



EU Declaration of Conformity

(Original)

Document No: DOC-0003-03-A
Manufacturer: Parker Hannifin Manufacturing Germany GmbH & Co.KG
Electric Motion & Pneumatic Division
Address: Robert-Bosch-Str. 22, 77656 Offenburg, Germany

Herewith we declare under our sole responsibility that the following products

Type of Product: Variable Speed Drives Series AC890
Product Name: 890 CA, CM, CS, CD & SD / Frames B - F
Further Details: See appendix (which is part of this declaration, when attached)

meet the requirements of following EU legislations including their amendments in force at the time of the declaration:

<u>Reference</u>	<u>Name</u>
2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2011/65/EU	RoHS Directive
2009/125/EC	Ecodesign Directive plus Directive (EU) 2019/1781, laying down relevant requirements for electric motors and variable speed drives

The protection and health objectives of following other EU legislations are also met:

<u>Reference</u>	<u>Name</u>
2006/42/EC	Machinery Directive - Appendix IV

Following harmonized standards have been applied:

<u>Reference</u>	<u>Edition</u>
EN IEC 62477-1	2012+A12:2021
EN IEC 61800-3	2004+A1:2012
EN 61800-9-2	2017
EN 61800-5-2	2017
EN ISO 13849-1	2015

Notes:

These products must be installed and operated with reference to the instructions in the product manual. All instructions, warnings and safety information of the product manual must be adhered to.

The products are components to be incorporated into machinery and may not be operated alone. The complete machinery or installation may only be put into service when the safety considerations of the Machinery Directive 2006/42/EC are fully adhered to.

CE mark first applied: 2004-10

Signed for and on behalf of: Parker Hannifin Manufacturing Germany GmbH & Co.KG
Location, date of issue: Offenburg, 2023-11-24

Raphael Wendling
Division Operational Manager EMPD

Timothy Faillo
Division Engineering Manager EMPD



EU Konformitätserklärung

(Übersetzung)

Dokument Nr.: DOC-0003-03-A
Hersteller: Parker Hannifin Manufacturing Germany GmbH & Co.KG
Electric Motion & Pneumatic Division
Anschrift: Robert-Bosch-Str. 22, 77656 Offenburg, Germany

Wir erklären hiermit in unserer alleinigen Verantwortung, dass die nachfolgenden Produkte

Produkttyp: Antriebsregler - Serie AC890
Produktname: 890 CA, CM, CS, CD & SD / Baugrößen B - F
Weitere Angaben: Siehe Anhang (der Teil dieser Erklärung ist, sofern beigelegt)

die grundlegenden Anforderungen der nachfolgend aufgeführten EU-Richtlinien erfüllen, einschließlich ihrer zum Zeitpunkt der Erklärung geltenden Änderungen:

<u>Referenz</u>	<u>Name</u>
2014/35/EU	Niederspannungsrichtlinie
2014/30/EU	EMV-Richtlinie
2011/65/EU	RoHS-Richtlinie
2009/125/EC	Ökodesign-Richtlinie, dazu Richtlinie (EU) 2019/1781 zu Anforderungen für Elektromotoren und Drehzahlregelungen

Die Schutz- und Gesundheitsziele folgender weiterer genannten EU-Richtlinien werden ebenfalls eingehalten:

<u>Referenz</u>	<u>Name</u>
2006/42/EC	Maschinenrichtlinie - Anhang IV

Folgende harmonisierte Normen wurden angewandt:

<u>Referenz</u>	<u>Ausgabe</u>
EN IEC 62477-1	2012+A12:2021
EN IEC 61800-3	2004+A1:2012
EN 61800-9-2	2017
EN 61800-5-2	2017
EN ISO 13849-1	2015

Bemerkungen:

Diese Produkte müssen entsprechend den Anweisungen im Produkthandbuch installiert und betrieben werden. Den im Produkthandbuch beschriebenen Sicherheits-, Installations- und Bedienungshinweisen muss Folge geleistet werden.

Die Produkte sind für den Einbau in eine Maschine bestimmt. Die Inbetriebnahme ist so lange untersagt, bis die Konformität des Endproduktes gemäß der Maschinenrichtlinie 2006/42/EG festgestellt ist.

Erstmalige CE-Markierung: 2004-10



Appendix: Components List
Anhang: Komponentenliste

890CA Frame B – Common Bus Adapter Order Code

	Block 1	Block 2	Block 3	Block 4
Order Example	890CA	53 2500 B 0	R 00	U
Family	890 Common Bus Adapter	890CA		
Rating	Supply	Current Rating	Frame Size	
	400/500v 3ph	50.0	B	53 2500 B
		80.0	B	2800 B
Auxiliary Supply	None			0
Hardware feature	None (80 Amp build only)			0
	Ride Through Capacitors (50 Amp build only)			R
Special Option	None			00
Destination	English (50Hz/60Hz)			U

890CM Series Order Code

	Block 1	Block 2	Block 3	Block 4	Block 5
Order Example	890CM	A	US	00	00
Family	890CM Control Module	890CM			
SW Performance	Advanced	A			
	High	H			
Destination	UK		UK		
	US		US		
Livery	SSD			0	
	DC Output (Power Cube)			DC	
Special Option	None				00
	Conformal Coating				10

890CS Series Product Order Code

	Block 1	Block 2	Block 3	Block 4
Order Example	890CS			
Family	890 Common Bus Supply	890CS		
Rating	Supply	Current Rating	Frame Size	
	400/500v 3ph	32.0	B	53 2320 B
		54.0	B	2540 B
		108.0	D	3108 D
		162.0	D	3162 D
Auxiliary supply	None			0
Brake Switch	Fitted			B
Special Option	None			00
Destination	English (50Hz/60Hz)			U



890CD Series (320V & 560V/650V DC Supply) Product Order Code

Order Example		Block 1	Block 2	Block 3	Block 4	
Family	890 Common Bus Drive	890CD	23 1300 B 0	0 00	2 A 0 0 0	
Rating Data	Induction Motor 230v ratings					
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Servo Mode)	Notes Frame Size
	320v DC	0.55	3.0	0.75		B 23
		1.1	5.5	1.5		B 1300 B
		1.5	7.0	2.0		B 1550 B
		2.2	11.0	3.0		B 1700 B
		4.0	16.5	5.0		B 2110 B
		5.5	24.0	7.5		C 2165 B
		7.5	30.0	10		C 2240 C
						C 2300 C
	Induction Motor 400v ratings					
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Servo Mode)	Notes Frame Size
	560/650v DC	37	73	50	73	E 43
		45	87	60	87	E 2730 E
	55	105	75	100	F 2870 E	
	75	145	100	130	F 3105 F	
	90	180	125	156	F 3145 F	
	90	180	150	180	F 3156 F	
					F 3180 F	
Auxiliary supply	Not required (frames B-E)				0	
	115v 1ph (Frame F only)				1	
	230v 1ph (Frame F only)				2	
Brake Switch	Not Fitted (mandatory for 890CD products)				0	
Special Option	None				00	
	Active Front End ('Y' caps removed - Frames E to F only)				07	
Performance Level	Advanced				1	
	High				2	
Destination	English (50Hz)					A
	English (60Hz)					B
Option F	None				0	
	SinCos Encoder (Endat 2.1)				1	
	Incr. Quadr. Encoder				3	
	Resolver				5	
	Resolver Repeater				6	
	Mark Registration (Endat 2.1 Encoder) - with restricted functionality				7	
Option A	Not fitted				0	
	CanOpen Comms				N	
	ControlNet Comms				C	
	DeviceNet				D	
	EtherNet /IP				H	
	Modbus TCP/IP				T	
	Profibus Comms				P	
	Mark Registration (Endat 2.1 Encoder) with restricted functionality					
	Profinet					
Rs485				7		
Option B	Not fitted				0	
	Firewire 1394A				A	
	Special peer-peer protocol (may only be fitted when CanOpen or DeviceNet option is not fitted in slot A)				X	



890CD Series (560V/705V DC Supply) Product Order Code

Order Example		Block 1	Block 2	Block 3	Block 4																																																																																																																																
Family	890 Common Bus Drive	890CD	53 1200 B 0	0 00	2 A 0 0 0																																																																																																																																
Rating Data	560/705v DC		53																																																																																																																																		
	<table border="1"> <thead> <tr> <th>Supply</th> <th colspan="2">Induction Motor 400v ratings</th> <th colspan="2">Induction Motor 460v ratings</th> <th>Output Current (Servo Mode)</th> <th>Notes</th> <th>Frame Size</th> </tr> <tr> <th>kW</th> <th>Output Current (Vector Mode)</th> <th>HP</th> <th>Output Current (Vector Mode)</th> <th>HP</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>0.55</td><td>2.0</td><td>0.75</td><td>2.0</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>1.1</td><td>3.5</td><td>1.5</td><td>3.5</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>1.5</td><td>4.5</td><td>2.0</td><td>4.5</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>2.2</td><td>6.0</td><td>3.0</td><td>5.0</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>4.0</td><td>10.0</td><td>5.0</td><td>8.0</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>5.5</td><td>12.0</td><td>7.5</td><td>12.0</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>7.5</td><td>16.0</td><td>10.0</td><td>14.0</td><td></td><td></td><td></td><td>B</td></tr> <tr><td>7.5</td><td>16.0</td><td>10.0</td><td>14.0</td><td></td><td>30% more peak</td><td></td><td>B</td></tr> <tr><td>11.0</td><td>24.0</td><td>15.0</td><td>24.0</td><td></td><td></td><td></td><td>C</td></tr> <tr><td>15.0</td><td>30.0</td><td>20.0</td><td>30.0</td><td></td><td></td><td></td><td>C</td></tr> <tr><td>15.0</td><td>30.0</td><td>20.0</td><td>30.0</td><td></td><td>30% more peak</td><td></td><td>C</td></tr> <tr><td>18.5</td><td>39.0</td><td>25.0</td><td>35.0</td><td></td><td></td><td></td><td>D</td></tr> <tr><td>22.0</td><td>45.0</td><td>30.0</td><td>40.0</td><td></td><td></td><td></td><td>D</td></tr> <tr><td>30.0</td><td>59.0</td><td>40.0</td><td>52.0</td><td></td><td></td><td></td><td>D</td></tr> </tbody> </table>	Supply	Induction Motor 400v ratings		Induction Motor 460v ratings		Output Current (Servo Mode)	Notes	Frame Size	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	HP				0.55	2.0	0.75	2.0				B	1.1	3.5	1.5	3.5				B	1.5	4.5	2.0	4.5				B	2.2	6.0	3.0	5.0				B	4.0	10.0	5.0	8.0				B	5.5	12.0	7.5	12.0				B	7.5	16.0	10.0	14.0				B	7.5	16.0	10.0	14.0		30% more peak		B	11.0	24.0	15.0	24.0				C	15.0	30.0	20.0	30.0				C	15.0	30.0	20.0	30.0		30% more peak		C	18.5	39.0	25.0	35.0				D	22.0	45.0	30.0	40.0				D	30.0	59.0	40.0	52.0				D				
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890SD Series (230V & 400V/460V AC Supply) Product Order Code

							Block 1	Block 2	Block 3	Block 4				
Order Example							890SD	23 1300 B 0	B 00	2 A 0 0 0				
Family	890 Standalone Drive						890SD							
Rating Data	Induction Motor 230v ratings							23	1300 B	0				
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Servo Mode)	Notes	Frame Size							
	230v 3ph	0.55	3.0	0.75			B							
		1.1	5.5	1.5			B							
		1.5	7.0	2.0			B							
		2.2	11.0	3.0			B							
		4.0	16.5	5.0			B							
		5.5	24.0	7.5			C							
		7.5	30.0	10			C							
	Induction Motor 400v ratings										43	2730 E	0	
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes							Frame Size
	400/460v 3ph	37	73	50	73		E							
		45	87	60	87		E							
		55	105	75	100		F							
		75	145	100	130		F							
	90	180	125	156		F								
	90	180	150	180		F								
Induction Motor 460v ratings							43	2870 E	0					
Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes				Frame Size				
400/460v 3ph	37	73	50	73		E								
	45	87	60	87		E								
	55	105	75	100		F								
	75	145	100	130		F								
	90	180	125	156		F								
	90	180	150	180		F								
Auxiliary supply	Not required (frames B-E)									0				
	115v 1ph (Frame F only)									1				
	230v 1ph (Frame F only)									2				
Brake Switch	Brake switch fitted										B			
Special Option	None											00		
	Active Front End ('Y' caps removed - Frames E to F only)											07		
	Documented special options (01-99)													
Performance Level	Advanced								1					
	High								2					
Destination	English (50Hz)								A					
	English (60Hz)								B					
Option F	None								0					
	SinCos Encoder (Endat 2.1)								1					
	Incr. Quadr. Encoder								3					
	Resolver								5					
	Resolver Repeater								6					
	Mark Registration (Endat 2.1 Encoder) - with restricted functionality								7					
Option A	Not fitted								0					
	CanOpen Comms								N					
	ControlNet Comms								C					
	DeviceNet								D					
	EtherNet /IP								H					
	Modbus TCP/IP								T					
	Profibus Comms								P					
	Mark Registration (Endat 2.1 Encoder) with restricted functionality													
	Profinet													
	Rs485								7					
Option B	Not fitted								0					
	Firewire 1394A								A					
	Special peer-peer protocol (may only be fitted when CanOpen or DeviceNet option is not fitted in slot A)								X					



890SD Series (400V/500V AC Supply) Product Order Code

Order Example		Block 1	Block 2	Block 3	Block 4						
		890SD	53 1200 B 0	B 00	2 A 0 0 0						
Family	890 Standalone Drive										
		890SD									
		Induction Motor 400v ratings		Induction Motor 460v ratings							
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	Frame Size			
Rating Data	400/500v 3ph								53		
		0.55	2.0	0.75	2.0			B	1200	B	
		1.1	3.5	1.5	3.5			B	1350	B	
		1.5	4.5	2.0	4.5			B	1450	B	
		2.2	6.0	3.0	5.0			B	1600	B	
		4.0	10.0	5.0	8.0			B	2100	B	
		5.5	12.0	7.5	12.0			B	2120	B	
		7.5	16.0	10.0	14.0			B	2160	B	
		7.5	16.0	10.0	14.0		30% more peak	B	216S	B	
		11.0	24.0	15.0	24.0			C	2240	C	
		15.0	30.0	20.0	30.0			C	2300	C	
		15.0	30.0	20.0	30.0		30% more peak	C	230S	C	
		18.5	39.0	25.0	35.0			D	2390	D	
		22.0	45.0	30.0	40.0			D	2450	D	
		30.0	59.0	40.0	52.0			D	2590	D	
		Induction Motor 400v/500v ratings									
	Supply	kW	Output Current (Vector Mode)	Output Current (Vector Mode)	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	Frame Size			
	400/500v 3ph								53		
		37	67					E	2730	E	
		45	79					E	2870	E	
		55	100					F	3105	F	
		75	125					F	3145	F	
		90	156					F	3156	F	
Auxiliary supply	Not required (frames B-E)									0	
	115v 1ph (Frame F-J only)									1	
	230v 1ph (Frame F-J only)									2	
Brake Switch	Not Fitted (optional Frame G-J only)									0	
	Brake switch fitted (mandatory Frame B-F, optional Frame G-J)									B	
Special Option	None									00	
	Active Front End ('Y' caps removed - Frames E to J only)									07	
	Documented special options (01-99)										
Performance Level	Advanced									1	
	High									2	
Destination	English (50Hz)									A	
	English (60Hz)									B	
Option F	None									0	
	SinCos Encoder (Endat 2.1)									1	
	Incr. Quadr. Encoder									3	
	Resolver									5	
	Resolver Repeater									6	
	Mark Registration (Endat 2.1 Encoder) - with restricted functionality									7	
Option A	Not fitted									0	
	CanOpen Comms									N	
	ControlNet Comms									C	
	DeviceNet									D	
	EtherNet/IP									H	
	Modbus TCP/IP									T	
	Profibus Comms									P	
	Mark Registration (Endat 2.1 Encoder) with restricted functionality										
	Profinet										
	Rs485									7	
Option B	Not fitted									0	
	Firewire 1394A									A	
	Special peer-peer protocol (may only be fitted when CanOpen or DeviceNet option is not fitted in slot A)									X	