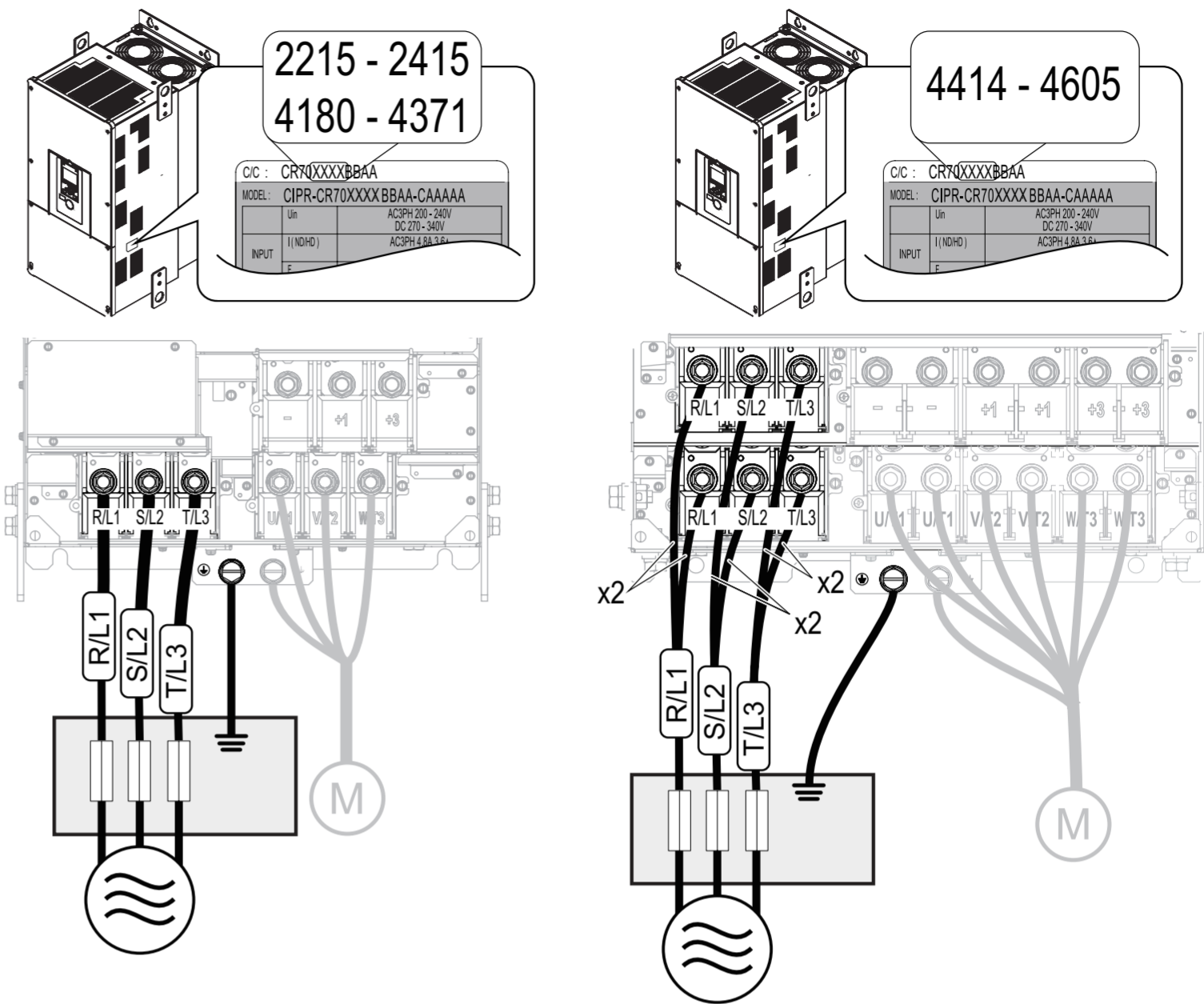
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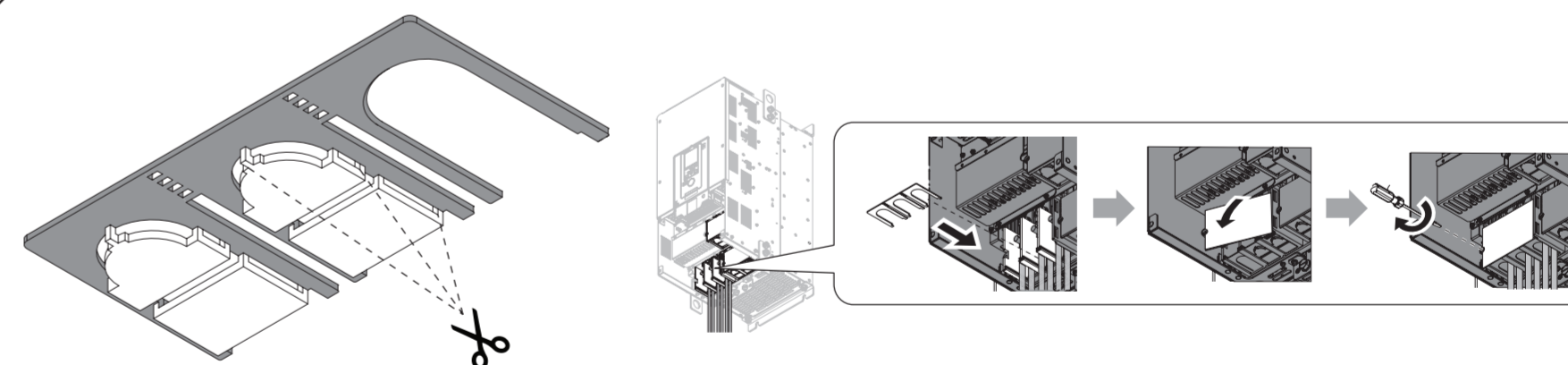
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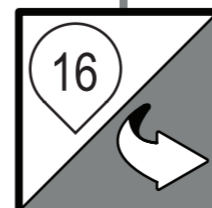
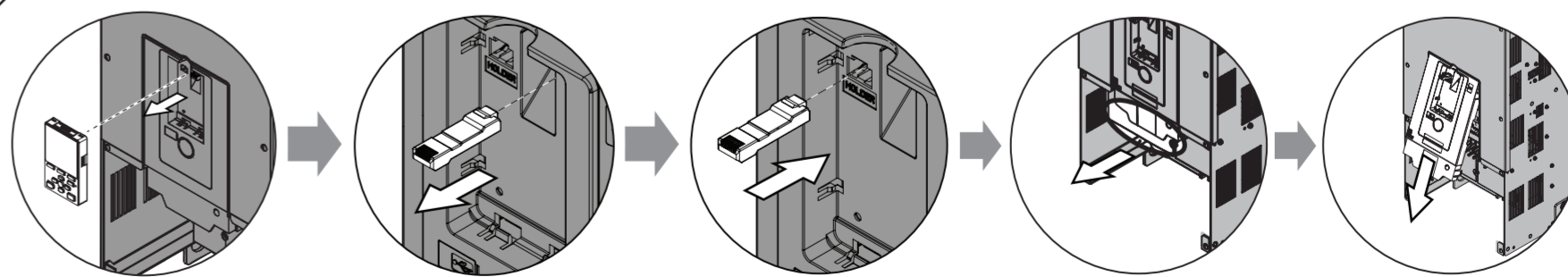
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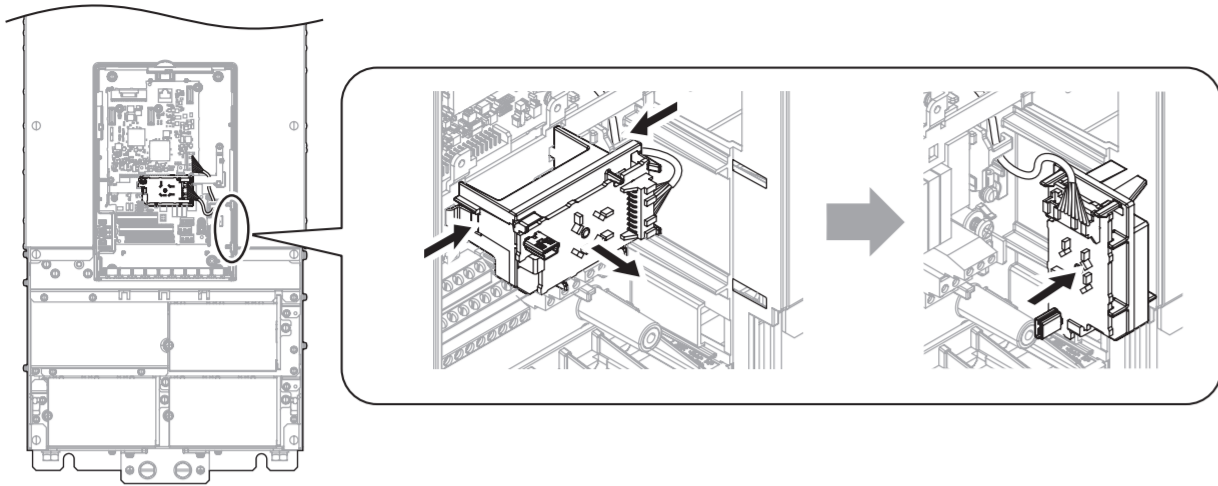
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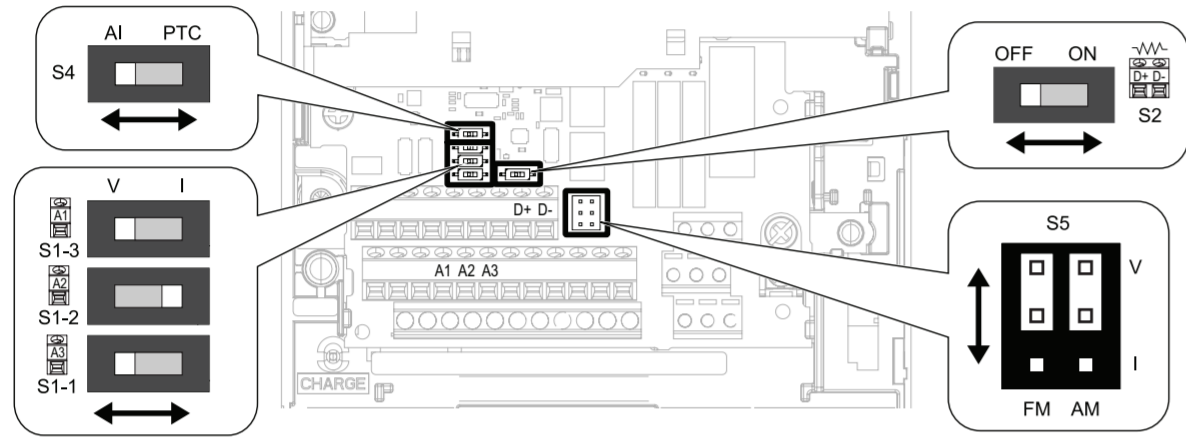
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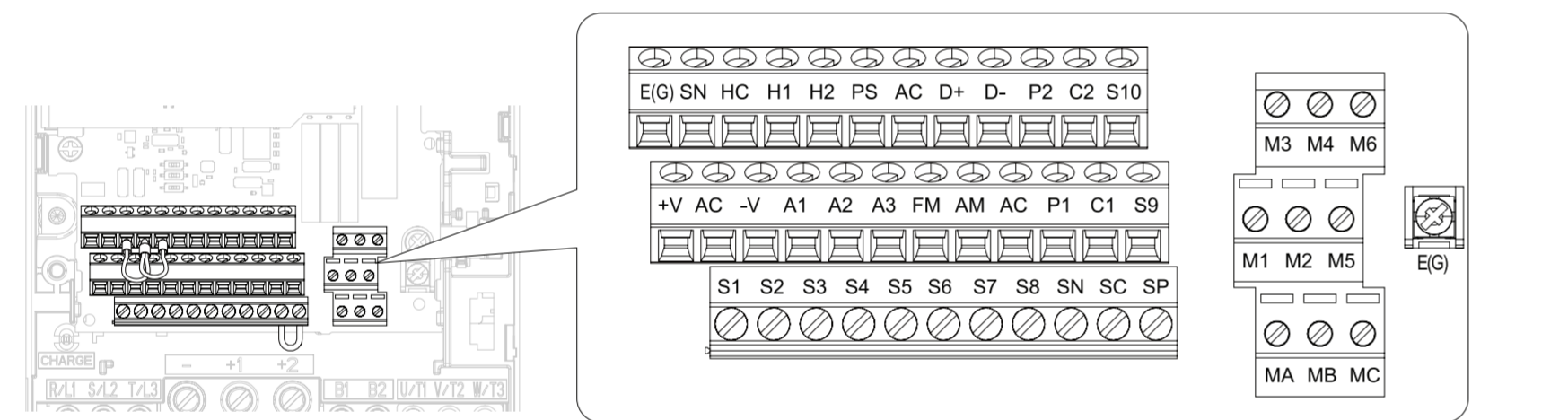
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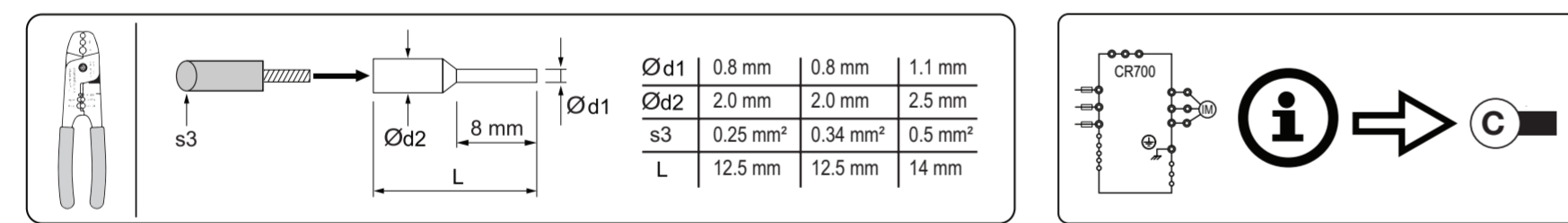
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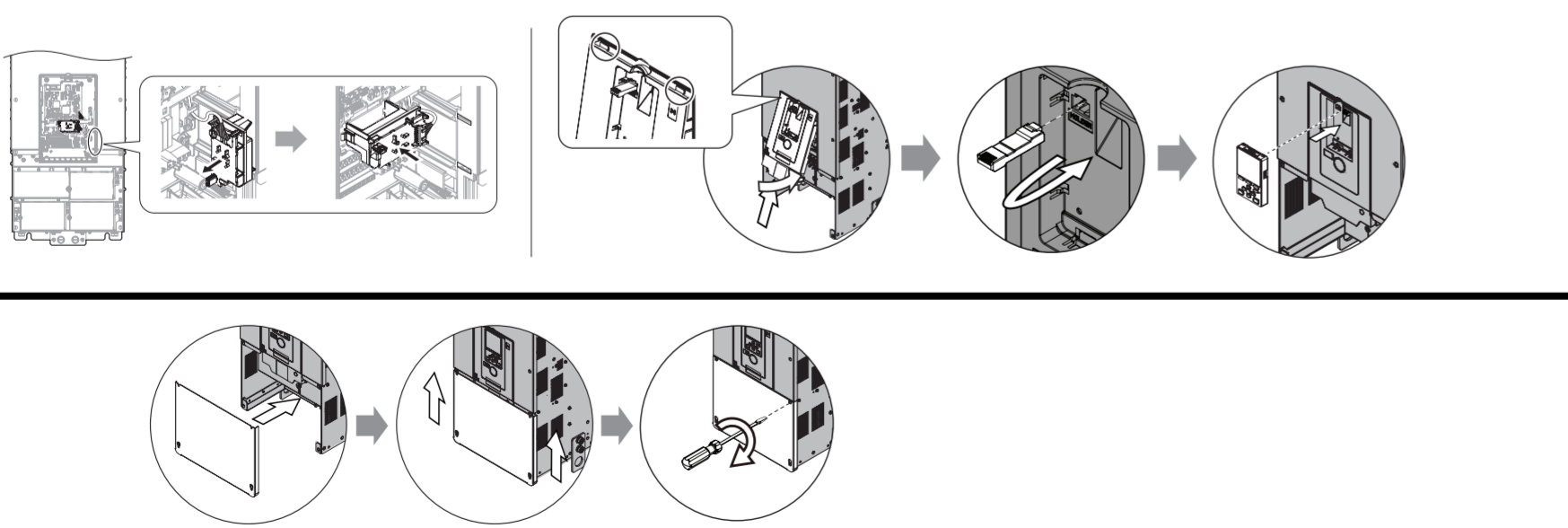
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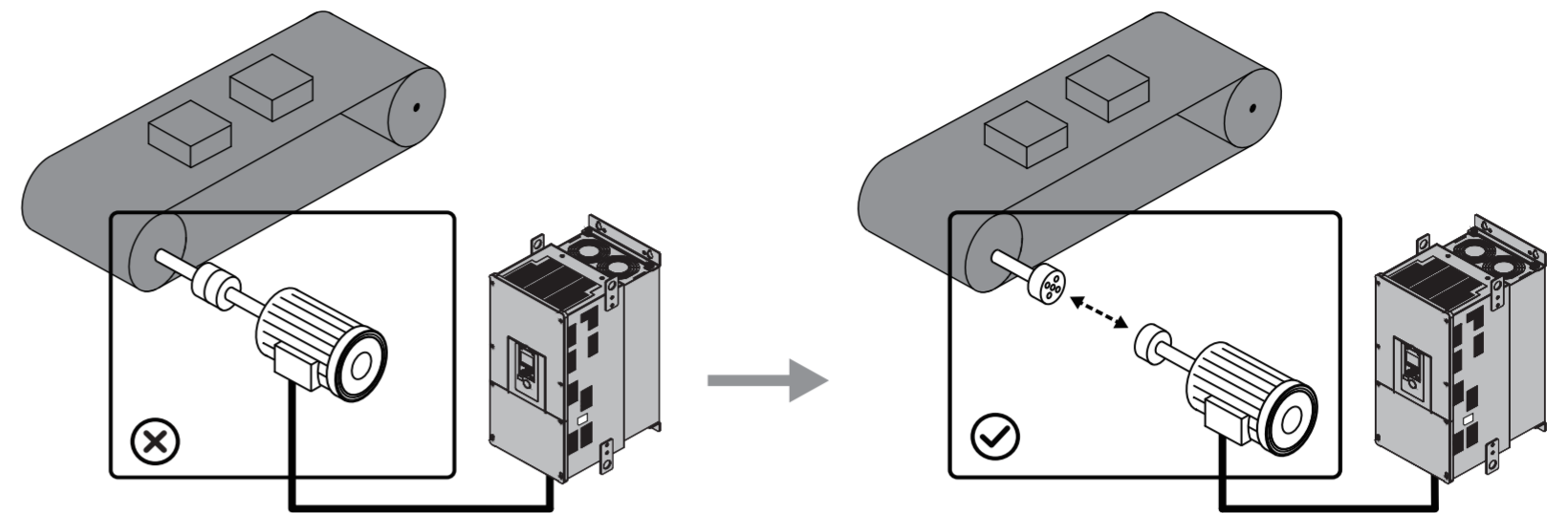
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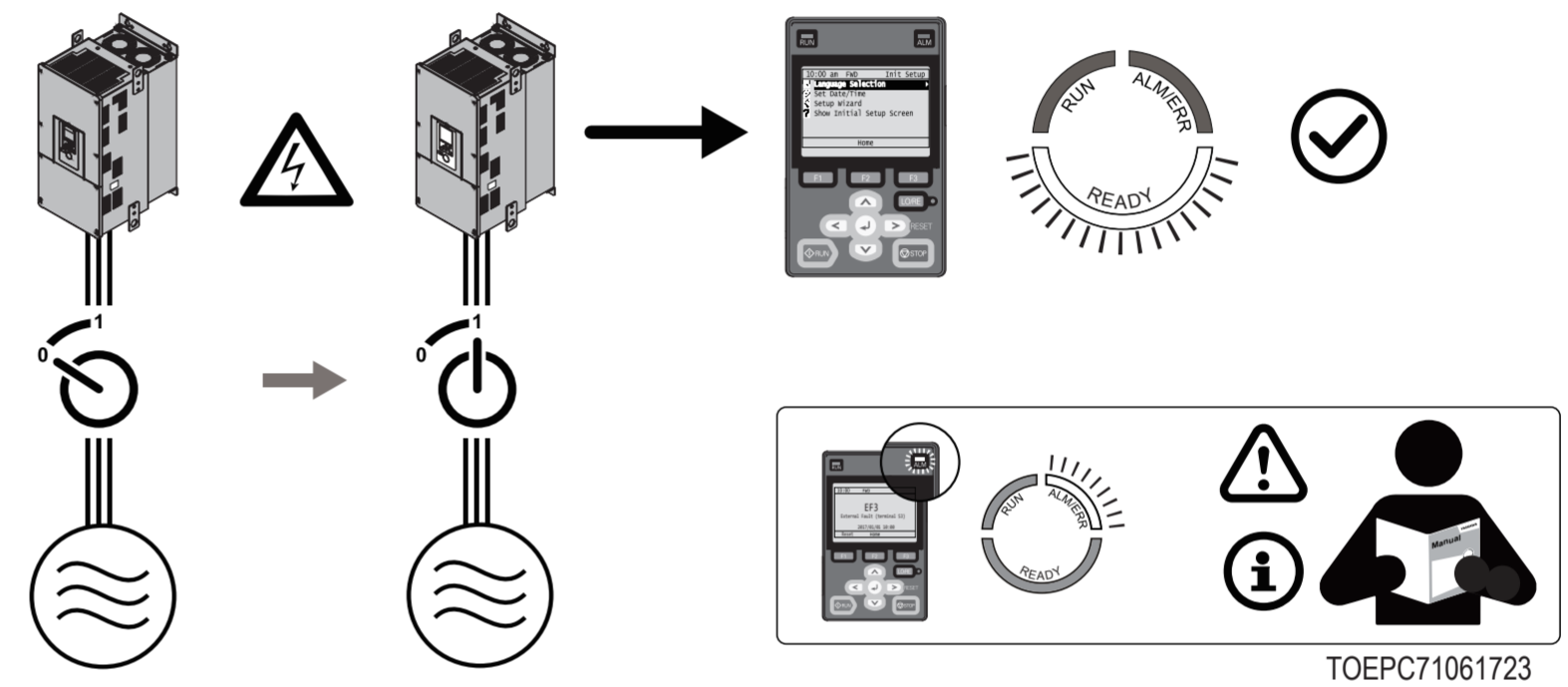
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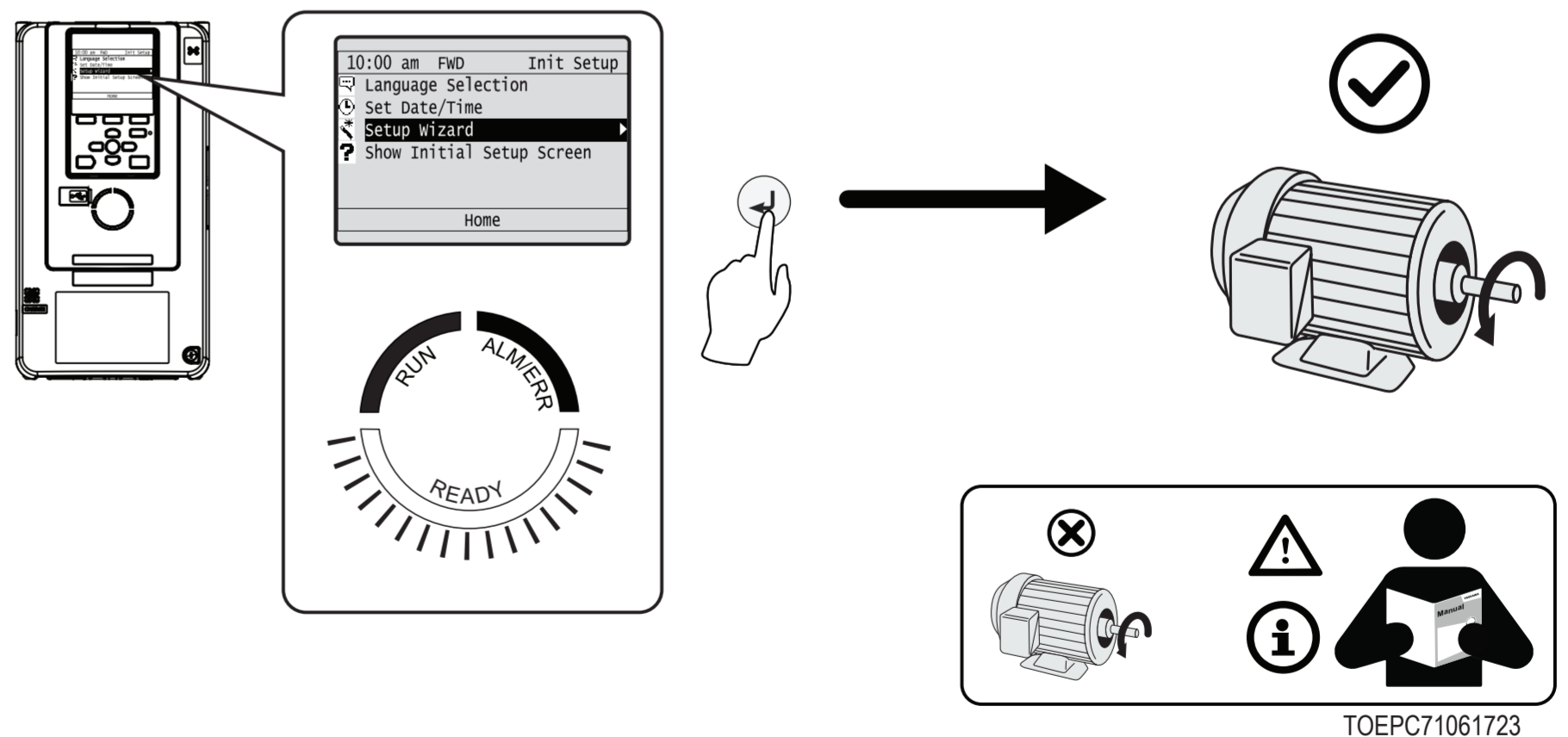
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22



23



A

A: Initialization Parameters	
A1	Initialization
A2	User Parameters
b: Application	
b1	Operation Mode Selection
b2	DC Injection Braking
b4	Timer Function
b7	Droop Control
b9	Zero Servo
C: Tuning	
C1	Accel & Decel Time
C2	S-Curve Characteristics
C3	Slip Compensation
C4	Torque Compensation
C5	Auto Speed Regulator (ASR)
C6	Duty & Carrier Frequency
d: Reference Settings	
d1	Frequency Reference
d2	Reference Limits
d3	Jump Frequency
d4	Frequency Ref Up/Down & Hold
d6	Field Forcing
d7	Offset Frequency

E: Motor Parameters	
E1	V/f Pattern for Motor 1
E2	Motor 1 Parameters
E3	V/f Pattern for Motor 2
E4	Motor 2 Parameters
E7	Motor 3 Parameters
F: Options	
F1	PG Option Setup (Encoder)
F2	Analog Input Option
F3	Digital Input Option
F4	Analog Output Option
F5	Digital Output Option
F6	Communication Options
F7	Ethernet Options
H: Terminal Functions	
H1	Digital Inputs
H2	Digital Outputs
H3	Analog Inputs
H4	Analog Outputs
H5	Modbus Communication
H7	Virtual Inputs/Outputs

L: Protection Functions	
L1	Motor Protection
L2	Power Loss Ride Through
L3	Stall Prevention
L4	Speed Detection
L7	Torque Limit
L8	Hardware Protection
L9	Drive Protection 2
n: Special Adjustment	
n1	Hunting Prevention
n2	Auto Freq Regulator (AFR)
n3	Overexcitation Braking
n4	Adv Open Loop Vector Tune
n5	Feed Forward Control
n6	Online Tuning
o: Keypad-Related Settings	
o1	Keypad Display
o2	Keypad Operation
o3	Copy Keypad Function
o4	Maintenance Monitors
o5	Log Function

S: Crane Parameters	
S1	Brake Sequence
S2	Run Cmd Tuning
S3	Impact Stop
S4	Light-load Acceleration
S5	Overload Detection
S6	Overtorque Detection
T: Motor Tuning	
T0	Tuning Mode Selection
T1	Induction Motor Auto-Tuning
T3	ASR and Inertia Tuning
U: Monitors	
U1	Operation Status Monitors
U2	Fault Trace
U3	Fault History
U4	Maintenance Monitors
U6	Operation Status Monitors

B

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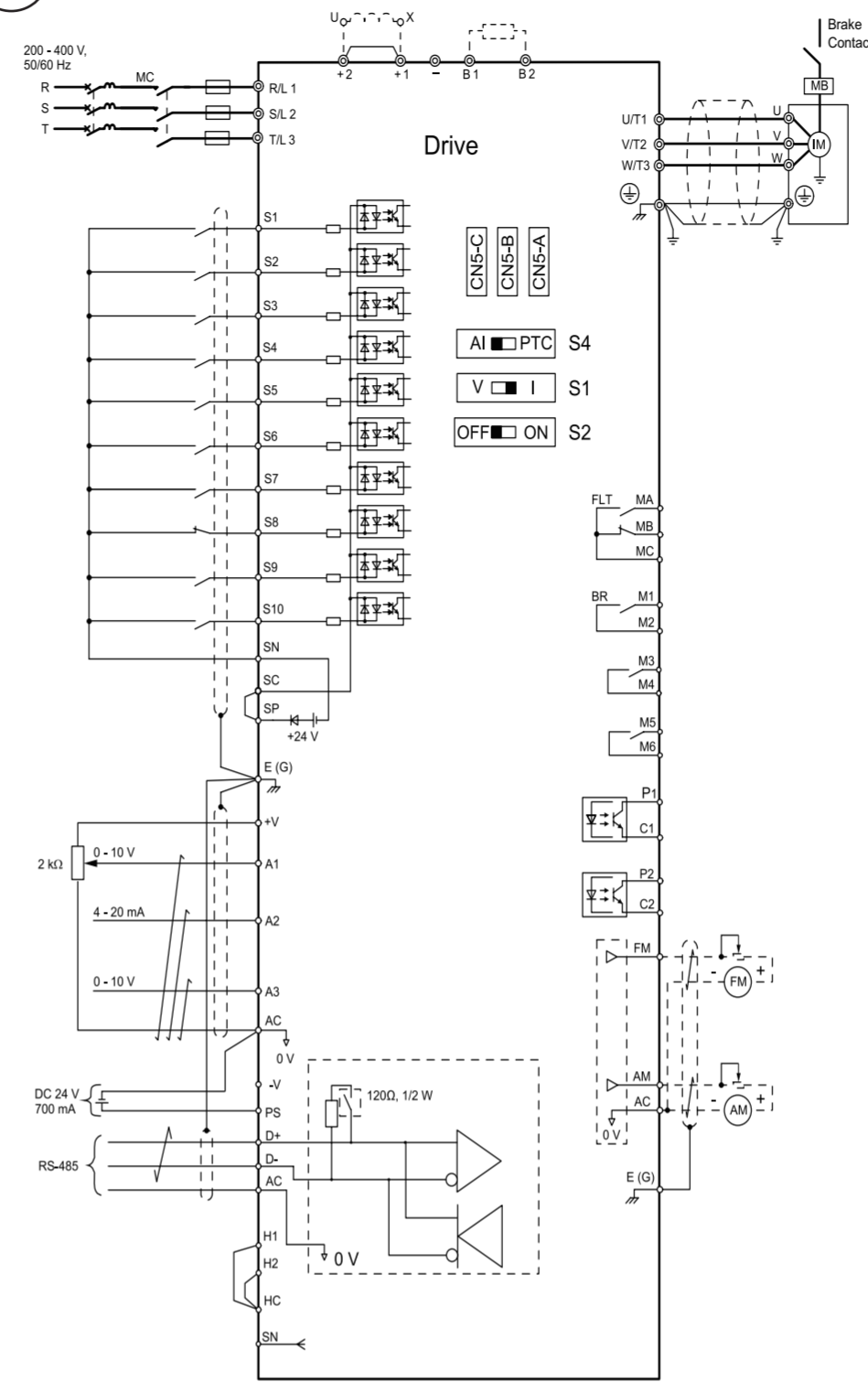
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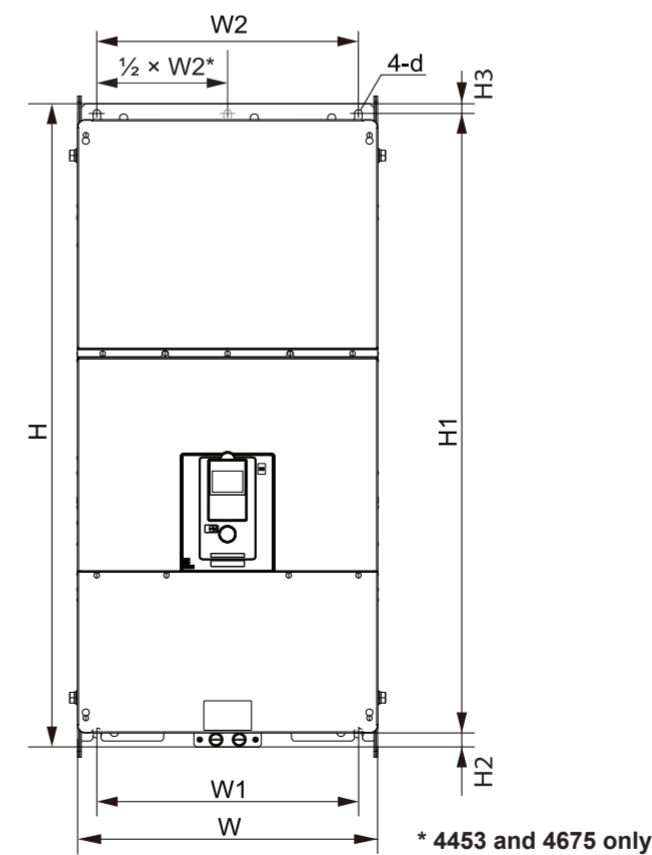
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C



D



Terminal	Type	Signal Level	Default
S1			Forward Run
S2			Reverse Run
S3			External Fault (N.O.)
S4			Fault Reset
S5			Brake Release Check
S6	MFDI Selection 1 to 10	Photocoupler 24 V, 6 mA	Multi-step Speed Reference 1
S7			Multi-step Speed Reference 2
S8			Baseblock Command (N.C.)
S9			Through Mode
S10			Through Mode
SN	MFDI Power Supply 0 V	24 V, 150 mA maximum (for external fuse)	-
SC	MFDI Selection Common	Notice: Do not short circuit terminals SP and SN. Failure to obey will cause damage to the drive.	-
SP	MFDI Power Supply +24 Vdc		-
H1	Safe Disable Input 1	24 V, 6 mA	-
H2	Safe Disable Input 2	Internal impedance: 4.7 kΩ Minimum OFF time: 2 ms	-
HC	Safe Disable Function Common	Note: Remove the jumper between terminals H1-HC and H2-HC when using the Safe Disable input.	-
+V	Power Supply for Frequency Setting	10.5 V (20 mA max.)	-
-V	Power Supply for Frequency Setting	-10.5 V (20 mA max.)	-
A1	MFAI1	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to +10 V/0% to 100% (input impedance: 20 kΩ)	Master Frequency Reference
A2	MFAI2	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to +10 V/0% to 100% (input impedance: 20 kΩ), 4 mA to 20 mA/0% to 100%, 0 mA to 20 mA/0% to 100% (input impedance: 250 Ω)	Combined to Terminal A1
A3	MFAI3/PTC Input	-10 V to +10 V/-100% to 100% (input impedance: 20 kΩ), 0 V to +10 V/100% (input impedance: 20 kΩ)	Auxiliary Frequency Reference
AC	Frequency Reference Common	0 V	-
E(G)	Connecting Shielded Cable	-	-
MA	Multi-Functional Digital Output	30 Vdc, 10 mA to 1 A 250 Vac, 10 mA to 1 A Minimum load: 5 V, 10 mA	Fault
MB	Digital Output Common		Fault
MC	Digital Output Common		-
M1	N.O. Output		Brake Release Command
M2	N.C. Output		
M3	Digital Outputs	30 Vdc, 10 mA to 1 A 250 VAC, 10 mA to 1 A Minimum load: 5 V, 10 mA	During Run
M4	Digital Outputs		Speed Agree 1
M5	Digital Outputs		
M6	Digital Outputs		
P1	Multi-function Photocoupler Output		Drive Ready (READY)
C1	Multi-function Photocoupler Output	48 Vdc, 2 mA to 50 mA	
P2	Multi-function Photocoupler Output		Alarm
C2	Multi-function Photocoupler Output		
FM	Analog Monitor Output 1	0 V to +10 V -10 V to +10 V 4 mA to 20 mA	Output Frequency
AM	Analog Monitor Output 2		Output Current
AC	Monitor Common	0 V	-
PS	External 24 V Power Supply Input	21.6 Vdc to 26.4 Vdc, 700 mA	-
AC	External 24 V Power Supply Ground	0 V	-
D+	Communication Input/Output (+)	MEMOBUS/Modbus, RS-485 115.2 kbps max.	-
D-	Communication Input/Output (-)		-
AC	Communication Shield Ground	0 V	-

Model	mm (in)							
	W	W1	W2	H	H1	H2	H3	d
2215, 2283	312	218	218	700	659	28	13	M10
4208 - 4296	(12.28)	(8.58)	(8.58)	(27.56)	(25.94)	(1.10)	(0.51)	
2346, 2415	440	370	370	800	757	28	15	M12
4304, 4371	(17.32)	(14.57)	(14.57)	(31.50)	(29.80)	(1.10)	(0.59)	
4414 - 4605	510	450	450	1136	1093	25.5	17	M12
	(20.08)	(17.72)	(17.72)	(44.72)	(43.03)	(1.00)	(0.67)	