

Understanding the Product Code

Manufacturing Product Code

The unit is fully identified using an alphanumeric code which records how the Drive was calibrated, its various settings when despatched from the factory, and the country of origin.

The Product Code appears as the “Model No”. Each block of the Product Code is identified as below.

890CA Frame B – Common Bus Adaptor

	Block 1	Block 2	Block 3	Block 4
	890CA	-		
Example:	890CA	- 53 2500 B 0	- R 00	- U
Family	890 <u>C</u> ommon Bus <u>A</u> aptor	890CA		
Rating	Supply 400/500v 3ph	Current Rating 50.0 80.0	Frame Size B B	53 2500 B 2800 B
Auxiliary Supply	None			0
Hardware feature	None (80 Amp build only)			0
	<u>R</u> ide Through Capacitors (50 Amp build only)			R
Special Option	None			00
Destination	English (50Hz/60Hz)			U

E-3 Technical Specifications

890CS Frames B & D – Common Bus Supply

	Block 1	Block 2	Block 3	Block 4
	Example: 890CS - 53 2320 B 0 - B 00 - U			
Family	890 <u>C</u> ommon Bus <u>S</u> upply		890CS	
Rating	Supply 400/500v 3ph	Current Rating	Frame Size	53
		32.0	B	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 – Manufacturing Product Code

		Example: 890CD - 23 1300 B 0 - 0 00 - 1 A 0 0 0						
Family	890 Common Bus Drive						890CD	
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	
		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							
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	Frame Size
	560/650v DC	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
		110	216	175	216			G
		132	250	200	250			G
		160	316	250	316			G
	180	361	300	361			G	
	220	420	350	420			H	
	250	480	400	480			H	
	280	520	450	520			H	
	315	590	500	590			J	
Induction Motor 400v ratings								
Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	Frame Size	
560/705v DC	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	
Induction Motor 400v/500v ratings								
Supply	kW	Output Current (Vector Mode)	HP	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	Frame Size	
560/705v DC	37	67					E	
	45	79					E	
	55	100					F	
	75	125					F	
	90	156					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 (mandatory for 890CD products)						0	
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	
	Line Synchronisation						L	
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						7	
	RS485						S	
	EtherCAT						K	
	Analogue Input Option (if fitted in slot A cannot be fitted in slot B)						R	
	Encoder Option (if fitted in slot A cannot be fitted in slot B)						E	
Option B	Not fitted						0	
	Firewire 1394A						A	
	Special peer-peer protocol (may only be fitted when CanOpen or DeviceNet option is <u>not</u> fitted in slot A)						X	
	Analogue Input Option (if fitted in slot B cannot be fitted in slot A)						R	
	Encoder Option (if fitted in slot B cannot be fitted in slot A)						E	

E-5 Technical Specifications

890SD - Manufacturing Product Code

Family		Example: 890SD - 23 1300 B 0 - 0 37 - 1 A 0 0 0						890SD
Rating Data	Induction Motor 230v ratings							
	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							
	Supply	kW	Output Current (Vector Mode)	HP	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	
		110	216	175	216		G	
		132	250	200	250		G	
		160	316	250	316		G	
		180	361	300	361		G	
		200	375		375		H	
		220	420	350	420		H	
		250	480	400	480		H	
		280	520	450	520		H	
		315	590	500	590		J	
	Induction Motor 460v ratings							
	Supply	kW	Output Current (Vector Mode)	HP	Output Current (Servo Mode)	Notes	Frame Size	
	400/500v 3ph	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	
	Induction Motor 400v/500v ratings							
	Supply	kW	Output Current (Vector Mode)	Output Current (Vector Mode)	Output Current (Vector Mode)	Output Current (Servo Mode)	Notes	
	400/500v 3ph	37	67				E	
		45	79				E	
		55	100				F	
		75	125				F	
		90	156				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
	Line Synchronisation							L
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							7
	RS485							S
	EtherCAT							K
	Analogue Input Option (If fitted in slot A cannot be fitted in slot B)							R
	Encoder Option (If fitted in slot A cannot be fitted in slot B)							E
Option B	Not fitted							0
	Firewire 1394A							A
	Special peer-peer protocol (may only be fitted when CanOpen or DeviceNet option is <u>not</u> fitted in slot A)							X
	Analogue Input Option (If fitted in slot B cannot be fitted in slot A)							R
	Encoder Option (If fitted in slot B cannot be fitted in slot A)							E