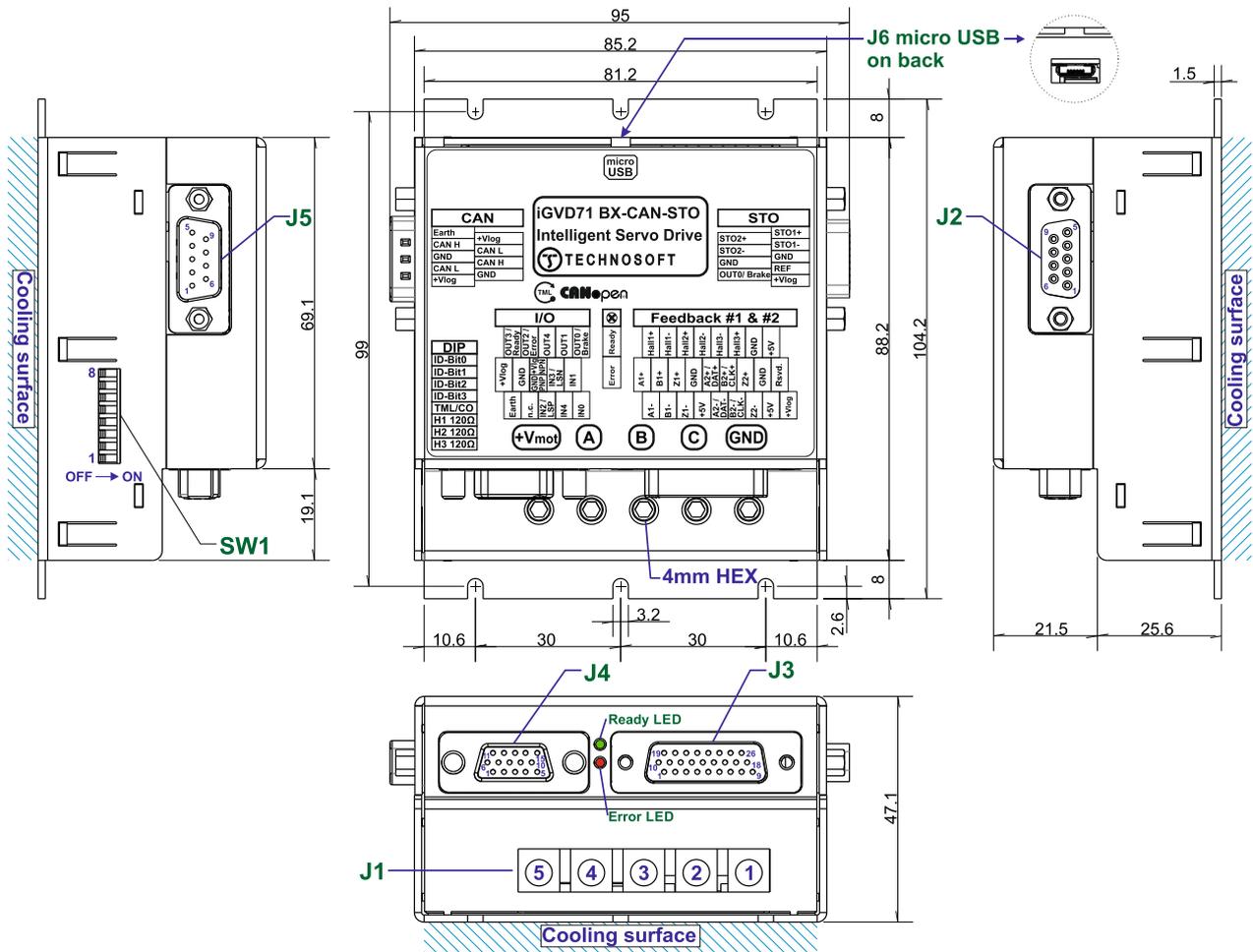


iGVD71 BX-CAN-STO DATASHEET

P/N: P025.027.E201



All dimensions are in mm; Drawing not to scale.

Motor – sensor configurations			
Motor \ Sensor	PMSM	BLDC	DC BRUSH
Incr. Encoder	Ⓣ		Ⓣ
Incr. Encoder + Hall	Ⓣ	Ⓣ	
SSI	Ⓣ	Ⓣ	Ⓣ
BiSS-C	Ⓣ	Ⓣ	Ⓣ
EnDAT*	Ⓣ	Ⓣ	Ⓣ
Tacho			Ⓣ

*Available Starting with F514K firmware version

Features
<ul style="list-style-type: none"> Motion controller and drive in a single compact unit based on MotionChip™ technology Universal solution for control of rotary and linear brushless and brushed motors Advanced motion control capabilities (PVT, S-curve, electronic cam) Motor supply: 11-80V; Logic supply¹: 9-36V Output current²: <ul style="list-style-type: none"> Nominal: 71 A_{RMS} / 100A amplitude Peak: 92 A_{RMS} / 130A amplitude ³STO: 2 safe torque-off inputs, 18-36V SELV/PELV supply, safety integrity level (SIL3) acc. to EN61800-5-1; -2/ EN61508-3; -4/ EN ISO 13849-1. 5x opto-isolated digital inputs, 12-36V, PNP/NPN compatible: 2 for limit switches, 3 general-purpose 4x digital outputs, 0.2A PNP/ 0.3A NPN software selectable: Ready, Error, 2 general-purpose

- 1x PNP/NPN 2A Motor brake digital output: Out0/Brake
- 1x analogue input: 12-bit, 0-5V: Reference, Feedback or general purpose
- Feedback Devices (dual-loop support)
 - 1st feedback devices supported:
 - Incremental encoder interface (differential)
 - 2nd feedback devices supported:
 - Incremental encoder interface (differential)
 - BiSS C / SSI / EnDAT 2.2* encoder interface
- Digital Hall sensor interface (single-ended and open collector or differential, selectable by DIP switch)
 - Pulse & direction reference (differential) capability
- ⁴USB
- CAN-bus 2.0B interface
 - 16 h/w addresses selectable by DIP switch
 - TMLCAN and CANopen (CiA 301, CiA 305 and CiA 402) protocols selectable by DIP switch
 - 16k x 16 SRAM memory for data acquisition
 - 16k x 4 E²ROM to store setup data, TML motion programs, cam tables and other user data
 - Operating ambient temperature: 0-40°C (over 40°C with derating)

¹ Logic supply must be SELV/ PELV type (Safety Extra Low Voltage / Protective Extra Low Voltage)

² Nominal output current possible only with external radiator (not included) that can maintain lower plate temperature below 75°C; The radiator is mounted under the drive using thermal paste or direct metal contact. Its size is application dependent

³ The STO circuit must be supplied with minimum 18V to enable PWM output

⁴ Micro USB cable not provided

Name EP	First edition May 13, 2021	Document template: P099.TQT.564.0001	Last edition October 10, 2025	Visa: AS, GC
		Title of document iGVD71 BX-CAN-STO Intelligent Drive PRODUCT DATA SHEET	N° document P025.027.E201.DSH.10G	
			Page: 1 of 5	

iGVD71 BX-CAN-STO DATASHEET

P/N: P025.027.E201

Mating Connectors		
Ref	Component	Function
J1	High AMP wire. 4mm HEX socket. AWG 6-16 wire gauge. Strip: - min 8 mm for cables with isolation diameter less than 6.5 mm; - min 12 mm/ max 15 mm for cables with isolation diameter bigger than 6.5 mm. Avoid generating metal debris/ filings into drive from the wire leads! In case of multi-stranded wires, a proper crimp ferrule* must be used as wire terminal.	Motor Phases
		Motor Supply
		
J2	generic 9-pin Sub-D male	STO OUT0/Brake Analog Ref
J3	generic 26-pin High Density D-Sub male	Feedback #1 Feedback #2 Digital Halls
J4	generic 15-pin High Density D-Sub male	I/O
J5	generic 9-pin Sub-D female	CAN
J6	Standard Micro USB cable	Communication

* For more recommendations about wires and ferrules, check the User Manual of the drive.

Connectors Description			
Pin	Name	Type	Description
1	GND	-	Negative return (ground) of the power supply
2	C	O	Phase C for 3-ph motors
J1	3	B	Phase B for 3-ph motors, Motor- for DC brush motors
	4	A	Phase A for 3-ph motors, Motor+ for DC brush motors
5	+V _{MOT}	I	Positive terminal of the motor supply: 11 to 80V _{DC} .

Pin	Name	Type	Description
1	+V _{LOG}	I	Positive terminal of the logic supply: 9 to 36V _{DC} . Internally connected to other +Vlog pins.
2	REF	I	Analogue input, 12-bit, 0-5V. Used to read an analog position, speed or torque reference, or used as general-purpose analogue input
3	GND	-	Negative return (ground)
J2	4	STO1-	Safe Torque Off input 1, negative return (opto-isolated, 18+36V)
	5	STO1+	Safe Torque Off input 1, positive input (opto-isolated, 18+36V)
6	OUT0/Brake	O	Digital output used for an electro-mechanical brake, 12-36V, 2A PNP/ 2A NPN software selectable
7	GND	-	Negative return (ground)
8	STO2-	I	Safe Torque Off input 2, negative return (opto-isolated, 18+36V)
9	STO2+	I	Safe Torque Off input 2, positive input (opto-isolated, 18+36V)

Pin	Name	Type	Description
1&9	+V _{LOG}	I	Positive terminal of the logic supply: 9 to 36V _{DC} . Internally connected to other +Vlog pins.
2&8	CAN L	I/O	CAN-Bus negative line (dominant low)
3&6	GND	-	Negative return (ground)
4&7	CAN H	I/O	CAN-Bus positive line (dominant high)
5	Earth	-	Earth connection; Internally connected to the metallic side of J2,3,4 and 5

Pin	Name	Type	Description
J6	USB	-	Standard micro-USB port. Is identified in Windows as RS232 COM port.

Pin	Name	Type	Description	
1	A1-	I	Incr. encoder1 A- diff. input	
2	B1-	I	Incr. encoder1 B- diff. input	
3	Z1-	I	Incr. encoder1 Z- diff. input	
4	+5V _{OUT}	O	5V output supply	
5	A2- /Pulse- /Data-/SL-	I	Incr. encoder2 A- diff. input, or Pulse-, or Data- for SSI, or Slave- for BiSS; has internal 120Ω resistor between pins 5 and 14	
6	B2-/Dir-/CLK- /MA-	I/O	Incr. encoder2 B- diff. input, or Dir-, or Clock- for SSI, or Master- for BiSS; has internal 120Ω resistor between pins 6 and 15	
7	Z2-	I	Incr. encoder2 Z- diff. input; has internal 120Ω resistor between pins 7 and 16	
8	+5V _{OUT}	O	5V output supply for sensors usage	
9	+V _{LOG}	I	Positive terminal of the logic supply: 9 to 36V _{DC} . Internally connected to other +Vlog pins.	
10	A1+ /Pulse	I	Incr. encoder1 A+ diff. input, or Pulse	
11	B1+ /Dir	I	Incr. encoder1 B+ diff. input, or Dir	
12	Z1+	I	Incr. encoder1 Z+ diff. input	
13	GND	-	Return ground for sensors supply	
14	A2+ /Pulse+ /Data+ /SL+	I	Incr. encoder2 A+ diff. input, or Pulse+, or Data+ for SSI, or Slave+ for BiSS; has internal 120Ω resistor between pins 5 and 14	
J3	15	B2+ /Dir+ /CLK+ /MA+	I/O	Incr. encoder2 B+ diff. input, or Dir+, or Clock+ for SSI, or Master+ for BiSS; has internal 120Ω resistor between pins 6 and 15
	16	Z2+	I	Incr. encoder2 Z+ diff. input; has internal 120Ω resistor between pins 7 and 16
17	GND	-	Return ground for sensors supply	
18	n.c.	-	not connected	
19	Hall 1+	I	Digital input Hall 1+ diff. sensor input; SW1 pin 3 can connect an 120Ω resistor between pins 19 and 20	
20	Hall 1-	I	Digital input Hall 1- diff. sensor input; SW1 pin 3 can connect an 120Ω resistor between pins 19 and 20	
21	Hall 2+	I	Digital input Hall 2+ diff. sensor input; SW1 pin 2 can connect an 120Ω resistor between pins 21 and 22	
22	Hall 2-	I	Digital input Hall 2- diff. sensor input; SW1 pin 2 can connect an 120Ω resistor between pins 21 and 22	
23	Hall 3-	I	Digital input Hall 3- diff. sensor input; SW1 pin 1 can connect an 120Ω resistor between pins 23 and 24	
24	Hall 3+	I	Digital input Hall 3+ diff. sensor input; SW1 pin 1 can connect an 120Ω resistor between pins 23 and 24	
25	GND	-	Return ground for sensors supply	
26	+5V _{OUT}	O	5V output supply	

Pin	Name	Position	Description
1	H3 120Ω	up (ON)	Internally connect an 120Ω termination resistor between Hall 3+ and Hall 3- pins
2	H2 120Ω	up (ON)	Internally connect an 120Ω termination resistor between Hall 2+ and Hall 2- pins
3	H1 120Ω	up (ON)	Internally connect an 120Ω termination resistor between Hall 1+ and Hall 1- pins
SW1	4	TML/CO	up (ON) Select CANopen communication protocol down (OFF) Select TMLCAN communication protocol
	5	ID-Bit3	- Hardware AxisID selection switches
6	ID-Bit2	-	They represent the first 4 LSB bits of an 8-bit Axis ID number.
7	ID-Bit1	-	When all bits are 0 then AxisID=255;
8	ID-Bit0	-	If AxisID = 255 in CANopen, the drive will be in "LSS inactive" state and the Green LED will flash at 1 second intervals

Name EP	First edition May 13, 2021	Document template: P099.TQT.564.0001	Last edition October 10, 2025	Visa: AS, GC
		Title of document iGVD71 BX-CAN-STO Intelligent Drive PRODUCT DATA SHEET	N° document P025.027.E201.DSH.10G	
				Page: 2 of 5

iGVD71 BX-CAN-STO DATASHEET

P/N: P025.027.E201

Pin	Name	Type	Description
1	Earth	-	Earth connection; Internally connected to the metallic side of J2,3,4 and 5
2	n.c.	-	not connected
3	IN2/LSP	I	12-36V digital PNP/NPN opto-isolated input. Positive limit switch function
4	IN4	I	12-36V general-purpose digital PNP/NPN opto-isolated input.
5	IN0	I	12-36V general-purpose digital PNP/NPN opto-isolated input.
6	+V _{LOG}	I	Positive terminal of the logic supply: 9 to 36V _{DC} . Internally connected to other +Vlog pins.
7	GND	-	Return ground for I/O pins
8	GND PNP	+Vlog NPN	PNP/NPN Inputs type selector. Connect to GND to use inputs as PNP; Connect to +Vlog to use inputs as NPN
9	IN3/LSN	I	12-36V digital PNP/NPN opto-isolated input. Negative limit switch function
10	IN1	I	12-36V general-purpose digital PNP/NPN opto-isolated input.
11	OUT3/Ready	O	12-36V drive Ready digital output, 0.2A PNP/ 0.3A NPN, software selectable
12	OUT2/Error	O	12-36V drive Error digital output, 0.2A PNP/ 0.3A NPN, software selectable
13	OUT4	O	12-36V general-purpose digital output, 0.2A PNP/ 0.3A NPN, software selectable
14	OUT1	O	12-36V general-purpose digital output, 0.2A PNP/ 0.3A NPN, software selectable
15	OUT0/Brake	O	Digital output used for an electro-mechanical brake, 12-36V, 2A PNP/ 2A NPN software selectable

Electrical characteristics

All parameters measured under the following conditions (unless otherwise specified):

- V_{LOG} = 24 VDC; V_{MOT} = 80VDC
- Supplies start-up / shutdown sequence: -any-
- Load current (sinusoidal amplitude) = 100A

Operating Conditions		Min.	Typ.	Max.	Units
Ambient temperature		0		40 ^{1,3}	°C
Ambient humidity	Non-condensing	0		90	%Rh
Altitude / pressure ²	Altitude (vs. sea level)	-0.1	0 + 2.5 ²		Km
	Ambient Pressure	0 ²	0.75 ± 1	10.0	atm
Storage Conditions		Min.	Typ.	Max.	Units
Ambient temperature		-40		105	°C
Ambient humidity	Non-condensing	0		100	%Rh
Ambient Pressure		0		10.0	atm
ESD capability (Human body model)	Not powered; applies to any accessible part			±0.5	kV
	Original packaging			±15	kV
Mechanical Mounting		Min.	Typ.	Max.	Units
External heatsink (cooling plate)	Current capability depends on heat transfer, heatsink dimension, cooling technique (natural or forced). Keep lower plate temperature at maximum 75°C				
Environmental Characteristics		Min.	Typ.	Max.	Units
Size (Length x Width x Height)	Without mating connectors	104.2 x 95 x 47.1			mm
		~4.1 x 3.74 x 1.85			inch
Weight	Without mating connectors	300			g
Power dissipation	Idle (no load)	3			W
	Operating	80±100			
Efficiency		98			%
Cleaning agents	Dry cleaning is recommended	Only Water- or Alcohol- based			
Protection degree	According to IEC60529, UL508	IP20			-

Logic Supply Input (+V _{LOG})		Min.	Typ.	Max.	Units
Supply voltage	Nominal values	12	24	36	V _{DC}
	Absolute maximum values, drive operating but outside guaranteed parameters	8	24	40	V _{DC}
	Absolute maximum values, surge (duration ≤ 10ms) [†]	-1		+45	V
Supply current	+V _{LOG} = 12V		170		mA
	+V _{LOG} = 24V		110		
	+V _{LOG} = 36V		90		
Motor Supply Input (+V _{MOT})		Min.	Typ.	Max.	Units
Supply voltage	Nominal values	12	80	90	V _{DC}
	Absolute maximum values, drive operating but outside guaranteed parameters	11		94	V _{DC}
	Absolute maximum values, surge (duration ≤ 10ms) [†]	-1		95	V
Supply current	Idle		1	5	mA
	Operating	-130	±100	+130	
	Absolute maximum value, short circuit condition (Duration ≤ 10ms) [†]			140	
Motor Outputs (A/A+, B/A-, C/B+, BR/B-)		Min.	Typ.	Max.	Units
Nominal (recommended) output current, continuous ³	for DC brushed and BLDC motors with Hall-based trapezoidal control			86.6	A
	for PMSM motors with FOC sinusoidal control (sinusoidal amplitude value)			100	
	for PMSM motors with FOC sinusoidal control (sinusoidal effective value)			70.7	
Motor output current, peak	*As long as drive back plate does not exceed 75°C	-130		+130	A
Short-circuit protection threshold				±140	A
Short-circuit protection delay		5	10		µs
On-state voltage drop	Nominal output current; including typical mating connector contact resistance		±0.3	±0.5	V
Off-state leakage current			±0.5	±1	mA
Motor inductance (phase-to-phase)	Recommended value, for current ripple max. ±5% of full range; +V _{MOT} = 60 V	F _{PWM}			µH
		20 kHz	300		
		40 kHz	150		
		60 kHz	100		
	80 kHz	75			
Minimum value, limited by short-circuit protection; +V _{MOT} = 60 V	20 kHz	150		µH	
	40 kHz	75			
	60 kHz	50			
	80 kHz	38			
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error	20 kHz	250	µs	
		40 kHz	125		
		60 kHz	100		
		80 kHz	63		
Current measurement	FS = Full Scale accuracy		±4	±8	%FS
Digital Inputs – opto-isolated- (IN0, IN1, IN2/LSP, IN3/LSN, IN4)		Min.	Typ.	Max.	Units
Mode compliance	PNP (J4, pin8 connected to GND)	Connect digital input pin to +Vlog to change its state			
	NPN (J4, pin8 connected to +Vlog)	Connect digital input pin to GND to change its state			
Default state	Input floating (wiring disconnected)	Logic LOW			
Input voltage	Logic LOW	0		6	V
	Logic HIGH	11		36	
	Absolute maximum	-5		50	
Input current	Logic LOW	0		0.2	mA
	Logic HIGH	0.65	1.9	3.2	
	Absolute maximum	0		4	
Input frequency			2		kHz
Minimum pulse			500		µs
ESD protection	Human body model	±15			kV

¹Operating temperature at higher temperatures is possible with reduced current and power ratings

²iGVD71 can be operated in vacuum (no altitude restriction), but at altitudes over 2,500m, current and power rating are reduced due to thermal dissipation efficiency.

³@20KHz F_{PWM}

Name EP	First edition May 13, 2021	Document template: P099.TQT.564.0001	Last edition October 10, 2025	Visa: AS, GC
 TECHNOSOFT		iGVD71 BX-CAN-STO Intelligent Drive PRODUCT DATA SHEET	N° document P025.027.E201.DSH.10G Page: 3 of 5	

iGVD71 BX-CAN-STO DATASHEET

P/N: P025.027.E201

Digital Outputs (OUT0/Brake, OUT1, OUT2, OUT3, OUT4)		Min.	Typ.	Max.	Units
Mode compliance	PNP 24V				
Default state	Not supplied (+VLOG floating or to GND)	High-Z (floating)			
	Normal operation	Logic "High"			
Output voltage	Logic "HIGH"; output current = 0.2A		V _{LOG} -0.2	V _{LOG} -0.8	V
	Logic "LOW"; output current = 0, no load	open-collector			
	Logic "HIGH", external load to GND		0		
	Absolute maximum, continuous	-0.3		V _{LOG} +0.3	
	Absolute maximum, surge (duration ≤ 1s) [†]	-0.5		V _{LOG} +0.5	
Output current	Logic "HIGH", source current, continuous	OUT1,2,3,4	0.2	A	
		OUT0/Brake	2		
	Logic "HIGH", source current, pulse ≤ 5 s	OUT1,2,3,4	0.4	A	
		OUT0/Brake	3		
Logic "LOW", means High-Z			mA		
Minimum pulse width		2		μs	
ESD protection	Human body model	±15		kV	

Digital Outputs (OUT0/Brake, OUT1, OUT2, OUT3, OUT4)		Min.	Typ.	Max.	Units
Mode compliance	NPN 24V				
Default state	Not supplied (+VLOG floating or to GND)	High-Z (floating)			
	Normal operation	High-Z			
Output voltage	Logic "LOW"; output current = 0.3A		0.2	0.8	V
	Logic "HIGH"; output current = 0, no load	open-collector			
	Logic "HIGH", external load to +VLOG		V _{LOG}		
	Absolute maximum, continuous	-0.3		V _{LOG} +0.3	
	Absolute maximum, surge (duration ≤ 1s) [†]	-0.5		V _{LOG} +0.5	
Output current	Logic "LOW", sink current, continuous	OUT1,2,3,4	0.3	A	
		OUT0/Brake	2		
	Logic "LOW", sink current, pulse ≤ 5 s	OUT1,2,3,4	0.5	A	
		OUT0/Brake	3		
Logic "HIGH", means High-Z			mA		
Minimum pulse width		2		μs	
ESD protection	Human body model	±15		kV	

Brake output (OUT0/Brake)		Min.	Typ.	Max.	Units
Out0/Brake: solenoid driver, 2A.					
Default state	Not supplied (+VLOG floating or to GND)	High-Z (floating)			
	Immediately after power-up	Brake-	High-Z (floating)		
	Normal operation	Brake-	High-Z (floating)		
Output voltage	Logic "LOW" (Brake-)			0.2	V
	Logic "HIGH"; load present		+V _{LOG}		
	Logic "HIGH", no load present		+5		
	Absolute maximum, continuous	-0.5		+V _{LOG} +0.3	
Output current	Logic "LOW", sink current, continuous, Brake-			3	A
	Logic "HIGH", leakage current; external load to +VLOG; V _{OUT} = V _{LOG} max = 55V			0.2	mA

Digital Hall Inputs (Hall1+, Hall1-, Hall2+, Hall2-, Hall3+, Hall3-) ¹		Min.	Typ.	Max.	Units	
Mode compliance	TTL / CMOS / Open-collector					
Default state	Input floating (Wiring disconnected)	Logic HIGH				
Input voltage	Logic "LOW"		0	0.8	V	
	Logic "HIGH"	2	5			
	Floating voltage (Not connected)	H1+, H2+, H3+		4.4		
		H1-, H2-, H3-		1.8		
Absolute maximum, surge (duration ≤ 1s) [†]	-10		+15			
Input current	Logic "LOW"; Pull to GND			1.2	mA	
	Logic "HIGH"; Internal 4.7KΩ pull-up to +5	0	0	0		
Minimum pulse width		2		μs		

Differential mode compliance		RS422 compliance			TIA/EIA-422-A		
Input voltage	Hysteresis	±0.06	±0.1	±0.2	V		
	Differential mode	-14		+14			
	Common-mode range (A+ to GND, etc.)	-11		+14			
Input impedance, differential			120		Ω		
Input frequency	Differential mode		0	10	MHz		
Minimum pulse width	Differential mode		50		ns		
ESD protection	Human body model		±5		kV		

Encoder #1 and #2 Inputs (A1+, A1-, B1+, B1-, Z1+, Z1-, A2+, A2-, B2+, B2-, Z2+, Z2-) ²		Min.	Typ.	Max.	Units
Differential mode compliance	For full RS422 compliance, see ¹	TIA/EIA-422-A			
Input voltage	Hysteresis	±0.06	±0.1	±0.2	V
	Differential mode	-14		+14	
	Common-mode range (A+ to GND, etc.)	-11		+14	
Input impedance, differential	A1+/A1-, B1+/B1-, Z1+/Z1-, A2+/A2-, B2+/B2-, Z2+/Z2-		120		Ω
Input frequency	Differential mode		0	10	MHz
Minimum pulse width	Differential mode		50		ns
Analog 0...5V Inputs (REF)		Min.	Typ.	Max.	Units
Input voltage	Operational range		0	5	V
	Absolute maximum values, continuous		-12	+18	
	Absolute maximum, surge (duration ≤ 1s) [†]			±36	
Input impedance	To GND		18		kΩ
Resolution			12		bits
Integral linearity				±2	bits
Offset error			±2	±10	bits
Gain error			±1%	±3%	% FS ³
Bandwidth (-3Db)	Software selectable		0	1	kHz
ESD protection	Human body model		±5		kV

¹ Differential input pins have internal 120Ω termination resistors connected across when SW1 pins 1,2,3 are ON

³ "FS" stands for "Full Scale"

² All differential input pins have internal 120Ω termination resistors connected across

Name EP	First edition May 13, 2021	Document template: P099.TQT.564.0001	Last edition October 10, 2025	Visa: AS, GC
		iGVD71 BX-CAN-STO Intelligent Drive PRODUCT DATA SHEET	P025.027.E201.DSH.10G Page: 4 of 5	

iGVD71 BX-CAN-STO DATASHEET

P/N: P025.027.E201

Safe Torque OFF (STO1+; STO1-; STO2+; STO2-)		Min.	Typ.	Max.	Units
Safety function	According to EN61800-5-2	STO (Safe Torque OFF)			
EN 61800-5-1/ -2 and EN 61508-5-3/ -4 Classification	Safety Integrity Level	safety integrity level 3 (SIL3)			
	PFFd (Probability of Failures per Hour - dangerous)	8*10 ⁻¹⁰	hour ⁻¹ (0.8 FIT)		
EN13849-1 Classification	Performance Level	Cat3/PLe			
	MTTFd (meantime to dangerous failure)	377	years		
Mode compliance		PNP			
Default state	Input floating (wiring disconnected)	Logic LOW			
Input voltage	Logic "LOW" (PWM operation disabled)	-20		5.6	V
	Logic "HIGH" (PWM operation enabled)	18		36	
	Absolute maximum, continuous	-20		+40	
Input current	Logic "LOW"; pulled to GND		0		mA
	Logic "HIGH"; pulled to +Vlog		5	10	
Diagnosis Pulse duration	Ignored high-low-high			5	ms
	Accepted pulse			20	Hz
PWM operation delay	From Enabled low-high transition to PWM operation enabled			30	ms
ESD protection	Human body model	±2			kV

CAN-Bus		Min.	Typ.	Max.	Units
Compliance		ISO11898, CiA-301v4.2, CiA 305 v2.2.13, 402v3.0			
Bit rate	Software selectable	125		1000	Kbps
Bus length	1Mbps			25	m
	500Kbps			100	
	≤ 250Kbps			250	
Resistor	Between CAN-Hi, CAN-Lo	none on-board			
Node addressing	Hardware: by SW1 switch	1-15 & 255			TMLCAN
		1-15 & 255(LSS inactive)			CANopen
	Software	1 + 127 (CANopen); 1- 255 (TMLCAN)			
Voltage, CAN-Hi or CAN-Lo to GND		-26		26	V
ESD protection	Human body model	±15			kV
Supply Output (+5V)		Min.	Typ.	Max.	Units
Output voltage	Current sourced = 250mA	4.8	5	5.2	V
Output current		600	650		mA
Short-circuit		Protected			
Over-voltage		NOT protected			
ESD protection	Human body model	±1			kV
Conformity		Min.	Typ.	Max.	Units
EU Declaration	Pending	2014/30/EU (EMC), 2014/35/EU (LVD), 2011/65/EU (RoHS), 1907/2006/EC (REACH), 93/68/EEC (CE Marking Directive), EC 428/2009 (non dual-use item, output frequency limited to 590Hz)			

† Stresses beyond values listed under "absolute maximum ratings" may cause permanent damage to the device. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Name EP	First edition May 13, 2021	Document template: P099.TQT.564.0001	Last edition October 10, 2025	Visa: AS, GC	
 TECHNOSOFT		Title of document iGVD71 BX-CAN-STO Intelligent Drive PRODUCT DATA SHEET	N° document P025.027.E201.DSH.10G Page: 5 of 5		