Understanding option codes

Option codes exist on drives that have factory-installed options. These options are usually the insertion of electronic boards but they may also include mechanical changes. Drives with option codes will have a "-Z" at the end of the order number (i.e. 6SE7016-1EA51-Z) followed by the appropriate code(s) on the following lines (i.e. C43+).

Drives that have option boards installed, but do not show option codes on the rating plates, were shipped from the factory as basic drives and then customized by an OEM, systems integrator or the end-user. The part number from the installed board will need to be noted.

Please refer to the chart below to see a detailed list of option boards and mechanical options, their option codes and spare part ordering numbers.

Electronic options for MASTERDRIVES vector control				Compact PLUS only		Only for Compact and Chassis Units				
Description	Designation	Spare part order number	Position 1			Position 2		Position 3		
			Slot A	Slot B	Slot C	Slot D	Slot E	Slot F	Slot G	
Expansion I/O Board 1	EB1	6SX7010-0KB00	G61	G62	G63	G64	G65	G66	G67	
Expansion I/O Board 2	EB2	6SX7010-0KC00	G71	G72	G73	G74	G75	G76	G77	
Simolink Fiber Optic Communication Board	SLB	6SX7010-0FJ00	G41	G42	G43	G44	G45	G46	G47	
Profibus Communication Board	CBP2	6SX7010-0FF05	G91	G92	G93		G95		G97	
CANbus Communication Board	CBC	6SX7010-0FG00	G21	G22	G23		G25		G27	
Pulse Encoder Feedback Board	SBP	6SX7010-0FA00	C11	C12	C13	C14	C15	C16	C17	
Local Bus Adapter	LBA	6SE7090-0XX84-4HA0				K11				
Adapter Board	ADB	6SE7090-0XX84-0KA0				K01		K02		
Vector Control — standard board for basic unit	CUVC	6SE7090-0XX84-0AB0								

Electronic options for MASTERDRIVES motion control				Compact PLUS only	Motor Encoder only	Only for Compact and Chassis Units			
Description	Designation	Spare part order number	Position 1			Position 2		Position 3	
			Slot A	Slot B	Slot C	Slot D	Slot E	Slot F	Slot G
Expansion I/O Board 1	EB1	6SX7010-0KB00	G61	G62		G64	G65	G66	G67
Expansion I/O Board 2	EB2	6SX7010-0KC00	G71	G72		G74	G75	G76	G77
Simolink Fiber Optic Communication Board	SLB	6SX7010-0FJ00	G41	G42		G44	G45	G46	G47
Profibus Communication Board	CBP2	6SX7010-0FF05	G91	G92			G95		G97
CANbus Communication Board	CBC	6SX7010-0FG00	G21	G22			G25		G27
Pulse Encoder Feedback Board	SBP	6SX7010-0FA00	C11	C12	C13	C14	C15	C16	C17
Resolver Feedback Board without simulation	SBR1	6SX7010-0FB00			C23				
Resolver Feedback Board with simulation	SBR2	6SX7010-0FC00			C33				
Absolute Encoder Feedback Board	SBM2	6SX7010-0FE00	C41	C42	C43	C44	C45	C46	C47
Local Bus Adapter	LBA	6SE7090-0XX84-4HA0				K11			
Adapter Board	ADB	6SE7090-0XX84-0KA0				K01		K02	
Synchronism, Positioning and Camming FW	F01	6SW1700-5AD00-1XX0							
Motion Control — standard board without F01	CUMC	6SE7090-0XX84-0AD1							
Motion Control — standard board with F01	CUMC	6SE7090-0XX84-0AD1Z							
Motion Control Performance 2 - standard board	CUPM	6SE7090-0XX84-0AD5							

O = Option Available; S=Standard; N/A=Not Available	Option code	Converter frame sizes				Inverter frame sizes				Rectifier frame sizes			
Mechanical options		P	A-D	E-G	K	P	A-D	E-G	J-M	P	B-C	E	H-K
Operation of a converter with non-grounded AC supply	L20	O	O	O	S	S	S	S	S	S	S	S	S
Inverter fuses integrated inside of drive	L30	N/A	N/A	N/A	N/A	S	S	O	S	N/A	N/A	N/A	N/A
Compact inverters without internal DC link fuses	L33	N/A	N/A	N/A	N/A	N/A	O	S	N/A	N/A	N/A	N/A	N/A
Safe Stop Option board installed	K80	0	N/A	O	O	O	S	O	O	N/A	N/A	N/A	N/A
Front cover for chassis drives to increase protection level to IP20	M20	S	S	O	N/A	S	S	O	N/A	S	S	O	N/A

P = Compact Plus frame size P (0.55 - 37kW)
A-D = Compact Frame Sizes A, B, C and D (2.2 - 37 kW)
E-G = Chassis Frame Sizes E, F and G
K = Large Chassis Converter Frame Sizes
J-M = Large Chassis Inverter Frame Sizes J, K, L, M and Q