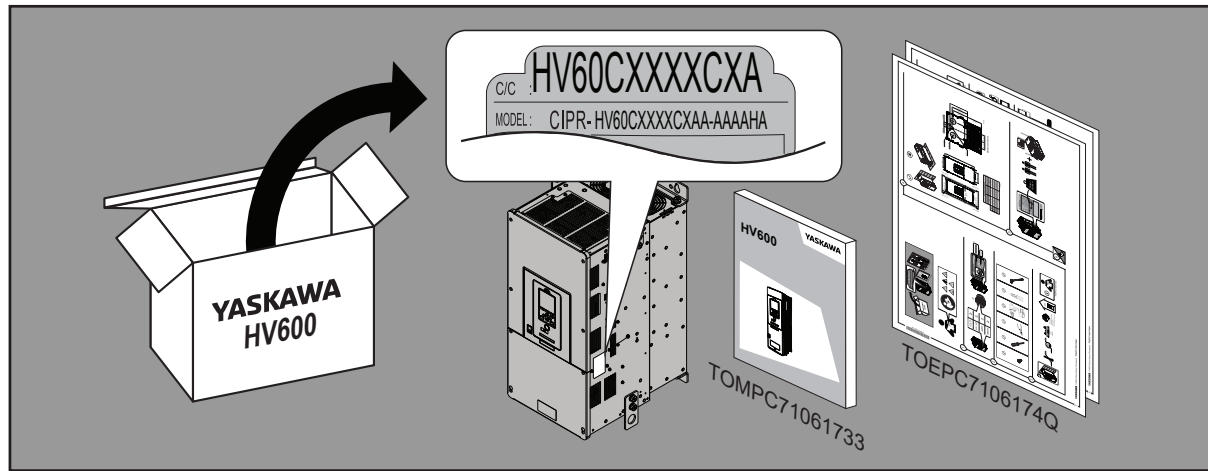
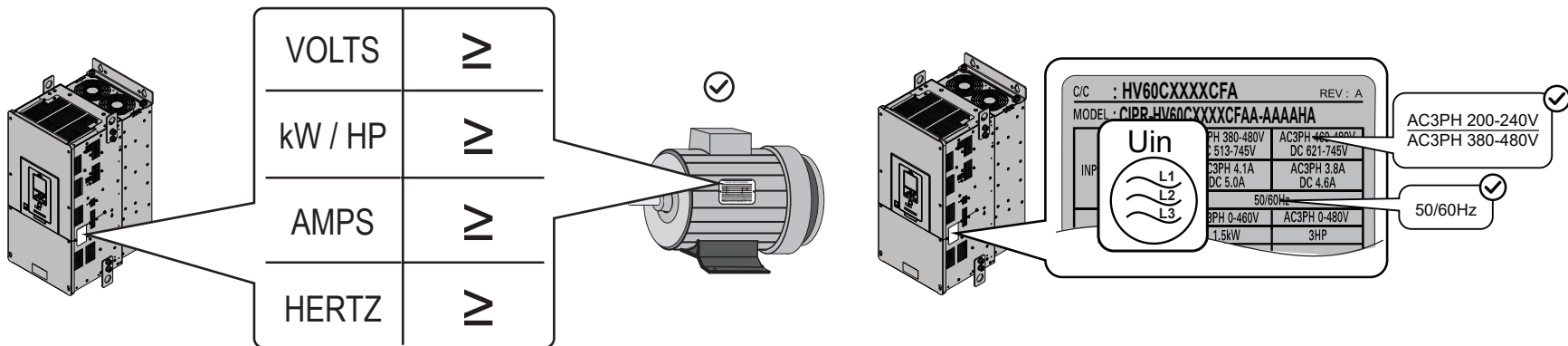
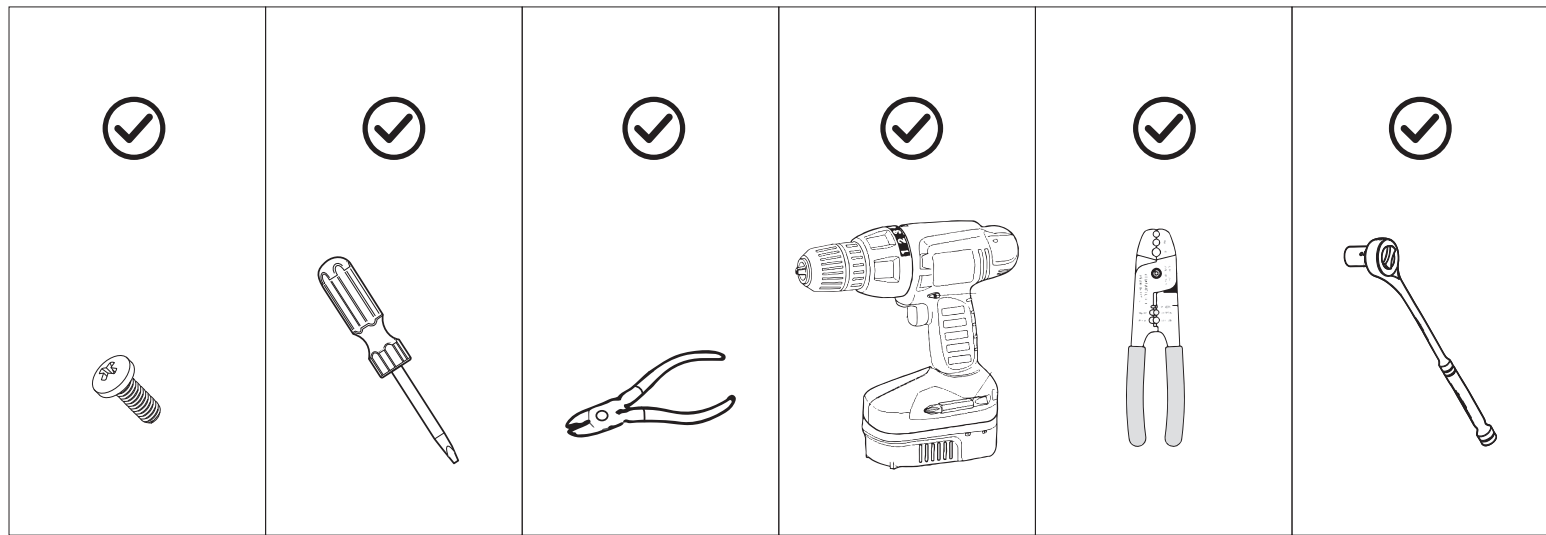




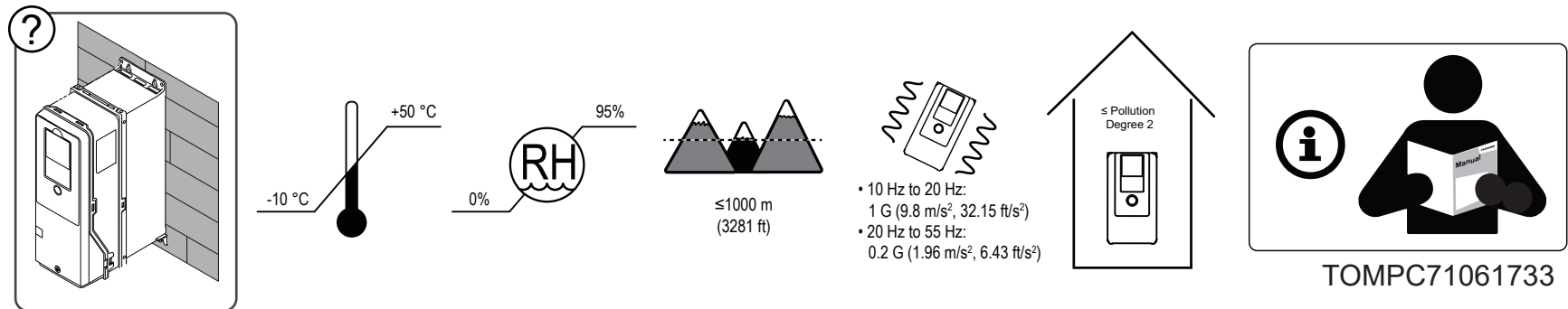
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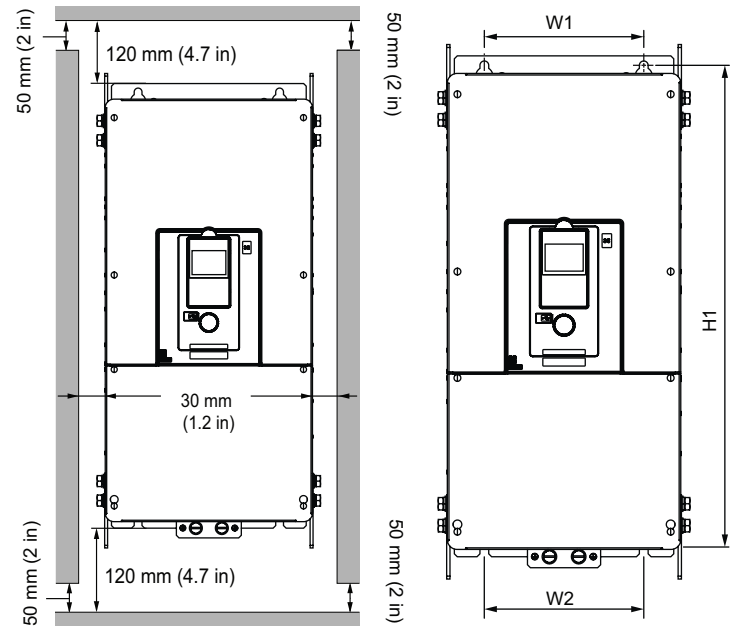
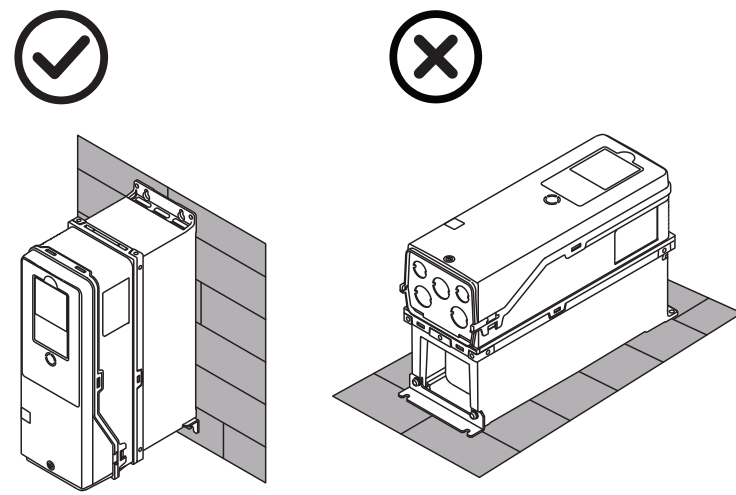
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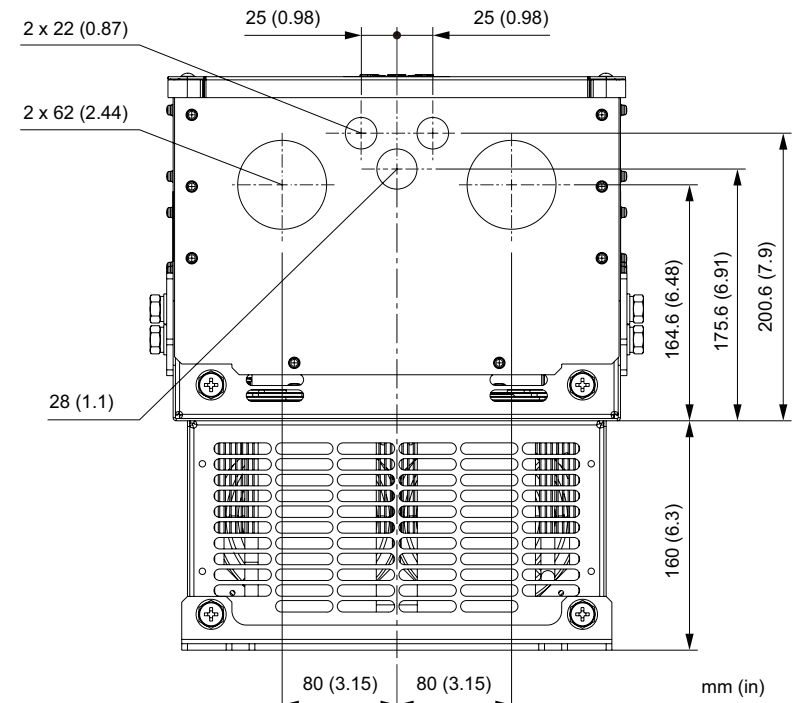
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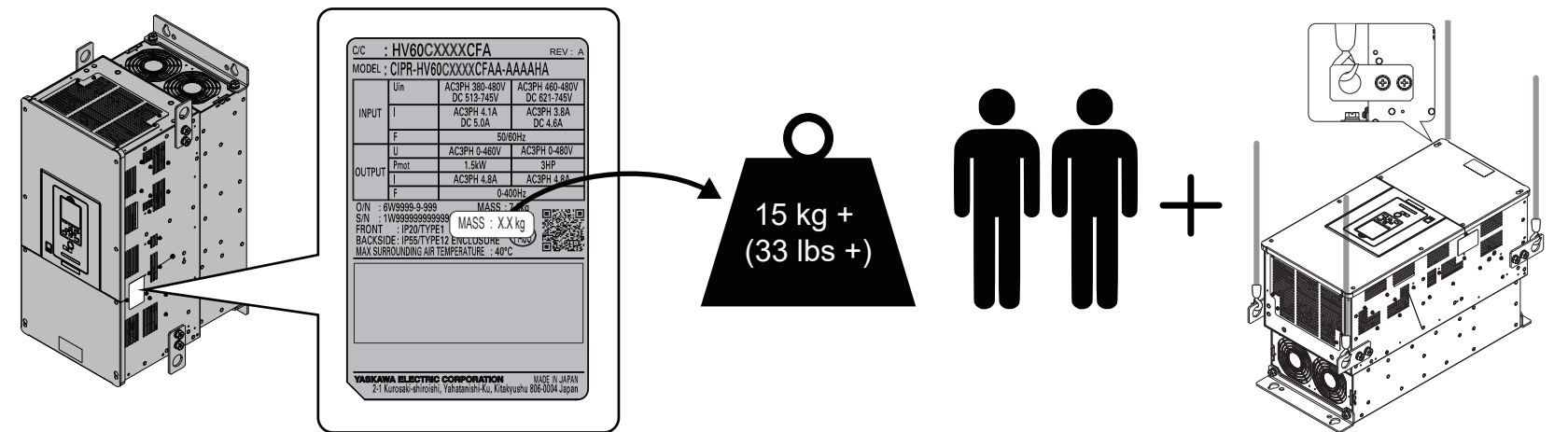


Drive Model [HV60TXXXX]			
	2143, 2169	2211, 2273	-
	4156	4180, 4240	4302
W1	218 (8.58)	218 (8.58)	370 (14.57)
W2	218 (8.58)	218 (8.58)	370 (14.57)
H1	773 (28.86)	659 (25.94)	757 (29.8)
d	M10 (3/8-16)	M10 (3/8-16)	M12 (1/2-13)

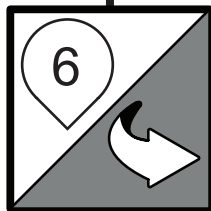


Models 2143, 2169, 4156

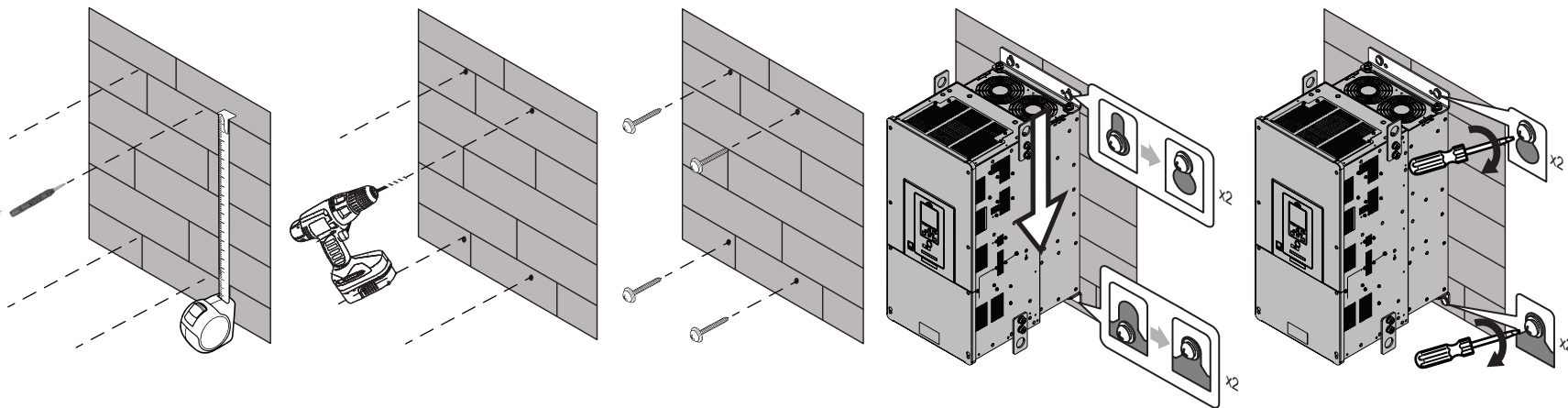
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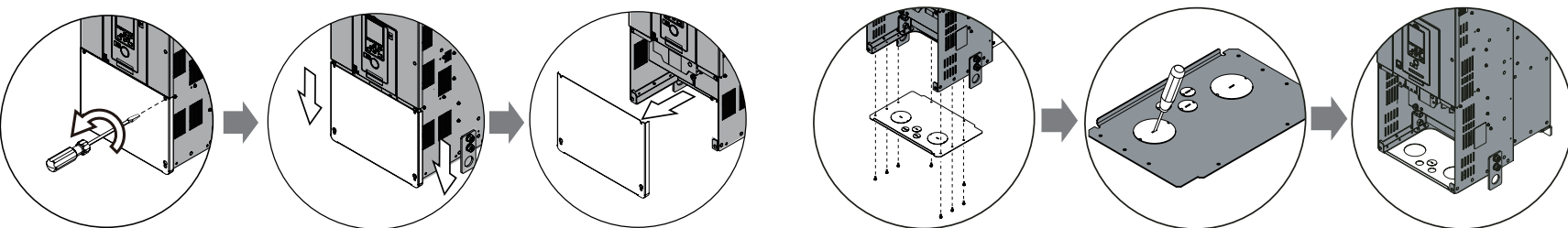
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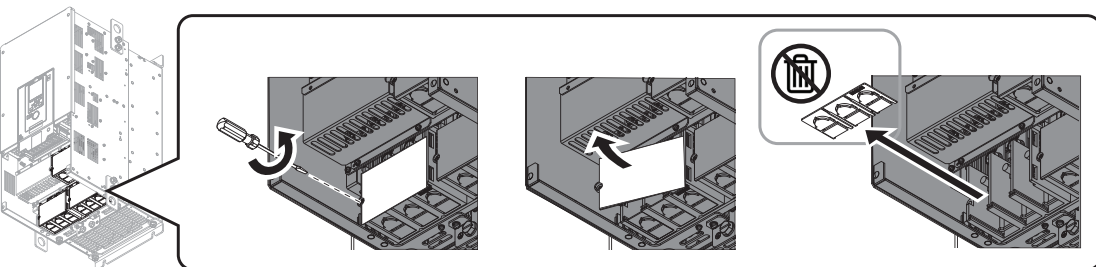
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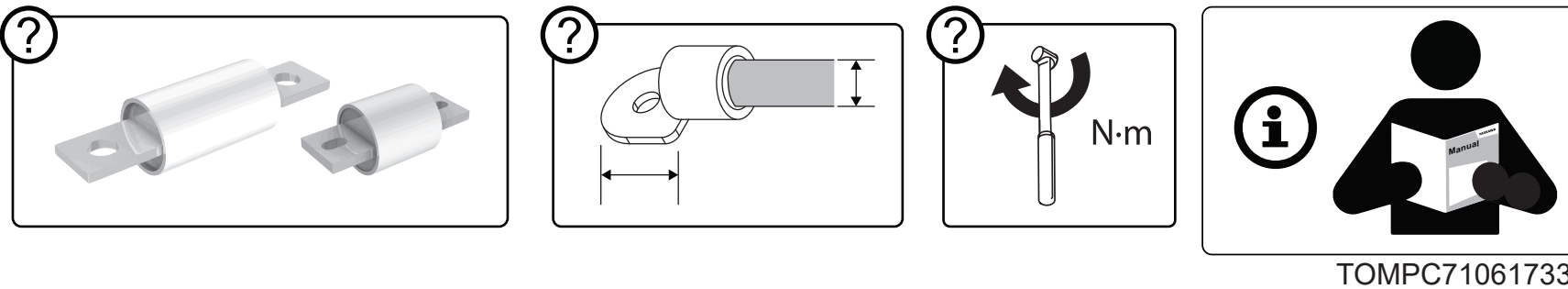
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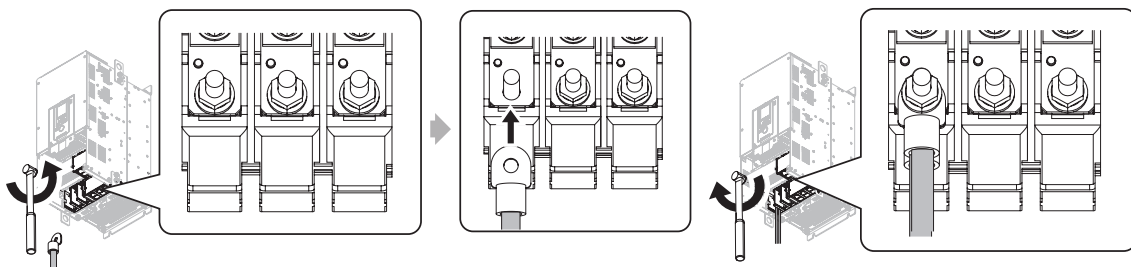
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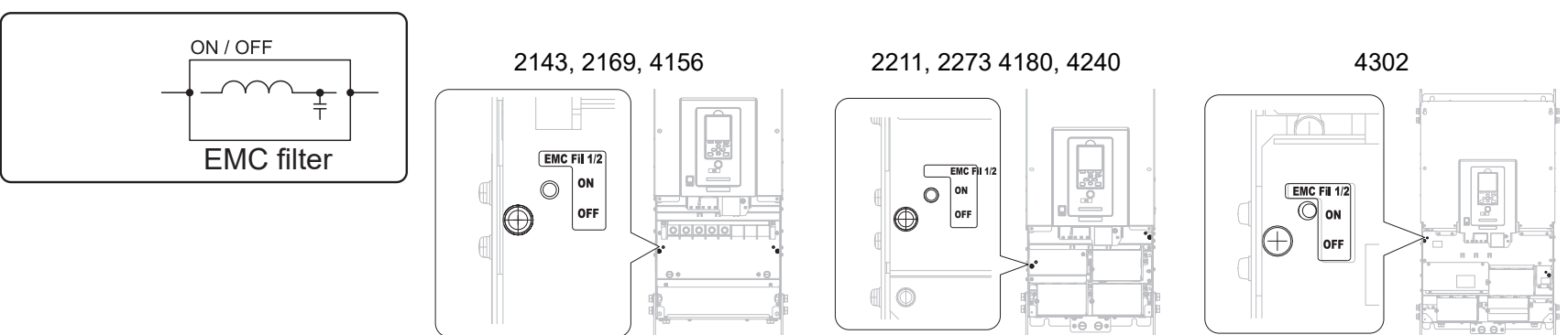
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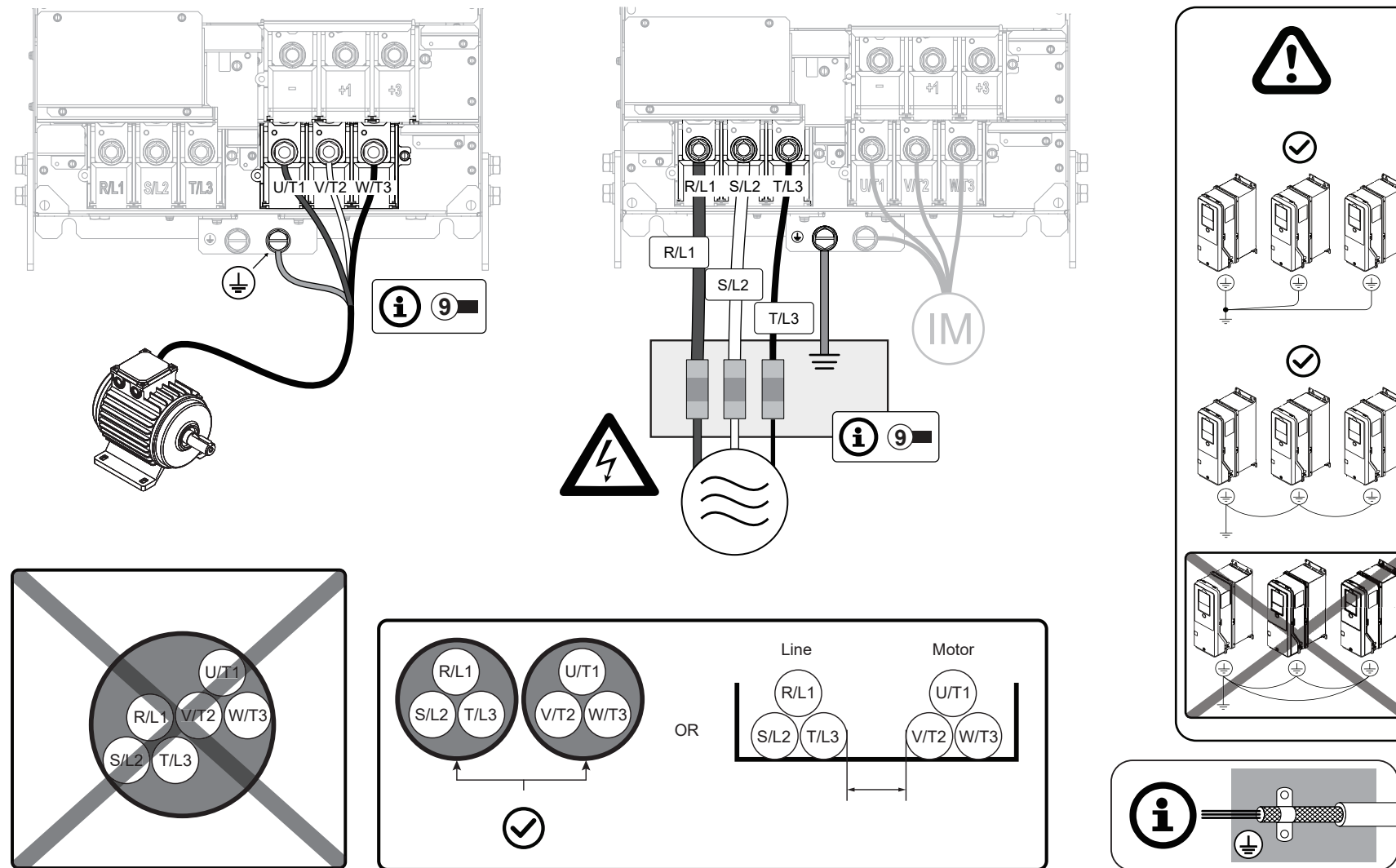
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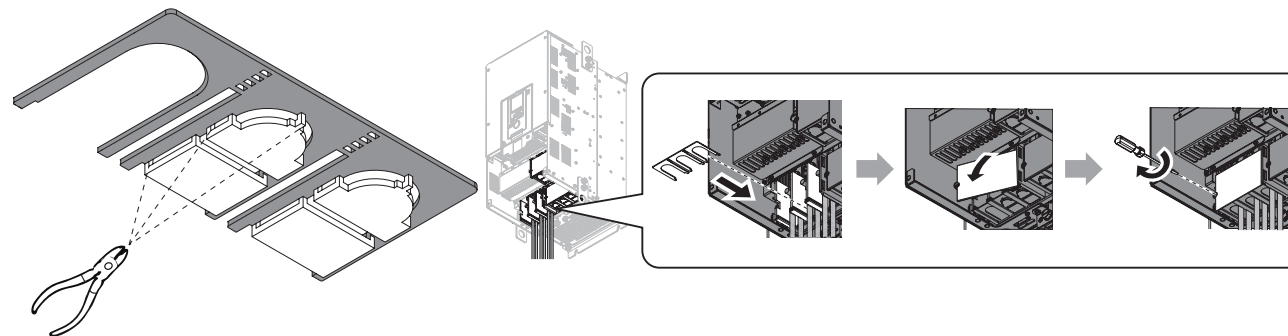
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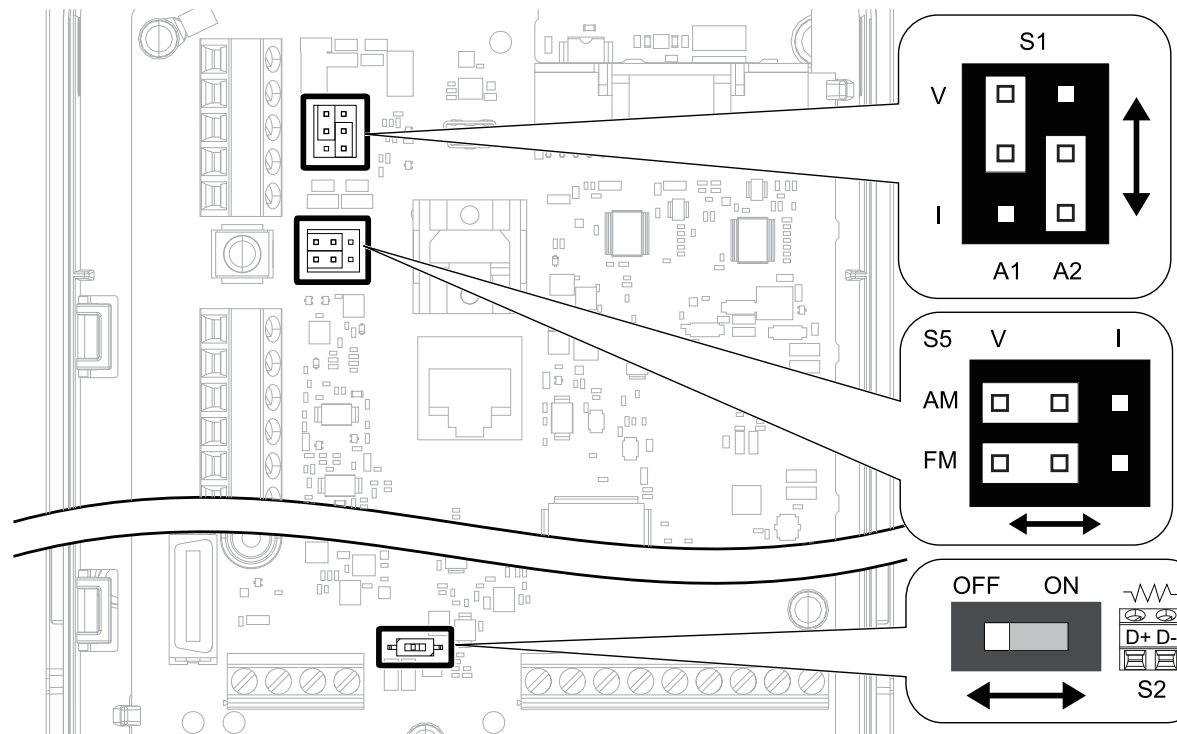
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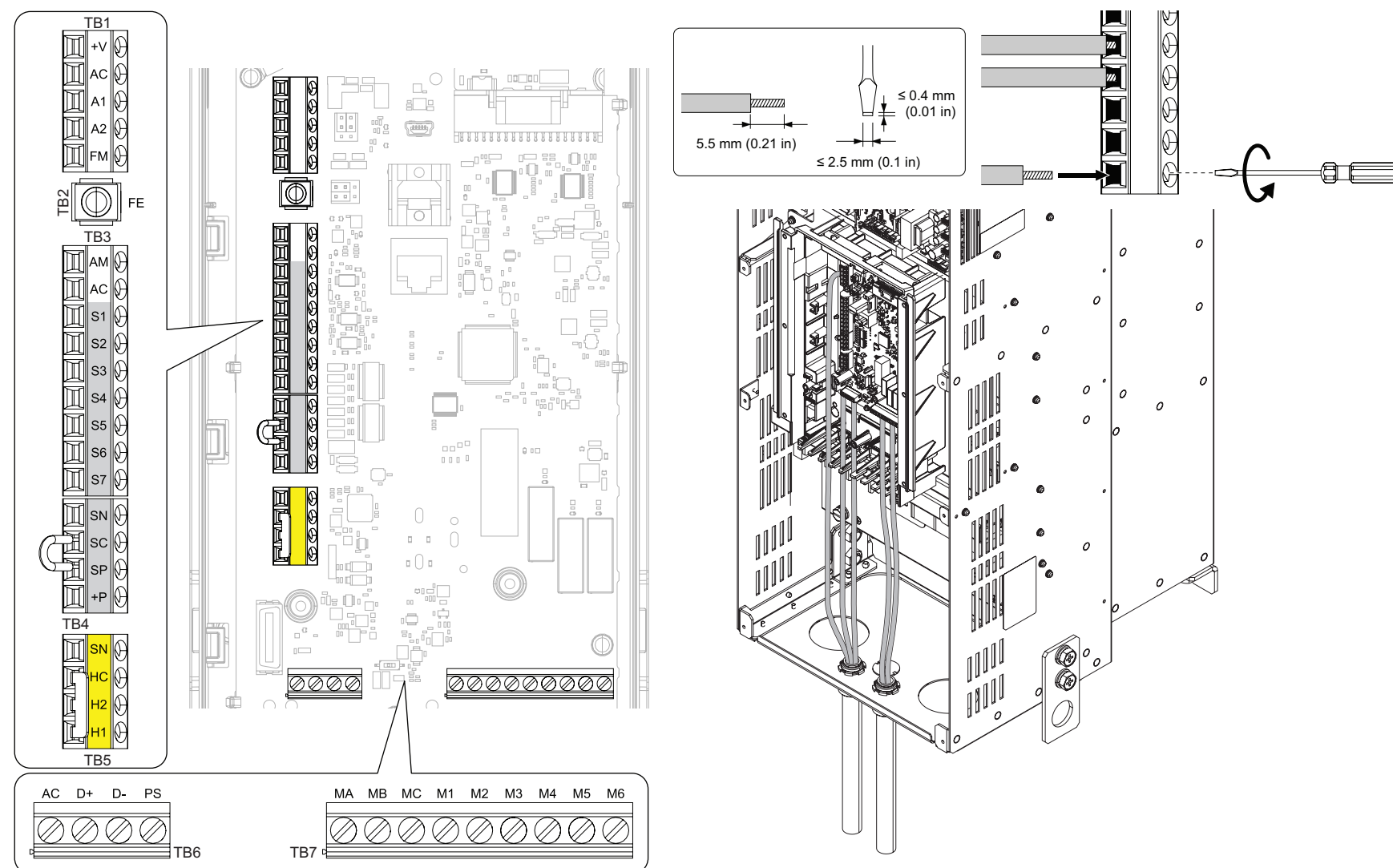
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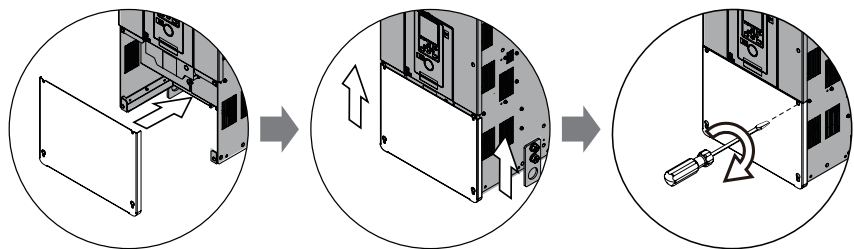
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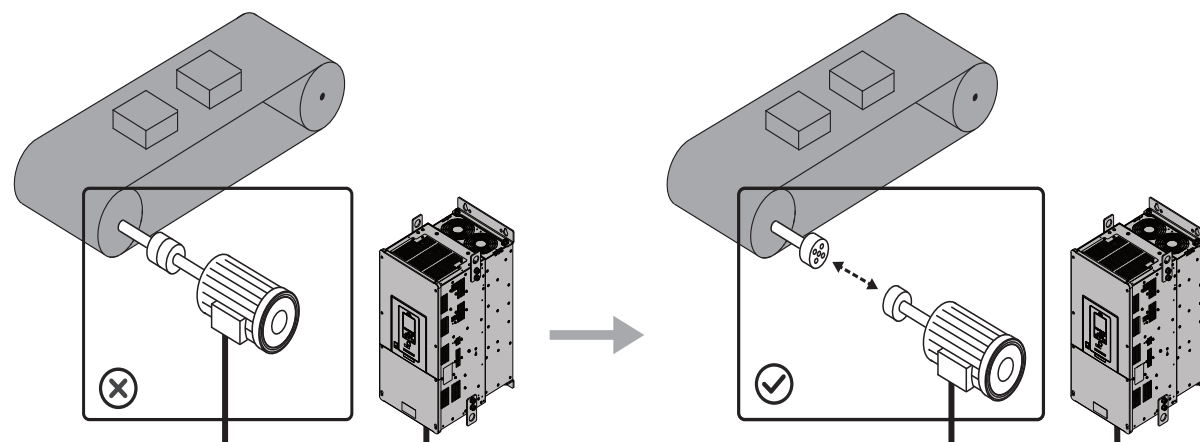
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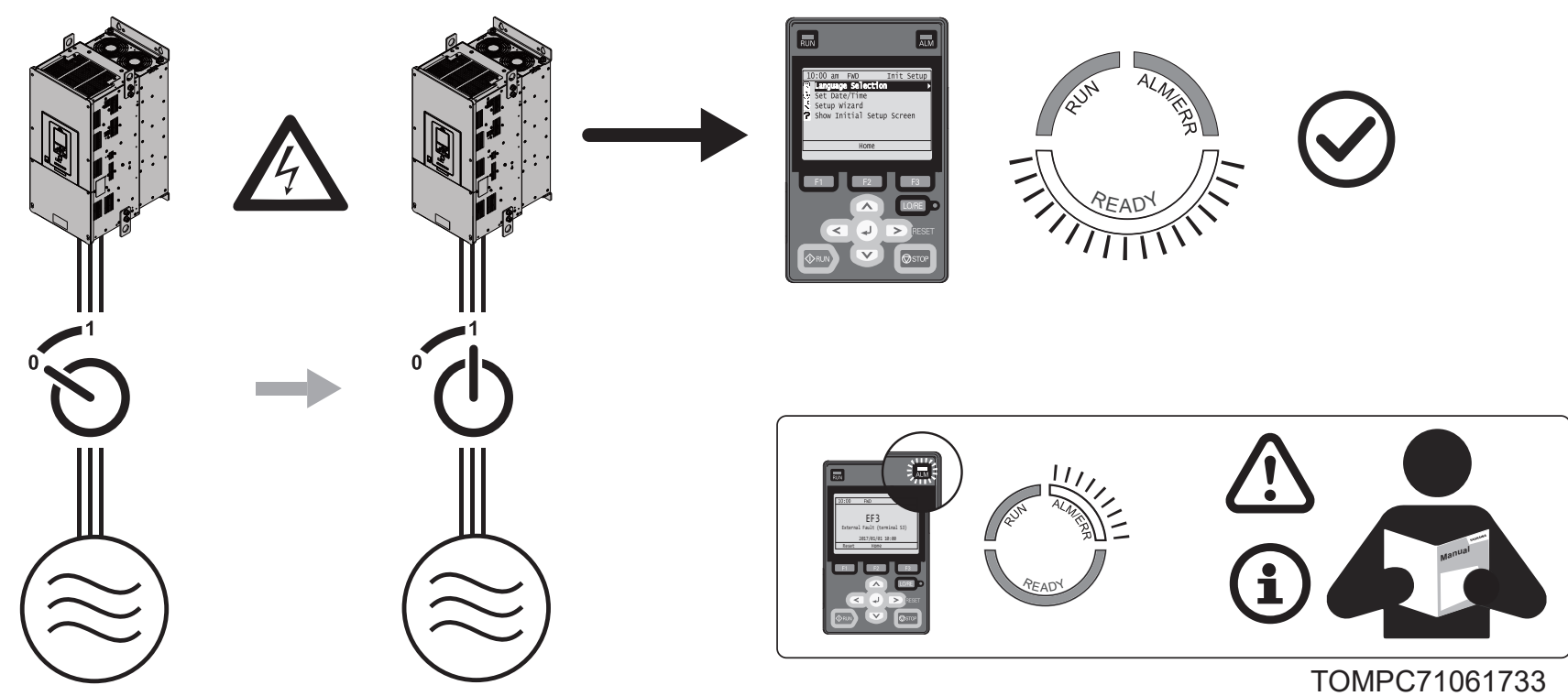
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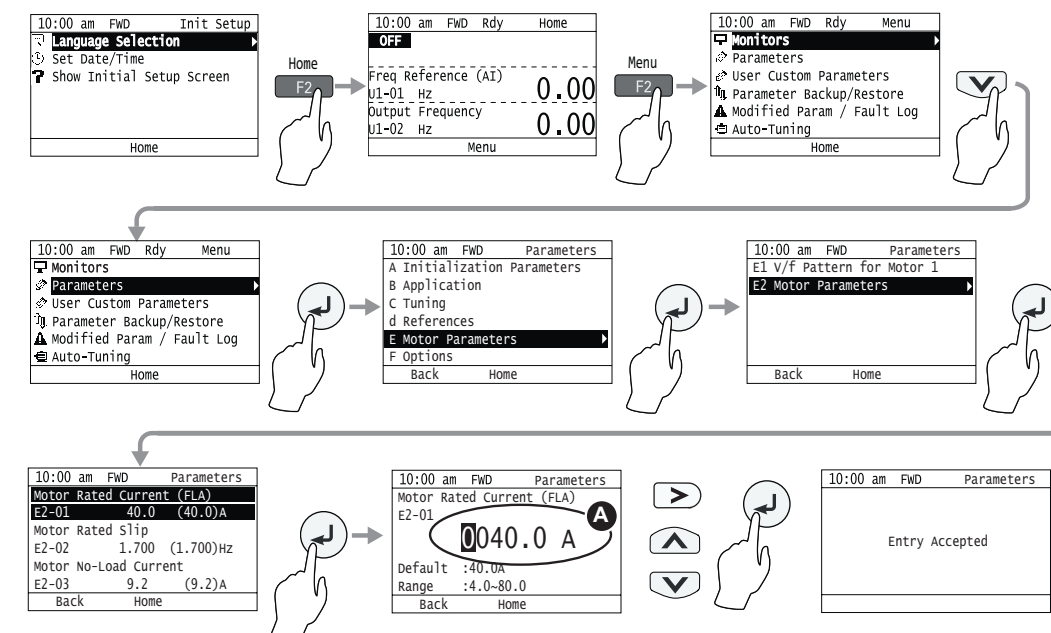


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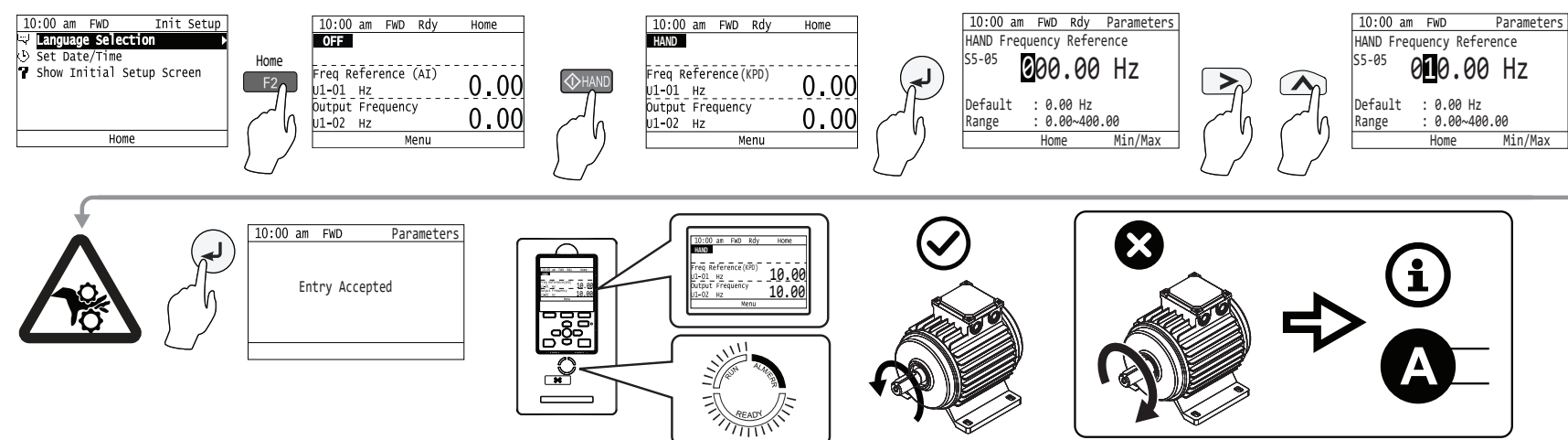


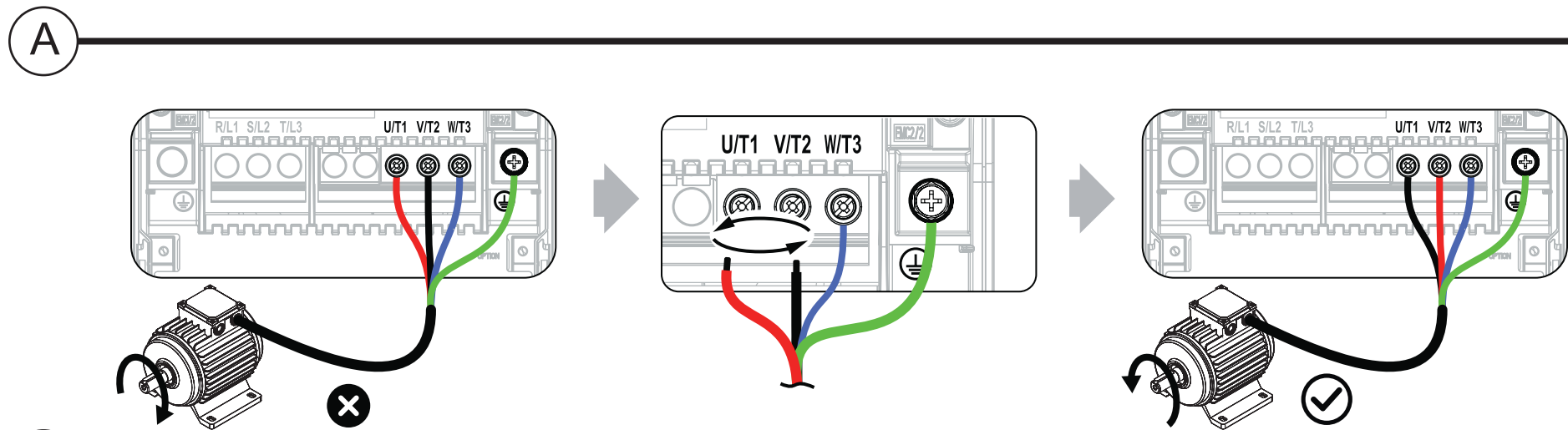
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3 PHASE INVERTER DUTY AC INDUCTION MOTOR NAMEPLATE EXAMPLE									
MODEL	XX	123AAAA123XX-X0				X FRAME 123A			
POLES	X	ENC XXXX		CODE X		DES A		TYPE ABC INS X	
VOLTS	XXX	FL RPM		XXXX					
SF 1.0	DUTY CONT	MAX AMB °C		XX		TEMP SENSORS		T-STATS	
SERIAL		N.L. AMPS				XX.X/XX.X			
MAX RPM 4200		S.E. BRG. 309		O.S.E BRG.		XXX		ROTOR WK? X.X	
HZ	kW	RPM		TORQUE (LB FT)		VOLTS (HIGH CONN)		AMPS (HIGH CONN)	
1	-	0		XX.X		-		XX.X	
60	XX	XXXX		XX.X		XX		XX.X	
120	XX	XXXX		XX.X		XXX		XX.X	
OHMS PH.	R1: .XXX	R2: .XXX		X1: X.XX		X2: X.XX		X3: XX.X	
P/N XXXXXXXX									



(20





B

A: Initialization	d: Reference Settings	H: Terminal Functions	n: Special Adjustment	T: Auto-Tuning
A1 Initialization	d1 Frequency Reference	H1 Digital Inputs	n1 Hunting Prevention	T0 Tuning Mode Selection
A2 User Parameters	d2 Reference Limits	H2 Digital Outputs	n3 High Slip/Overexcite Braking	T1 InductionMotor Auto-Tuning
b: Application	d3 Jump Frequency	H3 Analog Inputs	n7 EZ Drive	T2 PM Motor Auto-Tuning
b1 Operation Mode Selection	d4 Freq. Ref. Up/Down & Hold	H4 Analog Outputs	n8 PM Motor Control Tuning	T4 EZ Tuning
b2 DC Injection Braking and Short Circuit Braking	d6 Field Weakening	H5 Serial Communication	o: Keypad-Related Settings	U: Monitors
b3 Speed Search	d7 Offset Frequency	H7 Virtual Inputs/Outputs	o1 Keypad Display	U1 Operation Status Monitors
b4 Timer Function	E: Motor	L: Protection Functions	o2 Keypad Operation	U2 Fault Trace
b5 PID Control	E1 V/f Pattern for Motor 1	L1 Motor Protection	o3 Copy Keypad Function	U3 Fault History
b8 Energy Saving	E2 Motor 1 Parameters	L2 Power Loss Ride Through	o4 Maintenance Monitors	U4 Maintenance Monitors
C: Tuning	E3 V/f Pattern for Motor 2	L3 Stall Prevention	o5 Log Function	U5 PID Monitors
C1 Accel & Decel Time	E4 Motor 2 Parameters	L4 Speed Detection	q: DriveWorksEZ Parameters	U6 Operation Status Monitors
C2 S-Curve Characteristics	E5 PM Motor Settings	L5 Fault Restart	r: DriveWorksEZ Connections	U7 DriveWorksEZ Monitors
C3 Slip Compensation	E9 Motor Setting	L6 Torque Detection	S: Special Applications	UA Network Multiplexing
C4 Torque Compensation	F: Options	L7 Torque Limit	S1 Dynamic Noise Control	UB BACnet Diagnostic Monitors
C5 Auto Speed Regulator (CSR)	F6 Communication Option	L8 Drive Protection	S2 Sequence Run Timers	Y: Application Features
C6 Carrier Frequency	F7 Ethernet Options	L9 Drive Protection 2	S3 PI2 Control	Y1 Application Basics
			S5 HAND/OFF/AUTO Operation	Y2 PID Sleep and Protection
			S6 Protection	Y4 Application Advanced
				Y9 Network Multiplex Options
				YA Preset Setpoint
				YC Feedback Features
				YF PI Auxiliary Control

C

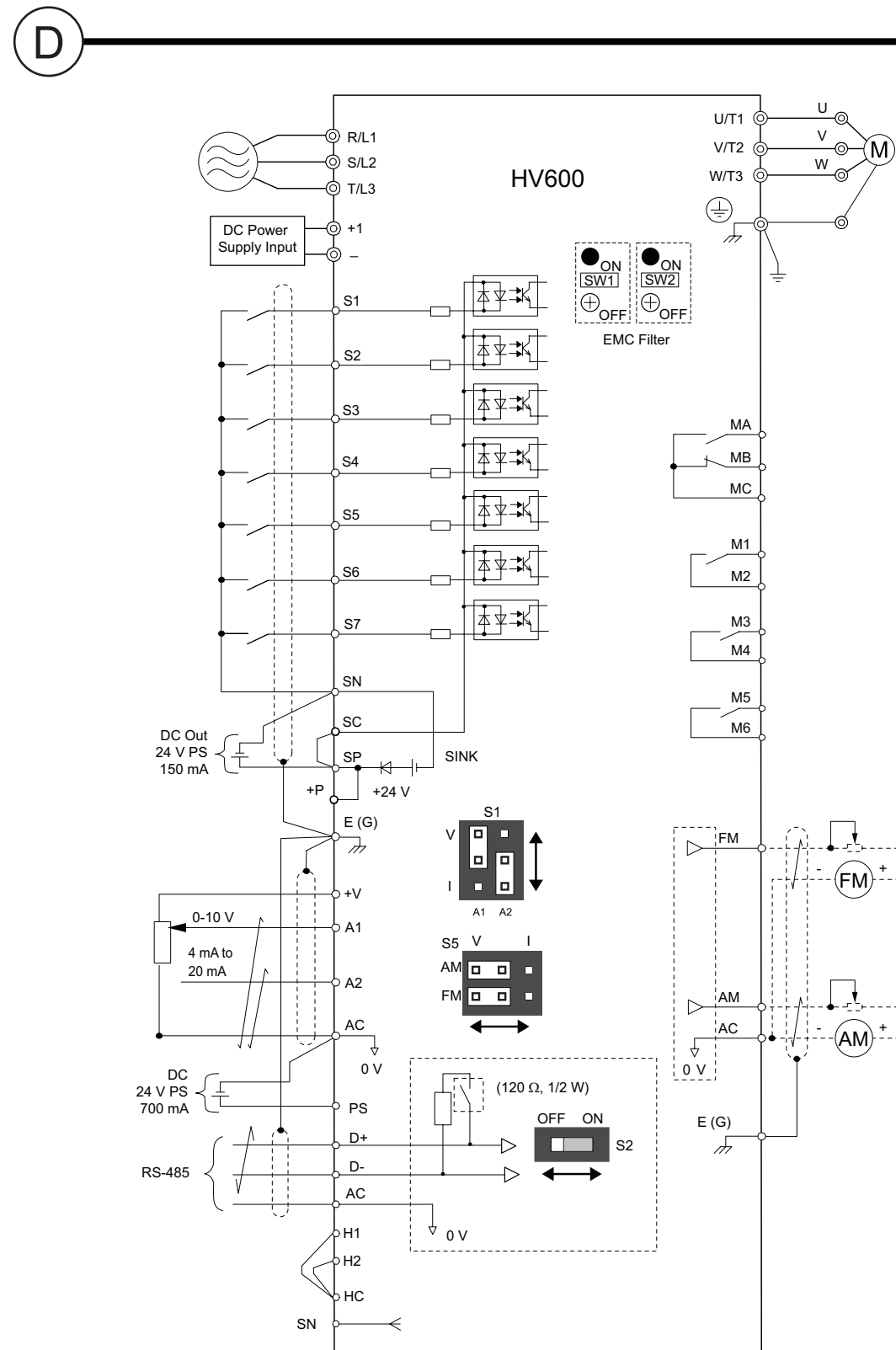
PDF

<https://www.yaskawa.eu.com/manuals/hv600>

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Terminal	Type	Signal Level	Default
S1	MFDI 1	Photocoupler 24 V, 6 mA Internal impedance: 4.7 kΩ	Forward run/Stop
S2	MFDI 2		User-defined
S3	MFDI 3		External fault
S4	MFDI 4		Fault reset
S5	MFDI 5		Multi-step speed 1
S6	MFDI 6		Multi-step speed 2
S7	MFDI 7		Jog command
SN	MFDI power 0 V	24 V, 150 mA maximum	-
SC	MFDI common		-
SP	MFDI power + 24 VDC		-
H1	Safe disable input 1	Photocoupler 24 V, 6 mA Internal impedance: 4.7 kΩ	-
H2	Safe disable input 2		-
HC	Safe disable common		-
+V	Frequency setting power supply	10.5 V (20 mA maximum)	-
A1	MFAI 1	0 V ~ 10 V/100% (input impedance 20 kΩ) 4 mA ~ 20 mA/100%	Master frequency reference
A2	MFAI 2	0 mA ~ 20 mA/100% (input impedance 250 Ω)	Combined w/A1
AC	Common	0 V	-
E(G)	Connect shielded cable	-	-
MA	Fault relay out	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA	Fault
MB	Fault relay out	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA	Fault
MC	Common	0 V	-
M1	MFDO	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA	During run
M2	MFDO		Zero speed
M3	MFDO		Speed agree 1
M4	MFDO	0 V ~ +10 V/0% ~ 100% 4 mA ~ 20 mA	Output frequency
M5	MFDO		Output current
M6	MFDO		Output current
FM	MFAO 1	0 V ~ +10 V/0% ~ 100% 4 mA ~ 20 mA	Output frequency
AM	MFAO 2	0 V ~ +10 V/0% ~ 100% 4 mA ~ 20 mA	Output current
AC	Common	0 V	-
+P	External power supply	24 V (150 mA maximum)	-
PS	External 24 V PS input	21.6 VDC ~ 26.4 VDC, 700 mA	-
AC	External 24 V PS ground	0V	-
D+	Communication +	APOGEE FLN, BACnet, MEMOBUS/Modbus, Metasys N2 RS-485 115.2 kbps maximum	-
D-	Communication -	APOGEE FLN, BACnet, MEMOBUS/Modbus, Metasys N2 RS-485 115.2 kbps maximum	-
AC	Common	0 V	-

E

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