SIEMENS

Data sheet

6ES7155-5BA00-0AB0



SIMATIC ET 200MP. PROFIBUS connection IM 155-5 DP ST for max. 12 S7-1500 modules Including PROFIBUS connection plug (6ES7972-0BB70-0XA0)

General information	
Product type designation	IM 155-5 DP ST
HW functional status	From FS01
Firmware version	V2.0.0
 FW update possible 	Yes
Vendor identification (VendorID)	81AAh
Product function	
• I&M data	Yes; I&M0 to I&M3
 Module swapping during operation (hot swapping) 	No
 Isochronous mode 	No
Tool changer	No
Local coupling, IO data	No
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V13
 STEP 7 configurable/integrated from version 	use GSD file
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
Configuration control	
via dataset	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption (rated value)	0.2 A; at 24 V DC and without load
Current consumption, max.	1.2 A; at 20.4 V DC and max. load
Inrush current, max.	4 A
l²t	0.09 A ² ·s
from interface 5 V DC, max.	80 mA
Power	
Infeed power to the backplane bus	14 W
Power loss	
Power loss, typ.	4 W
Address area	
Address space per module	
Address space per module, max.	64 byte; For input and output data respectively
Address space per station	

Handbase grade by another hands Integrated power supply System power supply can be plugged in to left of IM Number of permissible power segments I, incl. literation emodule Rack * Modules per rack, max. * No footles per rack, max. * No footles per rack, max. * It port *	Address space per station, max.	244 byte; For input and output data respectively
Integrated power supply can be plugged in to left of IM		2 11 0710, 1 of hipat and output data responditory
System power supply can be plugged in 0 left of IM No		Yes: 14 W
Number of pormissible power segments **Akack** **Modules per rack, max.** 12; I/O modules **Interface** **Number of PROFIBUS interfaces* **Interface** **Number of ports **Interface** **Number of ports **Interface** **Ports and the interface of the interfa		
* Modules per rack, max. * Notable per rack, max. * Interfaces * Number of PROFIBUS interfaces * Interface syses * Interface syses * No No * No No * No No * Description of PROFIBUS DP device Interface syses * PROFIBUS DP device * PROFIBUS DP device * PROFIBUS DP Device * PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - PROFIBUS DP * Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - DPV1 - Yes - Senaces - SYNC capability - PPV1 - Yes - Senaces - SYNC capability - PPV1 - Yes - Senaces - SYNC capability - Yes - Sync capability - PPV1 - Yes - Senaces - SYNC capability - Yes - SYNC capability		
Modules per rack, max		i, ilici. iliteriace iliodule
Interfaces Number of PROFIBUS interfaces Interface spees *RS 485 *Anniber of ports *Interface spees *RS 485 *Anniber of ports *Interface which *Anniber of ports *Interface spees *Interface sp		12: I/O modulos
Number of PROFIBUS interfaces		12, I/O modules
Interface byes		1: 1 port
New Horizon System New Yes		i, i poit
RS 485 Number of ports No No No No No No No No No Protacols PROFIBUS DP device RS 485 Transmission rate, max. 12 Mbibly Protacols No PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP Services — SYNC capability — Yes — PROFIBUS DP — Services — Sync capability — Yes — PROFIBUS DP — Services — Sync capability — Yes — PROFIBUS DP — RENOR CED — Yes, yes CED — Namin Capability — Sync capability — Yes — PROFIBUS DP — Sync capability — Yes — PROFIBUS DP — Sync capability — Yes — Yes — Sync capability — Yes		
Number of parts	· ·	Vac
Intercepted switch Integrated		
● PROFIBUS DP device		
Protocols PROFIBUS DP device PROFIBUS DP device Protocols State Transmission rate, max. 12 Mbit/s Protocols Modbus TCP PROFIBUS DP Services Services Services Services Services Services Services PROFIBUS DP Services Serv	-	
Interact types RS 485 • Transmission rate, max. 12 Mbit/s Protocols Modbus TCP No PROFIBUS DP Services — SYNC capability — PREEZ capability — PREEZ capability — DPV1 — Yes — FREEZ capability — DPV1 — Yes — Ves Interruptadiagnostic-stratus information Status indicator — Yes Diagnostics function Diagnostics function Diagnostics function Using status indication — Yes Diagnostics function Press • RUN LED • REROR LED • REROR LED • Connection display DP • Ves; green LED Potential separation Detween backplane bus and electronics between PROFIBUS DP and all other circuits Detween PROFIBUS DP and all other circuits Safety extra low voltage SELV Isolation Isolation tested with TOT V DC (type test) Standards, approxis, certificates Ecological footprint • environmental product declaration Global warming potential, (during production) (CO2 et al.) — global warming potential, (during production) (CO2 et al.) — global warming potential, (during operation) • horizontal installation, min. • 25 °C; from FS04 • vertical installation, min. • ovircontal installation, min. • vertical installation, min.		
Interface types 85 : 486 • Transmission rate, max. 12 Mbit/s Protocols Modbus TCP Modbus TCP Services - SYNC capability - REEZE capability - PRECEZE capability - PRECEZE capability - POPV1 - Yes - POPV1 - POPV1 - PRECEZE capability - PRECEZE capability - PRECEZE capability - POPV1 - POPV1 - PRECEZE capability - POPV1 - POPV1 - POPV1 - POPV1 - PRECEZE capability - POPV1 -		Yes
RS 485 • Transmission rate, max. 12 Mibit/s Protocols Modbus TCP PROFIBUS DP Services - SYNC capability - PREZEZ capability - PPV1 - FREEZE capability - DPV1 - Yes - Services - SYNC capability - Yes - Services - SYNC capability - Yes - Services - S		
Transmission rate, max. Protocols No Modbus TCP PROFIBUS DP Services — SYNC capability — PREEZE capability — PREEZE capability — DPV1 — Yes Interrupts/disprostics/status information Status indicator — Yes Diagnostics function — Yes Diagnostics function — Yes Diagnostics function — RIN LED — Services — Sync de LED — MAINT LED — Yes; green LED — Yes; red LED — MAINT LED — Connection display DP — Yes; green LED — Yes; green LED — Yes; green LED — Wes PROFIBUS DP and all other circuit components — Ves green LED — Wes Profibus DP with all other circuits — No Detween PROFIBUS DP and all other circuits — No Detween supply and all other circuits — No Detween deferent circuits — Safety extra low voltage SELV Isolation Stolation tested with — 707 V DC (type test) Standards, approvals, certificatos Ecological footprint — environmental product declaration — environmental product		
Protocols Modous TCP No PROCIBUS DP Services - SYNC capability - FREEZE capability - PREEZE capability		12 Mbit/s
Modbus TCP PROFIBUS DP Services Service	·	
Services - SYNC capability - FREEZE capability - POPU - FREEZE capability - POPU - Yes - POPU - POPU - Yes - POPU		No
Services - SYNC capability		
- SYNC capability Yes - FREEZE capability Yes - DPV1 Yes Interrupts/diagnostics/status information Status indicator Yes Alarms Yes Diagnostics function Yes Diagnostics function Yes EVEN PROFILED Yes; green LED • RUN LED Yes; red LED Yes; red LED • CERROR LED Yes; red LED • CERROR LED Yes; red LED • MAINT LED Yes; Yellow LED • Connection display DP Yes; green LED Potontial separation between backplane bus and electronics No between PROFIBUS DP and all other circuit components Yes between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Stolation lested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Yes Global warming potential (during production) [CO2 eq eq eq eq eq eq eq eq		
FREEZE capability		Yes
Interrupts/diagnostics/status information Status indicator Yes Alarms Yes Diagnostics function Yes Diagnostics function Yes Diagnostics function Yes PUN LED Yes; green LED RUN LED Yes; red LED MAINT LED Yes; yellow LED Connection display DP Yes; green LED Potential separation Detween backplane bus and electronics No Detween PROFIBUS DP and all other circuits components Yes Detween PROFIBUS DP and all other circuits No Permissible potential difference Detween different circuits Safety extra low voltage SELV Isolation Standards, approvals, certificates Ecological footprint e environmental product declaration Yes Global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) eq] — global warming potential, (after end of life cycle) eq] — global warming potential, (after end of life cycle) eq] — global warming potential, (after end of life cycle) eq] — global warming potential, (after end of life cycle) eq] — global marming potential, (after end of life cycle) eq] — horizontal installation, min. e horizontal installation, min. e horizontal installation, min. e horizontal installation, min. e vertical installation, min. e vertical installation, min. e vertical installation, min. e vertical installation, min.		
Interrupts/diagnostics/status information Status indicator Alarms Yes Diagnostics function Pes EUN LED RUN LED Connection display DP Potential separation Between PROFIBUS DP and all other circuit components Detween PROFIBUS DP and all other circuits No Permissible potential difference Detween different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint environmental product declaration Global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation Pess (From FS04 Ambient conditions, min. -25 °C; from FS04 evertical installation, min. -25 °C; from FS04		
Status indicator Yes Alarms Yes Diagnostics function Yes Diagnostics indication LED RUN LED REROR LED REROR LED Ser, red LED Connection display DP Ses; green LED Yes; Yellow LED Connection display DP Yes; green LED Yes; green LED Yes; green LED Yes; green LED Potential separation between PROFIBUS DP and all other circuit components between PROFIBUS DP and all other circuit components Yes between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint Pervironmental product declaration Global warming potential, (total) [CO2 eq] Global warming potential, (during production) [CO2 eq] Global warming potential, (during operation) [CO2 eq] Global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient conditions Ambient conditions Ambient temperature during operation Provential installation, min. Provential		
Alarms Yes Diagnostics function Yes Diagnostics function PRONTED PROPERTY OF THE PROPERTY OF T		Yes
Diagnostics indication LED RUN LED RUN LED REROR LED Pest yes; green LED Yes; red LED Yes; red LED Yes; yellow LED Connection display DP Potential separation Between backplane bus and electronics No between PROFIBUS DP and all other circuit components Petween supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Standards, approvals, certificates Ecological footprint Penvironmental product declaration Global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (after end of life cycle) [CO2 eq] Global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient conditions Ambient temperature during operation Provizontal installation, min. Porizontal installation, min.		
Diagnostics indication LED RUN LED RUN LED REROR LED Pest yes; green LED Yes; red LED Yes; red LED Yes; yellow LED Connection display DP Potential separation Between backplane bus and electronics No between PROFIBUS DP and all other circuit components Petween supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Standards, approvals, certificates Ecological footprint Penvironmental product declaration Global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (during operation) [CO2 eq] global warming potential, (after end of life cycle) [CO2 eq] Global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient conditions Ambient temperature during operation Provizontal installation, min. Porizontal installation, min.	Diagnostics function	Yes
ERROR LED MAINT LED Connection display DP Yes; Yellow LED Yes; Yellow LED Yes; green LED Potential separation between backplane bus and electronics No between PROFIBUS DP and all other circuit components Yes between supply and all other circuits No Permissible potential difference between different circuits Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint environmental product declaration Global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • lorizontal installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, min.		
MAINT LED Connection display DP Yes; green LED Potential separation between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint environmental product declaration Yes Global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 eq] global warming potential, (during operation) global warming potential, (during operation) Global warming potential, (during operation) [CO2 eq] global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation horizontal installation, min. horizontal installation, max. horizontal installation, min. evertical installation, min. evertical installation, min. evertical installation, min. evertical installation, min.	• RUN LED	Yes; green LED
Connection display DP Potential separation between backplane bus and electronics No between PROFIBUS DP and all other circuit components Yes between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, min. • vertical installation, min.	• ERROR LED	Yes; red LED
Potential separation between backplane bus and electronics No between PROFIBUS DP and all other circuit components Yes between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Yes Global warming potential, (total) [CO2 eq] 64.1 kg — global warming potential, (during production) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — Mabient conditions Ambient temperature during operation • horizontal installation, min25 °C; from FS04 • horizontal installation, max. 60 °C • vertical installation, min25 °C; from FS04	MAINT LED	Yes; Yellow LED
between backplane bus and electronics between PROFIBUS DP and all other circuit components between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration - global warming potential - global warming potential, (total) [CO2 eq] - global warming potential, (during production) [CO2 eq] - global warming potential, (during operation) [CO2 eq] - global warming potential, (during operation) [CO2 eq] - global warming potential, (after end of life cycle) - [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. - 25 °C; from FS04 • vertical installation, min. - 25 °C; from FS04	Connection display DP	Yes; green LED
between PROFIBUS DP and all other circuit components between supply and all other circuits No Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration - global warming potential - global warming potential, (total) [CO2 eq] - global warming potential, (during production) [CO2 eq] - global warming potential, (during operation) [CO2 for eq] - global warming potential, (during operation) [CO2 for eq] - global warming potential, (during operation) [CO2 for eq] - global warming potential, (after end of life cycle) - G699 kg - G02 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. - 25 °C; from FS04 • vertical installation, min. - 25 °C; from FS04	Potential separation	
between supply and all other circuits Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 focal eq] — global warming potential, (during operation) [CO2 focal eq] — global warming potential, (after end of life cycle) — Co2 eq] — Marbient conditions Ambient temperature during operation • horizontal installation, min. -25 °C; from FS04 • vertical installation, min. -25 °C; from FS04	between backplane bus and electronics	No
Permissible potential difference between different circuits Safety extra low voltage SELV Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Yes Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 fooded by the conditions Ambient conditions Ambient temperature during operation • horizontal installation, min 25 °C; from FS04 • vertical installation, min 25 °C; from FS04	between PROFIBUS DP and all other circuit components	Yes
between different circuits Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — moditions Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04	between supply and all other circuits	No
Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Yes Global warming potential — global warming potential, (total) [CO2 eq] 64.1 kg — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — global warming potential, (after end of life cycle) -0.669 kg Ambient conditions Ambient temperature during operation • horizontal installation, min25 °C; from FS04 • horizontal installation, max. 60 °C • vertical installation, min25 °C; from FS04	Permissible potential difference	
Isolation tested with 707 V DC (type test) Standards, approvals, certificates Ecological footprint • environmental product declaration Yes Global warming potential — global warming potential, (total) [CO2 eq] 64.1 kg — global warming potential, (during production) [CO2 eq] 9.1.1 kg — global warming potential, (during operation) [CO2 eq] 9.1.1 kg — global warming potential, (during operation) [CO2 eq] 9.1.1 kg — global warming potential, (during operation) [CO2 eq] 9.1.1 kg — global warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — global warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.669 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.5 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.5 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.5 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.5 kg [CO2 eq] 9.1.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1 kg — cyclobal warming potential, (after end of life cycle) 6.1	between different circuits	Safety extra low voltage SELV
Standards, approvals, certificates Ecological footprint ● environmental product declaration Yes Global warming potential — global warming potential, (total) [CO2 eq] 64.1 kg — global warming potential, (during production) [CO2 eq] 11.1 kg eq] 53.6 kg eq] — global warming potential, (during operation) [CO2 eq] 6.669 kg [CO2 eq] Ambient conditions Ambient temperature during operation ● horizontal installation, min25 °C; from FS04 ● vertical installation, min25 °C; from FS04	Isolation	
Ecological footprint ● environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation ● horizontal installation, min. -25 °C; from FS04 ● horizontal installation, max. ● vertical installation, min. -25 °C; from FS04	Isolation tested with	707 V DC (type test)
 environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) — global warming potential, (after end of life cycle) — global warming potential, (after end of life cycle) — co.669 kg Ambient conditions Ambient temperature during operation horizontal installation, min. -25 °C; from FS04 horizontal installation, max. e vertical installation, min. -25 °C; from FS04 	Standards, approvals, certificates	
Global warming potential — global warming potential, (total) [CO2 eq] 64.1 kg — global warming potential, (during production) [CO2 eq] 11.1 kg eq] 53.6 kg eq] - global warming potential, (during operation) [CO2 eq] 64.1 kg — global warming potential, (during operation) [CO2 eq] 63.6 kg eq] -0.669 kg [CO2 eq] -0.669 kg Ambient conditions Ambient temperature during operation • horizontal installation, min25 °C; from FS04 • horizontal installation, max. 60 °C • vertical installation, min25 °C; from FS04	Ecological footprint	
- global warming potential, (total) [CO2 eq] 64.1 kg - global warming potential, (during production) [CO2 eq] 11.1 kg eq] - global warming potential, (during operation) [CO2 eq] 53.6 kg eq] - global warming potential, (after end of life cycle) -0.669 kg [CO2 eq] -0.669 kg Ambient conditions Ambient temperature during operation • horizontal installation, min25 °C; from FS04 • horizontal installation, max. 60 °C • vertical installation, min25 °C; from FS04	environmental product declaration	Yes
- global warming potential, (during production) [CO2 eq] - global warming potential, (during operation) [CO2 53.6 kg - global warming potential, (after end of life cycle) - global warming potential, (after end of life cycle) - 0.669 kg Ambient conditions Ambient temperature during operation • horizontal installation, min 25 °C; from FS04 • horizontal installation, min 25 °C; from FS04	Global warming potential	
eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04 • vertical installation, min. -25 °C; from FS04	— global warming potential, (total) [CO2 eq]	64.1 kg
— global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) — [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04 • vertical installation, min. -25 °C; from FS04		11.1 kg
eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04 • vertical installation, min. -25 °C; from FS04	-	52.6 kg
[CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04 60 °C -25 °C; from FS04	eq]	
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -25 °C; from FS04 60 °C -25 °C; from FS04	[CO2 eq]	-0.669 kg
 horizontal installation, min. -25 °C; from FS04 horizontal installation, max. vertical installation, min. -25 °C; from FS04 	Ambient conditions	
 horizontal installation, max. vertical installation, min. 60 °C -25 °C; from FS04 	Ambient temperature during operation	
• vertical installation, min25 °C; from FS04	 horizontal installation, min. 	-25 °C; from FS04
	 horizontal installation, max. 	60 °C
• vertical installation, max. 40 °C		
	vertical installation, max.	40 °C

5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
No
35 mm
147 mm
129 mm
360 g

last modified: 10/9/2024 🖸