6ES7315-6TH13-0AB0

Data sheet



Spare part SIMATIC S7-300, CPU 315T-2 DP, Central processing unit for PLC and Technology tasks, 256 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 315T-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
l²t	1 A²·s
Power loss	
Power loss, typ.	6 W
Memory	
Work memory	
• integrated	256 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.	0.1 μs
for bit operations, max.	0.1 µs
for word operations, typ.	0.2 µs
for fixed point arithmetic, typ.	2 μs

for floating point arithmetic, typ.	3 µs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	,
Number, max.	1 023; Number band: 1 to 1023
• Size, max.	64 kbyte
FB	
Number, max.	1 024; Number range: 0 to 2047
• Size, max.	64 kbyte
FC	
• Number, max.	1 024; 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	1; OB 20
Number of cyclic interrupt OBs	1; OB 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	8
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter • Number	256; Number range: 0 to 255
Retentivity	230, Number range. 0 to 233
·	Yes
— adjustable	
— preset Counting range	8
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
	2EC: Number range: 0 to 2EE
• Number	230. Nulliper failue. U to 233
Number Retentivity	256; Number range: 0 to 255
Retentivity	
Retentivity — adjustable	Yes
Retentivity — adjustable — preset	
Retentivity — adjustable	Yes
Retentivity — adjustable — preset Time range — lower limit	Yes No retentivity
Retentivity — adjustable — preset Time range	Yes No retentivity 10 ms
Retentivity — adjustable — preset Time range — lower limit — upper limit	Yes No retentivity 10 ms
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer	Yes No retentivity 10 ms 9 990 s
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer • present	Yes No retentivity 10 ms 9 990 s Yes SFB
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer • present • Type • Number	Yes No retentivity 10 ms 9 990 s Yes
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity	Yes No retentivity 10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity)
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes No retentivity 10 ms 9 990 s Yes SFB
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity	Yes No retentivity 10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity)

Patentivity procet	MR 0 to MR 15
Retentivity presetNumber of clock memories	MB 0 to MB 15
	8; 1 memory byte
Data blocks	Vacción and article appropriate an DD
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	10011
per priority class, max.	1 024 byte
Address area	
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
 Inputs, adjustable 	2 048 byte
 Outputs, adjustable 	2 048 byte
 Inputs, default 	128 byte
Outputs, default	128 byte
Default addresses of the integrated channels	
— Digital inputs	66
— Digital outputs	66
Subprocess images	
Number of subprocess images, max.	1
Digital channels	
• Inputs	16 384
— of which central	512
 Outputs 	16 384
of which central	512
Analog channels	
• Inputs	1 024
— of which central	64
Outputs	1 024
— of which central	64
Hardware configuration	
Number of expansion units, max.	0
Number of DP masters	
	2: 1 DD and 1 DD (drive)
• integrated	2; 1 DP and 1 DP (drive)
• via CP	2; for DP
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
Racks, max.	1
Modules per rack, max.	8
Time of day	
Clock	
Hardware clock (real-time)	Yes
 retentive and synchronizable 	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s
Operating hours counter	
Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes

- to MDI monton	Van
• to MPI, master	Yes
on MPI, device to DR, master.	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
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	48 V
Controlling a digital input	No
Switching capacity of the outputs	
	5 W
on lamp load, max.	O VV
on lamp load, max. Load resistance range	
	48 Ω
Load resistance range	
Load resistance range • lower limit	48 Ω
Load resistance range I lower limit upper limit	48 Ω
Load resistance range • lower limit • upper limit Output voltage	48 Ω 4 kΩ
Load resistance range • lower limit • upper limit Output voltage • for signal "0", max.	48 Ω 4 kΩ 3 V; (2L+)
Load resistance range • lower limit • upper limit Output voltage • for signal "0", max. • for signal "1", min.	48 Ω 4 kΩ 3 V; (2L+)
Load resistance range • lower limit • upper limit Output voltage • for signal "0", max. • for signal "1", min. Output current	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V
Load resistance range • lower limit • upper limit Output voltage • for signal "0", max. • for signal "1", min. Output current • for signal "1" rated value	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V
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.	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA
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.	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A
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.	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A
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	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
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	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
Load resistance range I 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	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
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	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
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.	48 Ω 4 kΩ 3 V; (2L+) Rated voltage -2.5 V 0.5 A 5 mA 0.6 A 0.3 mA
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.	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
Load resistance range I 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. with inductive load, max. on lamp load, max. Total current of the outputs (per group)	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
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	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
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 — up to 40 °C, max.	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
Load resistance range I 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	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	
Number of connections	32
Transmission rate, max.	12 Mbit/s
Services	
— 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 Versitable and
— S7 basic communication	Yes; I blocks only
— 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
— Equidistance	Yes Vec: OR 61
— Isochronous mode— SYNC/FREEZE	Yes; OB 61
 — SYNC/FREEZE — activation/deactivation of DP devices 	Yes Yes
activation/deactivation of DP devices DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— inputs, max. — Outputs, max.	2 048 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 hadia communication	
S7 basic communication	Voo
• 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	16
 usable for PG communication 	15
 reserved for PG communication 	1
 adjustable for PG communication, min. 	1
 adjustable for PG communication, max. 	15
 usable for OP communication 	15
— reserved for OP communication	1
 adjustable for OP communication, min. 	1
adjustable for OP communication, max.	15
usable for S7 basic communication	12
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, min. 	0
adjustable for S7 basic communication, max.	12
usable for routing	8; additional
S7 message functions	o, additional
Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7 basic
	communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	40
Test commissioning functions	V.
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
ForcingForcing, variables	Yes Inputs, outputs
• Forcing, variables	Inputs, outputs
Forcing, variablesNumber of variables, max.	Inputs, outputs
Forcing, variablesNumber of variables, max.Diagnostic buffer	Inputs, outputs 10
 Forcing, variables Number of variables, max. Diagnostic buffer present 	Inputs, outputs 10 Yes
 Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. 	Inputs, outputs 10 Yes 100
 Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. adjustable 	Inputs, outputs 10 Yes 100
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information	Inputs, outputs 10 Yes 100 No
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information Alarms Diagnostics function	Inputs, outputs 10 Yes 100 No
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED	Inputs, outputs 10 Yes 100 No No
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. adjustable Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green)	Inputs, outputs 10 Yes 100 No No No Yes
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green)	Inputs, outputs 10 Yes 100 No No
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation	Inputs, outputs 10 Yes 100 No No No Yes
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. adjustable 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	Inputs, outputs 10 Yes 100 No No No Yes Yes Yes
Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — adjustable Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation	Inputs, outputs 10 Yes 100 No No No 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; V5.2 SP1 or higher and S7 Technology option package
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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