

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6ES7516-3FN02-0AB0

Siemens official documentation for the exact article number.

Source: 6ES7516-3FN02-0AB0.pdf

Selected official Siemens pages follow this cover.

CPU with firmware version V2.1.0 or higher	Hardware function version	Article number	Max. retentive memory
CPU 1511C-1 PN	FS01 or higher	6ES7511-1CK00-0AB0	1 MB
		6ES7511-1CK01-0AB0	
		6ES7511-1CL03-0AB0	1.5 MB
CPU 1512C-1 PN	FS01 or higher	6ES7512-1CK00-0AB0	1 MB
		6ES7512-1CK01-0AB0	
		6ES7512-1CM03-0AB0	2 MB
CPU 1513-1 PN	FS01 or higher	6ES7513-1AL01-0AB0	1.5 MB
		6ES7513-1AL02-0AB0	
		6ES7513-1AM03-0AB0	2.5 MB
CPU 1513F-1 PN	FS01 or higher	6ES7513-1FL01-0AB0	1.5 MB
		6ES7513-1FL02-0AB0	
		6ES7513-1FM03-0AB0	2.5 MB
CPU 1515-2 PN	FS01 or higher	6ES7515-2AM01-0AB0	3 MB
		6ES7515-2AM02-0AB0	
		6ES7515-2AN03-0AB0	4.5 MB
CPU 1515F-2 PN	FS01 or higher	6ES7515-2FM01-0AB0	3 MB
		6ES7515-2FM02-0AB0	
		6ES7515-2FN03-0AB0	4.5 MB
CPU 1515T-2 PN	FS01 or higher	6ES7515-2TM01-0AB0	3 MB
		6ES7515-2TN03-0AB0	4.5 MB
CPU 1515TF-2 PN	FS01 or higher	6ES7515-2UM01-0AB0	3 MB
		6ES7515-2UN03-0AB0	4.5 MB
CPU 1516-3 PN/DP	FS01 or higher	6ES7516-3AN01-0AB0	5 MB
		6ES7516-3AN02-0AB0	
		6ES7516-3AP03-0AB0	7.5 MB
CPU 1516F-3 PN/DP	FS01 or higher	6ES7516-3FN01-0AB0	5 MB
		6ES7516-3FN02-0AB0	
		6ES7516-3AP03-0AB0	7.5 MB
CPU 1516T-3 PN	FS01 or higher	6ES7516-3TP10-0AB0	15 MB
CPU 1516T-3 PN/DP	FS01 or higher	6ES7516-3TN00-0AB0	5 MB
CPU 1516TF-3 PN	FS01 or higher	6ES7516-3UP10-0AB0	15 MB
CPU 1516TF-3 PN/DP	FS01 or higher	6ES7516-3UN00-0AB0	5 MB
CPU 1517-3 PN	FS01 or higher	6ES7517-3AQ10-0AB0	50 MB
CPU 1517-3 PN/DP	FS03 or higher	6ES7517-3AP00-0AB0	8 MB
CPU 1517F-3 PN	FS01 or higher	6ES7517-3FQ10-0AB0	50 MB
CPU 1517F-3 PN/DP	FS03 or higher	6ES7517-3FP00-0AB0	8 MB
	FS01 or higher	6ES7517-3FP01-0AB0	
CPU 1517T-3 PN	FS01 or higher	6ES7517-3TQ10-0AB0	50 MB
CPU 1517T-3 PN/DP	FS01 or higher	6ES7517-3TP00-0AB0	8 MB
CPU 1517TF-3 PN	FS01 or higher	6ES7517-3UQ10-0AB0	50 MB
CPU 1517TF-3 PN/DP	FS01 or higher	6ES7517-3UP00-0AB0	8 MB

C.2 CPUs

CPU	Article number	Ambient temperature		Installation altitude	
		Temperature range [°C]	As of version	Max. altitude [m]	As of version
CPU 1515F-2 PN	6ES7515-2FM02-0AB0	-25 to +60	FS 01	5 000	FS 01
CPU 1515F-2 PN	6ES7515-2FN03-0AB0	-30 to +60	FS 01	5 000	FS 01
CPU 1515TF-2 PN	6ES7515-2UM01-0AB0	0 to +60	FS 03	5 000	FS 03
CPU 1515TF-2 PN	6ES7515-2UN03-0AB0	-30 to +60	FS 01	5 000	FS 01
CPU 1516F-3 PN/DP	6ES7516-3FN01-0AB0	0 to +60	FS 01	5 000	FS 03
CPU 1516F-3 PN/DP	6ES7516-3FN02-0AB0	-25 to +60	FS 01	5 000	FS 01
CPU 1516F-3 PN/DP	6ES7516-3FP03-0AB0	-30 to +60	FS 01	5 000	FS 01
CPU 1516TF-3 PN	6ES7516-3UP10-0AB0	0 to +60	FS 01	5 000	FS 01
CPU 1516TF-3 PN/DP	6ES7516-3UN00-0AB0	0 to +60	FS 05	5 000	FS 05
CPU 1517F-3 PN	6ES7517-3FQ10-0AB0	0 to +60	FS 01	5 000	FS 01
CPU 1517F-3 PN/DP	6ES7517-3FP00-0AB0	0 to +60	FS 01	5 000	FS 05
CPU 1517F-3 PN/DP	6ES7517-3FP01-0AB0	-30 to +60	FS 01	5 000	FS 01
CPU 1517TF-3 PN	6ES7517-3UQ10-0AB0	0 to +60	FS 01	5 000	FS 01
CPU 1517TF-3 PN/DP	6ES7517-3UP00-0AB0	0 to +60	FS 04	5 000	FS 05
CPU 1518F-3 PN	6ES7518-3FT10-0AB0	0 to +60	FS 01	5 000	FS 01
CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0	0 to +60	FS 01	5 000	FS 05
CPU 1518F-4 PN/DP ODK	6ES7518-4FP00-3AB0	0 to +60	FS 04	5 000	FS 05
CPU 1518F-4 PN/DP MFP	6ES7518-4FX00-1AB0	0 to +60	FS 01	5 000	FS 01
CPU 1518TF-3 PN	6ES7518-3UT10-0AB0	0 to +60	FS 01	5 000	FS 01
CPU 1518TF-4 PN/DP	6ES7518-4UP00-0AB0	0 to +60	FS 10	5 000	FS 10

PFDavg and PFH values for F-CPU's for operating altitudes up to 3 000 m or 5 000 m.

Below you will find the probability of failure values (PFDavg and PFH values) for the fail-safe CPUs mentioned in the table with a service life of 20 years and with a repair time of 100 hours:

Operation in low demand mode in accordance with IEC 61508:2010: PFDavg = Average probability of a dangerous failure on demand	Operation in high demand or continuous mode in accordance with IEC 61508:2010: PFH = Average frequency of a dangerous failure [h ⁻¹]
< 2E-05	< 1E-09 at an installation altitude ≤ 3 000 m < 2E-09 at an installation altitude > 3 000 m to 5 000 m