MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SX7010-0FA00

INCREMENTAL ENCODER RETROFIT KIT

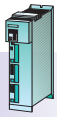
Used with the applicable SIMOVERT MASTERDRIVES configuration.

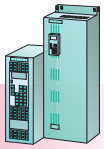
REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6SX7010-0FA00 technical data and applicable product instructions





Electronics options · Board/slot preconfiguration[1])

Designation		Order No.	Supplementary order code[6])	Weight, approx. kg (lb)	Dimensions W x H x D mm x mm x mm (in x in x in)
Encoder boards (An encoder board must always be ordered. Exception: *V/f* control)					
SBP	Incremental-encoder evaluation HTL/TTL (Impuls-encoder evaluation)				
	Spare part[2])	**6SE7090–0XX84–0FA0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FA00**			
	Plugged into slot A[4])		**C11**		
	Plugged into slot B[4])	**(only for Compact PLUS units!)**	**C12**		
	Plugged into slot C[4])	(motor encoder)	**C13**		
	Plugged into slot D[4])	(only for compact and chassis units)	**C14**		
	Plugged into slot E[4])		**C15**		
	Plugged into slot F[4])		**C16**		
	Plugged into slot G[4])		**C17**		
SBR1	Resolver evaluation without incremental-encoder simulation				
	Spare part[2])	**6SE7090–0XX84–0FB0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FB00**			
	Plugged into slot C[4])		**C23**		
SBR2	Resolver evaluation with incremental-encoder simulation				
	Spare part[2])	**6SE7090–0XX84–0FC0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FC00**			
	Plugged into slot C[4])		**C33**		
SBM	Absolute-value encoder evaluation/incremental-encoder evaluation sin/cos 1 Vpp (only as spare part for existing systems)				
	Spare part[2])	**6SE7090–0XX84–0FD0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
SBM2	Absolute-value encoder evaluation/incremental-encoder evaluation sin/cos 1 Vpp (MC firmware versions ≥ 1.3)				
	Spare part[2])	**6SE7090–0XX84–0FE0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FE00**			
	Plugged into slot C[4]) (motor encoder)		**C43**		
	Plugged into slots A, B, D, E, F, G[4]) (machine encoder)		**C41/C42/C44 to C47**		
Expansion boards					
EB1	Expansion board				
	Spare part[2])	**6SE7090–0XX84–0KB0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0KB00**			
	Plugged into slots A to G[4])		**G61 to G67**		
EB2	Expansion board				
	Spare part[2])	**6SE7090–0XX84–0KC0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0KC00**			
	Plugged into slots A to G		**G71 to G77**		
Drive coupling (rapid data exchange via fiber-optic cable)					
SLB	for SIMOLINK				
	Spare part[2])	**6SE7090–0XX84–0FJ0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])[5])	**6SX7010–0FJ00**			
	Plugged into slots A to G[4])[5])		**G41 to G47**		
Communication boards (for slot location, see page 6/60)					
CBP2	for PROFIBUS DP				
	Spare part[2])	**6SE7090–0XX84–0FF5**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FF05**			
	Plugged into slots A, B, C, E, G		**G91/G92/G93/G95/G97**		
CBC	for CAN				
	Spare part[2])	**6SE7090–0XX84–0FG0**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)
	Retrofit kit[3])	**6SX7010–0FG00**			
	Plugged into slots A, B, C, E, G		**G21/G22/G23/G25/G27**		
CBD	**C**ommunication **B**oard **D**eviceNet for DeviceNet	**6SX7010–0FK00**		0.3 (0.7)	20 x 90 x 95 (0.8 x 3.5 x 3.7)

1) The Compact PLUS units have three slots A, B and C. Compact and chassis units can be expanded to have up to 6 slots, A, C, D, E, F and G. For the various possible configurations, see Page 6/61.

2) Excluding connector, excluding documentation.

3) For retrospective mounting. The retrofit kit usually contains a board, plug-in connector and documentation but not adapter boards or LBA (see Page 3/8).

4) With appropriate connector.

5) With 2 FOC connectors, 1 connector for X470 and 5 m all-plastic FOC (fiber-optic cable).

6) When ordering the board, **"–Z"** and the corresponding code for direct mounting in the corresponding slot must be appended to the converter/inverter order no.