

1336 PLUS, PLUS II, FORCE, IMPACT & REGEN Spare Parts

0.37-597 kW / 0.5-800 HP
(200-240V), (380-480V), (500-600V)

ATTENTION: Hazardous voltages are present in the drive. Serious or fatal injury can occur from electric shock. DO NOT attempt repair without a troubleshooting manual or contacting Allen-Bradley for assistance.

Significance of Level Numbers

Level 1 - Major Assemblies
Recommended stocking locations include large users and OEM's, distributors, and GTS.

Level 2 - Minor Assemblies
Recommended stocking locations include distributors and GTS.

Level 3 - Discrete Components
Recommended stocking locations include GTS.

Installation Instructions Spare Parts installation instructions are documented in the troubleshooting manuals.

Spare Part Catalog Number Description (Example)

<u>1336</u>	--	<u>BDB</u>	--	<u>SP1</u>	--	<u>A</u>
1336 = PLUS, FORCE, IMPACT		Spare Part Type		Common Spare		Rev
1336S = 1336 PLUS				Part Delineator		
1336F = 1336 PLUS II						
1336T = 1336 FORCE						
1336E = 1336 IMPACT						
1336R = 1336 REGEN						

General Procedure For Ordering Parts Not Listed In This Spare Parts Matrix

- 1) Contact A-B Standard Drives Technical Support during normal business hours - 7 A.M. to 6 P.M. (CST).
- 2) Technical Support will provide the part number that needs to be ordered, PROVIDED:
 - a) The Catalog Number(s) of the drive(s), the system, or the equipment in question is known.
 - b) The RA Sales Order Number (SO) for the drive(s) or equipment in question is known.
 - c) You have the correct Troubleshooting Manual to help identify the parts you are seeking.
- 3) Place parts order through your local RA Distributor.
- 4) Local RA Distributor will place an order, in PASSPORT, then contact Customer Service (E-Team) to process and/or expedite your parts order. The CS representative will provide P & A.

IMPORTANT NOTES: Only A-B distributors may contact Customer Service. Calls from end users are not accepted by Customer Service. CS has precedence on any P & A issues.

Your Comments Are Welcome

If you have comments on how to improve this Spare Parts Index or Parts Ordering Issues, please contact:
A-B Standard Drives Technical Support Phone: 262 512 8176

Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description
no 'Level' rating for these items		Series C Conversion Kit (includes Gate Drive PCB, Inductor and Precharge SCR)
	1336-CONV-SP11A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 7.5 HP
	1336-CONV-SP12A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 10 HP
	1336-CONV-SP13A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 15 HP
		Bus Fuse Upgrade Kit - D Frame (includes higher amperage bus fuse and fuse adapter)
	1336-CONV-SP15A	Bus Fuse and Busbar Upgrade Kits, STEF, 250A, 230V, 40 HP
	1336-CONV-SP16A	Bus Fuse and Busbar Upgrade Kits, STEF, 300A, 230V, 50 HP
	1336-CONV-SP17A	Bus Fuse and Busbar Upgrade Kits, STEF, 350A, 230V, 60 HP
		Plus to PlusII Upgrade Kit
	1336F-UPGRA11	Main Control Bd, HAS2, and decal, A Frames, Latest FRN
1336F-UPGRB11	Main Control Bd, HAS2, and decal, Frames B-G, Latest FRN	
Le		Main Control PCBs T.G. Symbol -> MAIN CTL
	1336E-MCB-4UPGRD	PROM, Language and CP, Firmware 4.03
	1336E-MC1-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames A1-A4
	1336E-MC2-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames B-H
	1336E-MC1-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4
	1336E-MC2-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames B-H
	1336E-MC1-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames A1-A4
	1336E-MC2-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames B-H
	1336S-MCB-SP2B	PCB, MAIN CONTROL 1336S,A FRAME/WITH LM
	1336S-MCB-SP1B	PCB,MAIN CONTROL 1336S,B-H FRAME
	1336F-MCB-SP1M	PCB, Main Control 1336F, Frames B-G, Latest FRN, Supersedes 1336F-MCB-SP1A through SP1L
	1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A through SP2L
		1336F FLASH FILES
	1336F-FRN	1336 PLUS II, Latest FIRMWARE
	1336T-MCB-SP34B	PCB, Main Control 1336T, Series B, V3.04
	1336T-MCB-SPM34C	PCB, Main Control 1336T, Series B, Master, V3.04
	1336T-MCB-SPS34C	PCB, Main Control 1336T, Series B, Slave, V3.04
	1336T-MCB-UPGRAD	PROM, Firmware Upgrade, MAIN CONTROL, V5.01
		Adapter PCBs
	1336T-GT1-SP34B	PCB, PLC Communications Adapter, Series B, V3.03
	1336T-GT1-SP51A	PCB, PLC Communications Adapter, w/ English LM, V5.01
	1336T-GT1-UPGRAD	Firmware Upgrade, PLC Communications Adapter, V5.01
	1336T-GT2-SP51A	PCB, Standard Adapter, w/ English LM, V5.01
	1336T-GT3EN	Controlnet Adaptor board
		Language Modules
	1336E-EN43	Language Module Kit, 1336E, English, V4.03
	1336S-EN6	LANGUAGE MODULE,V6.XX,ENGLISH
1336T-LM1EN51	Language Module Kit, 1336T, PLC Comm Adapter, English, V5.01	
1336T-LM1FR51	Language Module Kit, 1336T, PLC Comm Adapter, French, V5.01	
1336T-LM1ES51	Language Module Kit, 1336T, PLC Comm Adapter, Spanish, V5.01	
1336T-LM1DE51	Language Module Kit, 1336T, PLC Comm Adapter, German, V5.01	

Quantity of Kits Required per Drive												
A	Frame B			Frame C			Frame D			Frame E		
.5-10 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP
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Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description
	1336T-LM1IT51	Language Module Kit, 1336T, PLC Comm Adapter, Italian, V5.01
	1336T-LM2EN51	Language Module Kit, 1336T, Standard Adapter, English, V5.01
	1336T-LM2FR51	Language Module Kit, 1336T, Standard Adapter, French, V5.01
	1336T-LM2ES51	Language Module Kit, 1336T, Standard Adapter, Spanish, V5.01
	1336T-LM2DE51	Language Module Kit, 1336T, Standard Adapter, German, V5.01
	1336T-LM2IT51	Language Module Kit, 1336T, Standard Adapter, Italian, V5.01
		Gate Drive PCBs T.G. Symbol -> BASE DRV / POWER SUPPLY
	1336-BDB-SP61A, C	Obsolete--replaced by 1336-BDB-SP61D
	1336-BDB-SP61D	PCB, Gate Driver, 1336T, 230V, 1 HP, Series C & up
	1336-BDB-SP62A, C	Obsolete--replaced by 1336-BDB-SP62D
	1336-BDB-SP62D	PCB, Gate Driver, 1336T, 230V, 3HP, Series C & up
	1336-BDB-SP11A, C	Obsolete--replaced by 1336-BDB-SP11D
	1336-BDB-SP11D	PCB, Gate Driver, 1336STE, 230V, 7.5 HP, Series C & up 1336F, 230V, 7.5 HP, Ser A & up
	1336-BDB-SP12A, C	Obsolete--replaced by 1336-BDB-SP12D
	1336-BDB-SP12D	PCB, Gate Driver, 1336STE, 230V, 10 HP, Series C & up 1336F, 230V, 10 HP, Ser A & up
	1336-BDB-SP13A, C	Obsolete--replaced by 1336-BDB-SP13D
	1336-BDB-SP13D	PCB, Gate Drive, 1336STE, 230V, 15 HP, Series C & up 1336F, 230V, 15 HP, Ser A and Up
	1336-BDB-SP14A, C	Obsolete--replaced by 1336-BDB-SP14D
	1336-BDB-SP14D	PCB, Gate Driver, 1336STEF, 230V, 20 HP
	1336-BDB-SP15A, C	Obsolete--replaced by 1336-BDB-SP15D
	1336-BDB-SP15D	PCB, Gate Driver, 1336STEF, 230V, 25 HP
	1336-BDB-SP16A, C	Obsolete--replaced by 1336-BDB-SP16D
	1336-BDB-SP16D	PCB, Gate Driver, 1336STEF, 230V, 30 HP
	1336-BDB-SP25A, C	Obsolete--replaced by 1336-BDB-SP25D
	1336-BDB-SP25D	PCB, Gate Driver, 1336STEF, 230V, 40 HP
	1336-BDB-SP26A, C	Obsolete--replaced by 1336-BDB-SP26D
	1336-BDB-SP26D	PCB, Gate Driver, 1336STEF, 230V, 50 HP
	1336-BDB-SP27A, C	Obsolete--replaced by 1336-BDB-SP27D
	1336-BDB-SP27D	PCB, Gate Driver, 1336STEF, 230V, 60 HP
	1336-BDB-SP35A, C	Obsolete--replaced by 1336-BDB-SP35D
	1336-BDB-SP35D	PCB, Gate Driver, 1336STEF, 230V, 75 HP
	1336-BDB-SP36A, C	Obsolete--replaced by 1336-BDB-SP36D
	1336-BDB-SP36D	PCB, Gate Driver, 1336STEF, 230V, 100 HP
	1336-BDB-SP67A, C	Obsolete--replaced by 1336-BDB-SP67D
	1336-BDB-SP67D	PCB, Gate Driver, 1336STEF, 230V, 125 HP
		Bus Capacitors T.G. Symbol -> C1 - Cx or C1 - Cxx
	1336-CAP-SP6A	CAP, Assem., 1336STF, 230V, 7.5 - 10 HP (1 Assem. = 2 bus caps)
	1336-CAP-SP7A	CAP, assem., 1336STEF, 230V, 15 HP (1 assem. = 4 bus caps)
	1336-CAP-SP9A	CAP, assem., 1336STEF, 230V, 20 - 30 HP (1 assem. = 6 bus caps)
	1336-CAP-SP11A	CAP, assem., 1336STEF, 230V, 40 - 60 HP (1 assem. = 1 bus cap)
	1336-CAP-SP12A	CAP, assem., 1336STEF, 230V, 75 - 125 HP (1 assem. = 1 bus cap)

Quantity of Kits Required per Drive												
A	Frame B			Frame C			Frame D			Frame E		
.5-10 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
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Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description
		T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = not applicable
Level 2		Bus Fuses (also see Bus Fuse Upgrade Kits above) T.G. Symbol -> F1
	1336-F1-SP18A	Bus Fuse, 200A, 1336STEF, 230V, 20-30HP
	1336-F1-SP1A	Obsolete, use 1336-CONV-SP15A
	1336-F1-SP2A	Obsolete, use 1336-CONV-SP16A
	1336-F1-SP3A	Obsolete, use 1336-CONV-SP17A
	1336-F1-SP6A	Bus Fuse, 600A, 1336STEF, Frame E
Level 2		Precharge PCBs T.G. Symbol -> PRECHARGE
		1336-PB-SP1A, B, C, D
	1336-PB-SP1E	PCB, Precharge (SA), 1336STEF, 230V, 20 - 30 HP
	1336-PB-SP4A	PCB, Precharge (CB), 1336STEF, 230V, 20 - 30 HP
	1336-PB-SP7A, C	obsolete, replaced by 1336-PB-SP13F
	1336-PB-SP12A,B	obsolete, replaced by 1336-PB-SP16B
	1336-PB-SP13A,B,C,D,E	obsolete, replaced by 1336-PB-SP13F
	1336-PB-SP13F	PCB, Precharge (SA), 1336STEF, 230V, 40 - 125 HP
	1336-PB-SP16A	obsolete, replaced by 1336-PB-SP16B
	1336-PB-SP16B	PCB, Precharge (CB), 1336STEF, 230V, 40 - 125 HP
		Snubber PCBs T.G. Symbol -> (SCR) SNUBBER BOARD
	1336-SN-SP1A	Obsolete--replaced by 1336-SN-SP1B
	1336-SN-SP1B	PCB, Converter & Inverter Snubber, (SA), 1336STEF, 460V, X40 - X60
	1336-SN-SP21A	PCB, Inverter Snubber (CB), 1336STEF, C Frame
	1336-SN-SP3A	PCB, Converter Snubber (SA), 1336STEF, D Frame
	1336-SN-SP18A	PCB, Converter Snubber (CB), 1336STEF, D & E Frame
	1336-SN-SP6A	PCB, Inverter Snubber, 1336STEF, 230V, 40 - 50 HP
	1336-SN-SP4A	PCB, Inverter Snubber, 1336STEF, 230V, 60 HP
	1336-SN-SP8A	PCB, Converter Snubber (SA), 1336STEF, E Frame
	1336-SN-SP9A	PCB, Inverter Snubber, obsolete, replaced by 1336-SN-SP10A
	1336-SN-SP10A	PCB, Inverter Snubber, 1336STEF, E Frame
		Rectifiers T.G. Symbol -> BR1
	1336-BR-SP1A	Rect, Bridge, Diode, Obsolete, replaced by 1336-BR-SP2A
	1336-BR-SP2A	Rect, Bridge, Diode, 1336STEF, 230V, 7.5 HP
	1336-BR-SP3A	Rect, Bridge, Diode, Obsolete, replaced by 1336-BR-SP4A
	1336-BR-SP4A	Rect, Bridge, Diode, 1336STEF, 230V, 10 - 15 HP
	1336-BR-SP5A	Rect, Bridge, SCR, Obsolete -- replaced by 1336-BR-SP6A
	1336-BR-SP6A	Rect, Bridge, SCR, 1336STE Series A-D, 1336F Series A 230V, 20 - 30 HP drives manuf'd before 8-4-2000
	1336-BR-SP10A	Rect, Bridge, SCR, 1336STE Series E, 1336F Series B 230V, 20 - 30 HP drives manuf'd after 8-4-2000
		Input SCRs T.G. Symbol -> SCR1, SCR1 - SCR3
	1336-SCR-SP1A	SCR, Assem. (SA), 1336STEF, 230V, 40 - 60 HP
	1336-SCR-SP3A	SCR, Assem. (CB), 1336STEF, 230V, 40 - 50 HP
	1336-SCR-SP5A	SCR, Assem. (CB), 1336STEF, 230V, 60 HP
	1336-SCR-SP7A	SCR, Assem. (SA), 1336STEF, 230V, 75 - 125 HP

Quantity of Kits Required per Drive												
A	Frame B			Frame C			Frame D			Frame E		
.5-10 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP
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Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description
Level 3	1336-L-SP16A	Inductor, 1336STEF, 230V, 75 HP
	1336-L-SP17A	Inductor, 1336STEF, 230V, 100 - 125 HP
		Mounting Feet (1 pair)
	1336-FEET-SP1A	Kit, Mounting Feet, 1336STEF, Frame B (There is no 240V-A4 frame)
	1336-FEET-SP2A	Kit, Mounting Feet, 1336STEF, Frame C
	1336-FEET-SP3A	Kit, Mounting Feet, 1336STEF, Frame D
	1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E
	1336-FEET-SP7A	Kit, Mounting Feet, 1336STEF, Frame A1 (AQF05 - AQF10)
	1336-FEET-SP8A	Kit, Mounting Feet, 1336STEF, Frame A2 (AQF15 - AQF20)
	1336-FEET-SP5A	Kit, Mounting Feet, 1336STEF, Frame A3 (AQF30 - AQF50)
	1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (AQF75 only)
		Input MOVs - Stand Alone Only T.G. Symbol -> MOV1
	1336-MOV-SP1A	MOV, 1336STEF, 230V, 40 - 60 HP
	1336-MOV-SP3A	MOV, 1336STEF, 230V, 75 - 125 HP
		Resistors T.G. Symbol -> R20 - R22
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 230V, 40 HP
	1336-R2-SP1A	Resistor, Precharge (CB), 1336STEF, 230V, 50 - 60 HP
	1336-RLOAD-SP2A	Resistor, Load, 1336STEF, 230V, 7.5 - 30 HP
	1336-RLOAD-SP3A	Resistor, Load, 1336STEF, 230V, 40 - 50 HP
	1336-RLOAD-SP4A	Resistor, Load, 1336STEF, 230V, 60 HP
	1336-RLOAD-SP5B	Resistor, Load, 1336STEF, 230V, 75 - 125 HP
		Miscellaneous 1/4 turn Standoffs, Screw Kits, and Ribbon Cables
	1336-STDOFF-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEFR, used w/Gate Driver Bds
		Screw Kits
	1336-SCREW-SP3A	Kit, Screw, (25 Pcs) M4 x 0.7 x 89 mm, 1336STEF
	1336-SCREW-SP4A	Kit, Screw, (25 Pcs) M5 x 0.8 x 10 mm, 1336STEF
	1336-SCREW-SP5A	Kit, Screw, (25 Pcs) M5 x 0.8 x 16 mm, 1336STEF
	1336-SCREW-SP6A	Kit, Screw, (25 Pcs) M6 x 1.0 x 12 mm, 1336STEF
		Cables
	1336-RCBL-SP1B	Kit, Ribbon Cable w/ Ferrite Clamp, 1336STE, Frame A-E
		Thermistors T.G. Symbol -> ST or NTC1
	1336-TR-SP1A	Kit, Thermistor, 1336STEF, Frame B
	1336-TR-SP2A	Kit, Thermistor, 1336STEF, Frame C
	1336-TR-SP3A	Kit, Thermistor, 1336STEF, Frame D
	1336-TR-SP4A	Kit, Thermistor, 1336STEF, Frame E
	Transformers (Stand Alone Only) T.G. Symbol -> T1	
1336-T-SP1A	XFER, 1336STEF, 230V, 40 - 60 HP	
1336-T-SP3A	XFER, 1336STEF, 230V, 75 - 125 HP	

Quantity of Kits Required per Drive												
A	Frame B			Frame C			Frame D			Frame E		
.5-10 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP
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Conformal Coated Spare Parts - PLUS, PLUS II, FORCE & IMPACT Drives

		Quantity of Kits Required Per Drive																																					
		Frame B						Frame C						Frame D				Frame E		Frame F				Frame G				H											
Level	Catalog Number	5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	48A	25 HP	30 HP	X40 HP	40 HP	50 HP	X60 HP	78A	60 HP	75 HP	100 HP	125 HP	X150 HP	180A	150 HP	200 HP	250 HP	X300 HP	250 HP	300 HP	350 HP	400 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	600/650	700 HP	800 HP
		<p>Main Control PCBs T.G. Symbol -> MAIN CTL</p>																																					
	1336S-MCBMX3-SP1A	PCB, Main Control 1336S, Frames B-H, conformal coated																																					
	1336E-MCBMX3-SP2A	PCB, Main Control 1336E, 2.03 Firmware, Frames B-H conformal coated																																					
	1336E-MC1MX3-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4 conformal coated																																					
	1336E-MC2MX3-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames B-H conformal coated																																					
		<p>Logic PCBs for 1336S & 1336F Main CTL PCBs (consumable item - not repairable)</p>																																					
	1336-L4MX3	PCB, Logic, contact closure, conformal coated																																					
	1336-L5MX3	PCB, Logic, 24V AC/DC, conformal coated																																					
	1336-L6MX3	PCB, Logic, 115VAC, conformal coated																																					
		<p>Gate Drive PCBs CONFORMAL COATED T.G. Symbol -> BASE DRV / POWER SUPPLY, A1</p>																																					
		<p>460V</p>																																					
	1336-BDBMX3-SP3C	PCB, Gate Driver, 1336STE, 460V, 15 HP, Series C & up, 1336F, 460V, 15 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP14A	PCB, Gate Driver, 1336STE, 460V, 20 HP, Series C & up 1336F, 460V, 20 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP15A	PCB, Gate Driver, 1336STE, 460V, 25 HP, Series C & up 1336F, 460V, 25 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP16A	PCB, Gate Driver, 1336STE, 460V, 30 HP, Series C & up Conformal coated																																					
	1336-BDBMX3-SP57D	PCB, Gate Driver, 1336STEF, 460V, X40 HP Conformal coated																																					
	1336-BDBMX3-SP17D	PCB, Gate Driver, 1336STEF, 460V, 40 HP Conformal coated																																					
	1336-BDBMX3-SP18D	PCB, Gate Driver, 1336STEF, 460V, 50 HP Conformal coated																																					
	1336-BDBMX3-SP19D	PCB, Gate Driver, 1336STEF, 460V, X60 HP Conformal coated																																					
	1336-BDBMX3-SP56D	PCB, Gate Driver, 1336STEF, 460V, X150 HP Conformal coated																																					
	1336-BDBMX3-SP37D	PCB, Gate Driver, 1336STEF, 460V, 150 HP Conformal coated																																					
	1336-BDBMX3-SP39D	PCB, Gate Driver, 1336STEF, 460V, 250 HP Conformal coated																																					
	1336-BDBMX3-SP58A	PCB, Gate Driver, 1336STEF, 460V, 200 HP Conformal coated																																					
		<p>460V (650VDC) Common Bus</p>																																					
	1336-BDBMX3-SP63A	PCB, Gate Driver, 1336STEF, 460V, 600 HP, G-frame, Common Bus, Conformal coated																																					
		<p>575V</p>																																					
	1336-BDBMX3-SP60A	PCB, Gate Driver, 1336STE, 575V, 15 HP Conformal coated																																					
	1336-BDBMX3-SP24A	PCB, Gate Driver, 1336STEF, 575V, 60 HP [C060 is a C-frame] Conformal coated																																					
	1336-BDBMX3-SP61A	PCB, Gate Driver, 1336STEF, 575V, 75 HP Conformal coated																																					
	1336-BDBMX3-SP62A	PCB, Gate Driver, 1336STEF, 575V, 150 HP Conformal coated																																					
		<p>Precharge PCBs CONFORMAL COATED T.G. Symbol -> PRECHARGE</p>																																					
		<p>460V</p>																																					
	1336-PBMX3-SP2A	PCB, Precharge (SA), 1336STEF, 460V, X40 - X60 HP Conformal coated																																					
	1336-PBMX3-SP8A	PCB, P-C, (SA), 460V, 60 - X150 HP Conformal coated																																					
		<p>460V (650VDC) Common Bus</p>																																					
	1336-PBMX3-SP10A	PCB, Precharge (CB), 1336STEF, 650VDC, 60 - 800 HP Conformal coated																																					
		<p>575V</p>																																					
	1336-PBMX3-SP10A	PCB, Precharge (SA), 1336STEF, 575V, 75 - 600 HP Conformal coated																																					

Conformal Coated Spare Parts - PLUS, PLUS II, FORCE & IMPACT Drives

		Quantity of Kits Required Per Drive																																							
A		Frame B				Frame C				Frame D				Frame E		Frame F			Frame G			H																			
Level	Catalog Number	5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	48A	25 HP	30 HP	X40 HP	40 HP	50 HP	X60 HP	78A	60 HP	75 HP	100 HP	125 HP	X150 HP	180A	150 HP	200 HP	250 HP	X300 HP	250 HP	300 HP	350 HP	400 HP	450 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP

Level	Catalog Number	Description
		T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone (CB) = Common Bus No Designator = Applies to all drives X = Not Applicable
		Snubber PCBs CONFORMAL COATED T.G. Symbol -> INVERTER & CONVERTER SNUBBER BDS
		230V
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, D-Frame, (A11) Conformal coated
	1336-SNMX3-SP4A	PCB, Inverter Snubber (SA), 1336STEF, D-Frame, (A20-A22) Conformal coated
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, E-Frame, (A11-A13) Conformal coated
	1336-SNMX3-SP7A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - 250 HP, (A20-A22) Conformal coated
		460V
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, D-Frame, (A11) Conformal coated
	1336-SNMX3-SP6A	PCB, Inverter Snubber, 1336STEF, 460V, 60 - 100 HP, (A20-A22) Conformal coated
	1336-SNMX3-SP4A	A22) Conformal coated
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, E-Frame, (A11-A13)
	1336-SNMX3-SP7A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - 250 HP, (A20-A22) Conformal coated
	1336-SNMX3-SP8A	PCB, Inverter Snubber, 1336STEF, 460V, X250 - 800 HP (A23-A28) Conformal coated
		575V
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, 575V, Frame E, (A11 - A13) Conformal coated
	1336-SNMX3-SP12A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - X300 HP, (A20-A22) Conformal coated
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, 575V, D-Frame, (A11) Conformal coated
	1336-SNMX3-SP5A	PCB, Inverter Snubber, (SA) 1336STEF, 575V, D-frame, (A20-A22) Conformal coated

230V D-frame										230V E-frame																													

460V D-frame										460V E-frame																													

575V D-frame										575V E-frame																													

Spare Parts - 460V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = Not Applicable	
Level 3	1336-QOUT-SP6A	TSTR, Assem., Output, 1336STEF, 460V, 25 - 30 HP		
	1336-QOUT-SP8A	TSTR, Assem., Output, 1336STEF, 460V, X40 - X60 HP		
	1336-QOUT-SP12A	TSTR, Assem., Output, 1336STE, 460V, 60-75 HP Series A 2 / kit		
	1336-QOUT-SP12B	TSTR, Assem., Output, 1336STEF, 460V, 60-75HP Series B and Up 2 / kit		
	1336-QOUT-SP13A	TSTR, Assem., Output, 1336STEF, 460V, 100 HP		
	1336-QOUT-SP14A	TSTR, Assem., Output, 1336STEFR, 460V, 125 - X150 HP		
	1336-QOUT-SP18A	TSTR, Assem., Output, 1336STEF, 460V, Frame E, 2 / Kit kit includes--qty 2--Gate Interface Bds (A23 - A28)		
	1336-QOUT-SP25A	TSTR, Assem., Output, 1336STEF, 460V, Frame F, 2 / Kit kit includes--qty 2--Gate Interface Bds (A23 - A28)		
	1336-QOUT-SP20A	TSTR, Assem., Output, 1336STEF, 460V, X250-350 HP, 4 / kit includes--qty2--Gate Interface Bds (A23 - A28)		
	1336-QOUT-SP21A	TSTR, Assem., Output, 1336STEF, 460V, 400-800 HP, 4 / kit includes--qty2--Gate Interface Bds (A23 - A28)		
	1336-QOUT-SP29A	TSTR, ASSY, OUTPUT, 1336STEF, 480V, J- FRAME, 2/KIT		
		Precharge Modules T.G. Symbol -> PCMODULE		
	1336-QPRE-SP1A	1336STE, 460V, 7.5-15 HP, Ser A & B-order ser C conversion kit, 1336-CONV-SPxA		
	1336-QPRE-SP1C	TSTR, Precharge, 1336STE, 460V, 7.5 - 30 HP, Series C & up 1336F, 460V, 15-30 HP	1	1
	1336-QPRE-SP3A	1336STE, 460V, 20-30 HP, Ser A & B-order ser C conversion kit 1336-CONV-SPxA	1	1
	1336-QPRE-SP5A	SCR, Precharge, (CB) 1336STEF, 460V, X40-X60 hp		
		Current Transducers T.G. Symbol -> CT1, CT2		
	1336-CT-SP1A	Current Transducer, 1336STEFR, Frame D		
	1336-CT-SP2A	Current Transducer, 1336STEF, Frame E		
	1336-CT-SP4A	Current Transducer, 1336STEF, Frame F		
	1336-CT-SP3A	Current Transducer, 1336STEF, Frames G, H		
	1336-CT-SP5A	CURRENT TRANSDUCER, 1336F, (CB) J-FRAME, 800A		
	1336-CT-SP6A	CURRENT TRANSDUCER, 1336F, (CB) J-FRAME, 900A		
	1336-CT-SP7A	CURRENT TRANSDUCER, 1336F, (CB) J-FRAME, 1000A		
	1336-CT-SP4A	CURRENT TRANSDUCER, 1336STE, FRAME F, J-FRAME 500-600HP		
		Fans T.G. Symbol -> FAN		
	1336-FAN-SP1A	Fan, 1336STEF, Frame B & Frame C		
	1336-FAN-SP8A	Fan, 1336STEF, Frames B&C, NEMA 4X		
	1336-FAN-SP2A	Fan, 1336STEFR, Frame D (includes CHB1 Fan Capacitor)		
	1336-FAN-SP3A	Fan, 1336STEF, Frame E (includes CHB1 Fan Capacitor)		
	1336-FAN-SP6A	Obsolete, replaced by 1336-FAN-SP6B		
	1336-FAN-SP6B	Fan, 1336STEF, Frame F (includes C-HB1 Fan Capacitor)		
	1336-FAN-SP4A	Obsolete, replaced by 1336-FAN-SP4B		
	1336-FAN-SP4B	Fan, Heatsink Bottom, 1336STEF, Frames G, H, (FAN 1), includes C-HB1 Cap		
	1336-FAN-SP5A	Fan, Heatsink Side, 1336STEF, Frames G, H, (FAN 2), includes C-HB1 Cap.		
1336-FAN-SP7A	Fan, 1336STEF, Frame A4 only, BRF75 - 200; includes grill mounting screws			
1336-FAN-SP9A	Fan, Converter, 1336E, Frame H			
1336-FAN-SP10A	FAN, 1336F, J-FRAME			
	Ground Fault Transformers T.G. Symbol -> CT3			
1336-GF-SP1A	Current Transformer, Ground Fault, 1336STEF, Frame C			
1336-GF-SP2A	Current Transformer, Ground Fault, 1336STEFR, Frame D			
1336-GF-SP3A	Current Transformer, Ground Fault, 1336STEF, Frame E			
1336-GF-SP6A	Current Transformer, Ground Fault, 1336STEF, Frame F			
1336-GF-SP4A	Current Transformer, Ground Fault, (SA) 1336STEF, Frames G			
1336-GF-SP5A	Current Transformer, Ground Fault, (CB) 1336STEF, Frames G & H			
1336-GF-SP6A	GROUND FAULT TRANSFORMER, 1336STE, F FRAME, J-FRAME 500-600HP			
	Inductors (SA) T.G. Symbol -> L1			
1336-L-SP5A	Inductor, 1336STE, 460V, 25 HP, Series A & B ==> replaced by 1336-CONV-			

		Quantity of Kits Required Per Drive																																								
A		Frame B				Frame C				Frame D				Frame E			Frame F				Frame G				H																	
		5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	48A	X40 HP	40 HP	50 HP	X60 HP	78A	60 HP	75 HP	100 HP	125 HP	X150 HP	180A	150 HP	200 HP	250 HP	250 HP	300 HP	350 HP	400 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP					
							3	3	3		3	3	3	3																												

