6ES7317-6TK13-0AB0

Data sheet



Spare part SIMATIC S7-300, CPU 317T-2 DP, Central processing unit for PLC and Technology tasks, 1024 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP (drive), Integr. I/O for technology Front connector (1x 40-pole) and Micro Memory Card min. 8 MB required

General information	
Product type designation	CPU 317T-2 DP
HW functional status	01
Firmware version	CPU: V2.7, integrated technology: V4.1.5
Engineering with	
Programming package	STEP 7 V5.4 + SP5 (and higher) and Optional package S7-Technology V4.2
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Load voltage L+	
 Rated value (DC) 	24 V
 Reverse polarity protection 	Yes
Digital outputs	
— Rated value (DC)	24 V; (2L+)
 Reverse polarity protection 	No; (2L+)
Input current	
Current consumption (in no-load operation), typ.	200 mA
Inrush current, typ.	2.5 A
I ² t	1 A ² ·s
Power loss	
Power loss, typ.	6 W
Memory	
Work memory	
integrated	1 024 kbyte
expandable	No
Load memory	
Plug-in (MMC)	Yes
Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 a
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.05 µs
for bit operations, max.	0.05 µs
for word operations, typ.	0.2 μs
for fixed point arithmetic, typ.	0.2 µs

for floating point arithmetic, typ.	1 µs
PU-blocks	
Number of blocks (total)	2 048; (DBs, FCs, FBs); the maximum number of loadable blocks can be
DB	reduced by the MMC used.
Number, max.	2 047; Number band: 1 to 2047
• Size, max.	64 kbyte
FB	04 hbyte
Number, max.	2 048; Number range: 0 to 2047
• Size, max.	64 kbyte
FC	
Number, max.	2 048; Number range: 0 to 2047
• Size, max.	64 kbyte
OB	
Number, max.	see instruction list
Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
Number of delay alarm OBs	2; OB 20, 21
Number of cyclic interrupt OBs	4; OB 32, 33, 34, 35
Number of process alarm OBs	1; OB 40
 Number of DPV1 alarm OBs 	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61
 Number of technology synchronous alarm OBs 	1; OB 65
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	5; OB 80, 82, 85, 86, 87
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
per priority class	16
 additional within an error OB 	4
ounters, timers and their retentivity	
S7 counter	
Number	512; Number range: 0 to 511
Retentivity	
— adjustable	Yes
— preset	8
Counting range	
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	512; Number range: 0 to 511
Retentivity	
— adjustable	Yes
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
ata areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	256 kbyte
Flag	
• Size, max.	4 096 byte
Retentivity available	Yes; From MB 0 to MB 4 095

 Retentivity preset Number of clock memories Data blocks Retentivity adjustable 	MB 0 to MB 15 8; 1 memory byte
Data blocks	8, 1 memory byte
Retentivity adjustable	V
	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	40044
per priority class, max.	1 024 byte
Address area	
I/O address area	
• Inputs	8 192 byte
Outputs	8 192 byte
of which distributed	
— Inputs	8 192 byte
— Outputs	8 192 byte
Process image	
Inputs, adjustable	2 048 byte
 Outputs, adjustable 	2 048 byte
 Inputs, default 	256 byte
Outputs, default	256 byte
Default addresses of the integrated channels	
— Digital inputs	66
— Digital outputs	66
Subprocess images	
 Number of subprocess images, max. 	1
Digital channels	
Inputs	65 536
— of which central	512
Outputs	65 536
— of which central	512
Analog channels	
• Inputs	4 096
— of which central	64
 Outputs 	4 096
— of which central	64
Hardware configuration	
Number of expansion units, max.	0
Number of DP masters	
• integrated	2; 1 DP and 1 DP (drive)
• via CP	2; for DP
Number of operable FMs and CPs (recommended)	2,10.5.
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
• Racks, max.	1
Modules per rack, max.	8
• Modules per rack, max. Time of day	
Clock	Voo
Hardware clock (real-time) retentive and symphospirable	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s
Operating hours counter	
Number	4
Number/Number range	0 to 3
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
supported	Yes

• to MPI, master	Yes
• on MPI, device	Yes
• to DP, master	Yes
 on DP, device 	Yes
• in AS, master	Yes
• in AS, device	Yes
Digital inputs	
Number of digital inputs	4
of which inputs usable for technological functions	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	4
— up to 60 °C, max.	4
vertical installation	
— up to 40 °C, max.	4
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for technological functions	
— at "0" to "1", max.	10 μs; Typical
— at "1" to "0", max.	10 μs; Typical
Cable length	
shielded, max.	1 000 m
Digital outputs	
Number of digital outputs	8
 of which high-speed outputs 	8
Functions	for technology functions, e.g. high-speed cam switch signals
Short-circuit protection	Yes
Short-circuit protection • Response threshold, typ.	Yes 1 A
Response threshold, typ.	1 A
Response threshold, typ. Limitation of inductive shutdown voltage to	1 A 48 V
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input	1 A 48 V
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs	1 A 48 V No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max.	1 A 48 V No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range	1 A 48 V No 5 W
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit	1 A 48 V No 5 W
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit	1 A 48 V No 5 W
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage	1 A 48 V No 5 W 48 Ω 4 kΩ
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+)
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+)
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value	1 A 48 V No No 5 W 48Ω $4 \text{ k}\Omega$ 3 V; (2L+) Rated voltage -2.5 V
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for redundant control of a load Switching frequency	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs (per group)	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No No
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs (per group) horizontal installation	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No No 100 Hz 0.2 Hz; According to IEC 60947-5-1, DC-13 100 Hz
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. Load resistance range lower limit upper limit Output voltage for signal "0", max. for signal "1", min. Output current for signal "1" permissible range for 0 to 60 °C, min. for signal "1" permissible range for 0 to 60 °C, max. for signal "0" residual current, max. Parallel switching of two outputs for uprating for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. on lamp load, max. Total current of the outputs (per group) horizontal installation — up to 40 °C, max.	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No No 100 Hz 0.2 Hz; According to IEC 60947-5-1, DC-13 100 Hz 4 A
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs	1 A 48 V No 5 W 48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA No No No 100 Hz 0.2 Hz; According to IEC 60947-5-1, DC-13 100 Hz

— up to 40 °C, max.	3 A
— up to 40 °C, max.	
• shielded, max.	1 000 m
Analog inputs	
Number of analog inputs	0
Encoder	
Connectable encoders	
• 2-wire sensor	No
Interfaces	
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes
Point-to-point connection	No
MPI	22
Number of connections Transmission rate, may	32 12 Mbit/s
Transmission rate, max. Services	12 IVIUIVS
— PG/OP communication	Yes
— Routing	Yes
Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes
 S7 communication, as client 	No; but via CP and loadable FB
— S7 communication, as server	Yes; Connection configured on one side only
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s
• max. number of DP devices	124
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes No; but via CP and loadable FB
— S7 communication, as client	
— S7 communication, as server— Equidistance	Yes; Connection configured on one side only Yes
Equidistance Isochronous mode	Yes; OB 61
— SYNC/FREEZE	Yes
activation/deactivation of DP devices	Yes
— DPV1	Yes
Address area	
— Inputs, max.	8 192 byte
— Outputs, max.	8 192 byte
User data per DP device	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
1st interface / PROFIBUS DP device / header	
Transmission rate, max.	12 Mbit/s
automatic baud rate search	No
 Address area, max. 	32

User data per address area, max.	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
Global data communication	No
S7 basic communication	No
— S7 communication	Yes
S7 communication, as client	No: but via CP and loadable FB
— S7 communication, as server	Yes; Connection configured on one side only
Direct data exchange (slave-to-slave)	Yes
communication)	165
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	No
PROFIBUS DP master	Yes; DP(DRIVE)-Master
PROFIBUS DP device	No
Point-to-point connection	No
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s
max. number of DP devices	64
Services	
— PG/OP communication	No
— Routing	No
Global data communication	No
— S7 basic communication	No
— S7 communication	No
— Equidistance	Yes
— Isochronous mode	Yes
— SYNC/FREEZE	No
activation/deactivation of DP devices	Yes
— DPV1	No
Address area	
— Inputs, max.	1 024 byte
— Inputs, max. — Outputs, max.	1 024 byte
User data per DP device	1 024 Dylo
— Inputs, max.	244 byte
— Inputs, max. — Outputs, max.	244 byte
— Outputs, max. 2nd interface / PROFIBUS DP device / header	ביד טייני דיד טי
GSD file	http://support automation sigmens com in Product Support area
	http://support.automation.siemens.com in Product Support area 12 Mbit/s
Transmission rate, max. Protocols	12 IVIDIUS
	No
PROFIsafe	No
communication functions / header	Voc
PG/OP communication	Yes
Global data communication	Voc
• supported	Yes
Number of GD loops, max.	8
 Number of GD packets, max. 	8
• Number of GD packets, transmitter, max.	8
Number of GD packets, transmitter, max.Number of GD packets, receiver, max.	8
• Number of GD packets, transmitter, max.	

C7 hasis communication	
S7 basic communication	Von
• supported	Yes
User data per job, max.	76 byte
User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV), 76 bytes (with X_PUT or X_GET as server)
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes; Via CP and loadable FB
• User data per job, max.	See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)
S5 compatible communication	
• supported	Yes; via CP and loadable FC
Number of connections	
• overall	32
 usable for PG communication 	31
 reserved for PG communication 	1
 adjustable for PG communication, min. 	1
 adjustable for PG communication, max. 	31
usable for OP communication	31
— reserved for OP communication	1
 adjustable for OP communication, min. 	1
adjustable for OP communication, max.	31
usable for S7 basic communication	30
reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, max.	30
usable for routing	8; additional
S7 message functions	o, additional
	22: Depending on the configured connections for DC/OD and C7 hasis
Number of login stations for message functions, max.	32; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	60
Test commissioning functions	N/
Status block	Yes
Single step	Yes
Number of breakpoints	2
Status/control	
Status/control variable	Yes
 Variables 	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	30
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	
Forcing	Yes
 Forcing, variables 	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	100
— adjustable	No
adjustable Interrupts/diagnostics/status information	No
	No No
Interrupts/diagnostics/status information	
Interrupts/diagnostics/status information Alarms	No
Interrupts/diagnostics/status information Alarms Diagnostics function	No
Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED	No No
Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green)	No No Yes
Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation	No No Yes
Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs	No No Yes
Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation	No No Yes Yes

 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	500 V DC
Ambient conditions	
Ambient temperature during operation	
• min.	0°C
• max.	60 °C
configuration / header	
Configuration software	
• STEP 7	Yes
configuration / programming / header	
 Command set 	see instruction list
 Nesting levels 	8
 System functions (SFC) 	see instruction list
System function blocks (SFB)	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
User program protection/password protection	Yes
programming / cycle time monitoring / header	
• lower limit	1 ms
• upper limit	6 000 ms
adjustable	Yes
• preset	150 ms
Dimensions	
Width	160 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	750 g

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