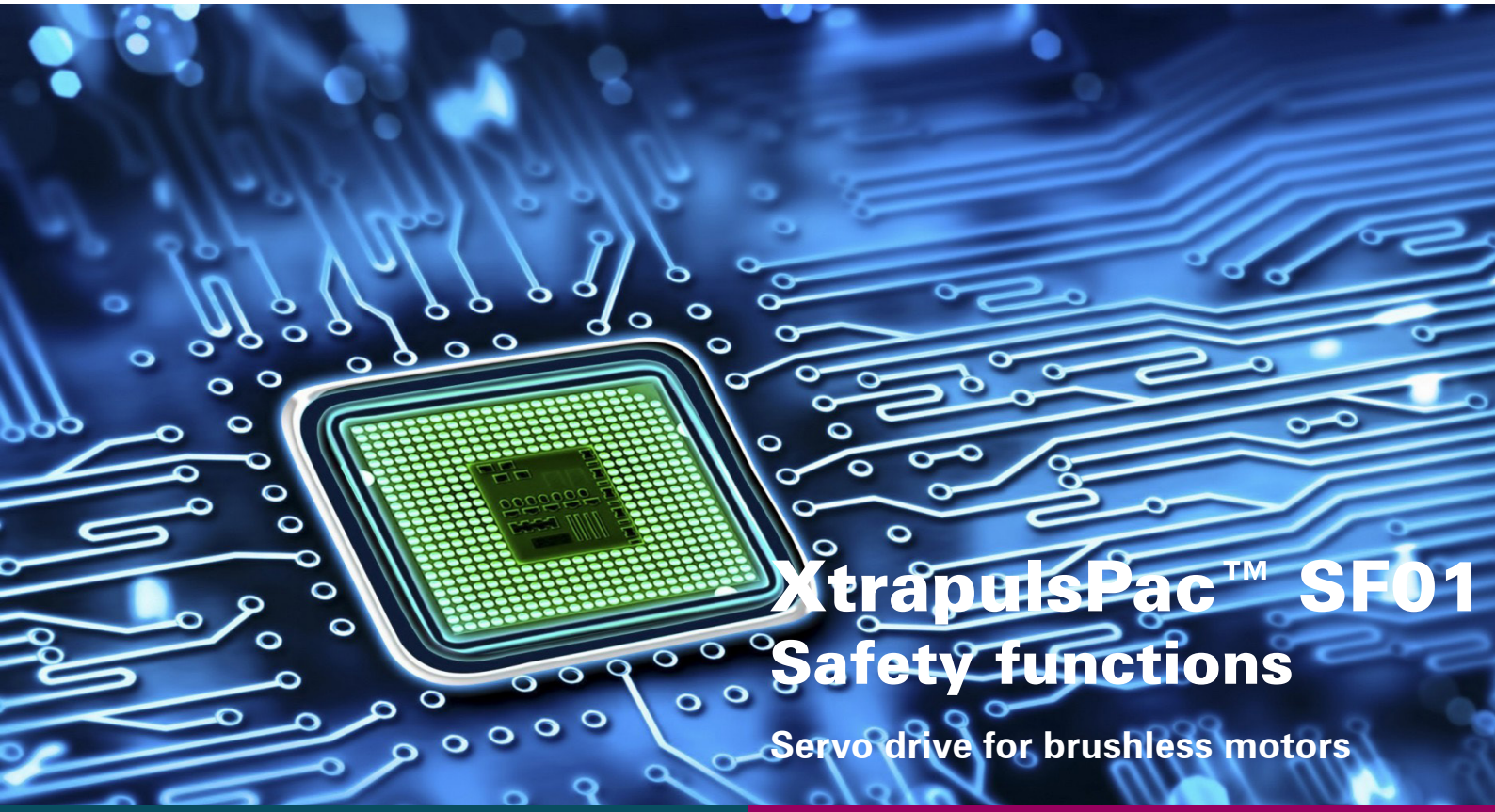
INFRANOR®



XtrapulsPac™ SF01
Safety functions

Servo drive for brushless motors

Functions

DS402 standard modes
Electronic gearing, camming, stepper emulation
Analog speed drive, stand-alone positioner

Safety

Safe Torque Off (STO) function SIL 3
Motion safety functions SIL 2: SS1 / SS2 / SOS / SLS / SDI / SBC

Power ranges

230 VAC: 5 to 17 Arms max.
480 VAC: 8 to 200 Arms max.

Interfaces

RS-232, CANopen®, EtherCAT®
Digital and analog I/Os

Sensors

Encoders: incremental, Hiperface® absolute, SinCos, HES
Digital encoder: Hiperface DSL® (one single motor cable)

Tools

Gem Drive Studio: drive configuration software
Safety Tool: safety functions configuration software

XtrapulsPac™ SF01: servo drive with safety functions

The XtrapulsPac™ SF01 servo drive for the control of brushless motors completes the XtrapulsPac™ range with motion safety functions monitoring the motor behaviour. These functions ensure the protection of operator and machine against uncontrolled and dangerous movements.

Electrical specifications

Drive type	Pac-SF01-230			Pac-SF01-400		Pac-SF01-400		
	/ 05	/ 11	/ 17	/ 08	/ 20	/ 45	/ 100	/ 200
Peak current [Arms]	5	11	17	8	20	45	100	200
Cont. current [Arms]	2.5	5.5	8.5	4	10	22.5	35	75
Voltage	1x230 VAC[1] / 320 VDC[2]			3x480 VAC[1] / 680 VDC[2]		680 VDC[2]		

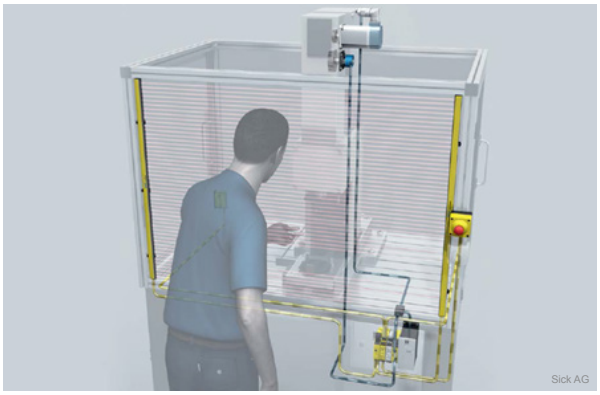
[1]Integrated power supply [2]External power supply

Power supply type	GDPS-400[3]		
	/ 16	/ 32	/ 64
Nominal power	16 kW	32 kW	64 kW
Voltage	3x230 VAC / 3x480 VAC		

[3]Integrated mains filter, DC bus output for parallel connection of several drives, external braking resistor

Safe intervention on live machines

• Intervention on machines without switching off the power supply • Operator's safety ensured • Enhanced productivity



Configuration tools

– **Gem Drive Studio** : configuration software of the drive

– **Safety Tool** : configuration software of the safety functions

Certifications

Made in France

– **TÜV** validated conformity with the safety standards

Safety standards

– IEC 61800-5-2:2007
– EN 61508-1:2011
– EN 61508-2:2011
– EN 61508-3:2011
– EN 61508-4:2011
– EN 62061/A1:2013
– EN ISO 13849-1:2016
– EN 60204-1:2006
– EN 61800-5-1:2007
– EN 60259/A1:2000
– EN 61326-3-1:2008
– EN 61800-3:2004

Safety

Safe Torque Off SIL 3
STO safety function integrated in the drive

Advanced safety functions SIL 2

– *SS1 (Safe Stop 1)*: Starts a monitored deceleration and switches off the motor torque (STO)

– *SS2 (Safe Stop 2)*: Starts a monitored deceleration and monitors the standstill position (SOS)

– *SOS (Safe Operating Stop)*: Monitoring of the standstill position

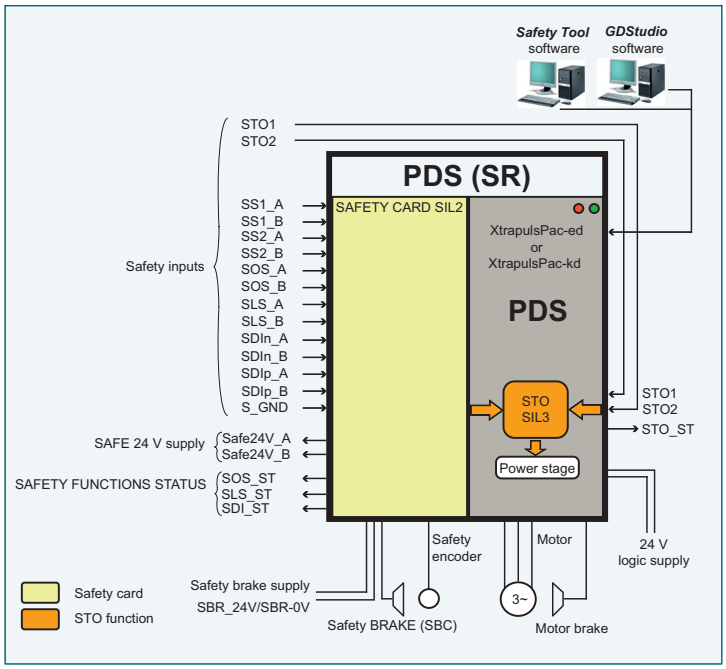
– *SLS (Safely Limited Speed)*: The motor speed is monitored according to predefined limits

– *SDI (Safe Direction)*:
° SDIn: allows the movement in the CCW direction (negative)
° SDIp: allows the movement in the CW direction (positive)

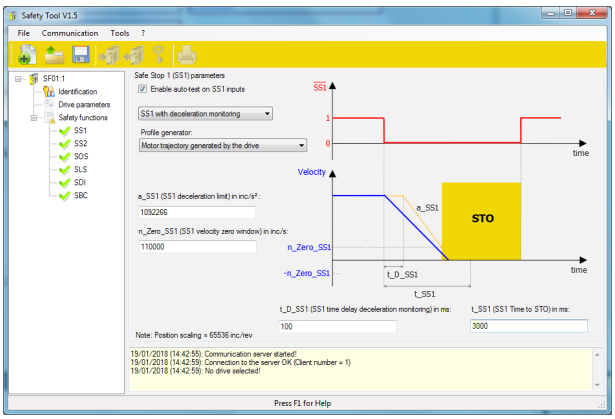
– *SBC (Safe Brake Control)*: Provides a safe brake output

The monitoring of motor movements by means of the safety functions allows the live machine to be stopped (Safe stop) without having to go through a process of restarting and resetting the machine. This functionality greatly enhances productivity and saves time.

Safety system overview

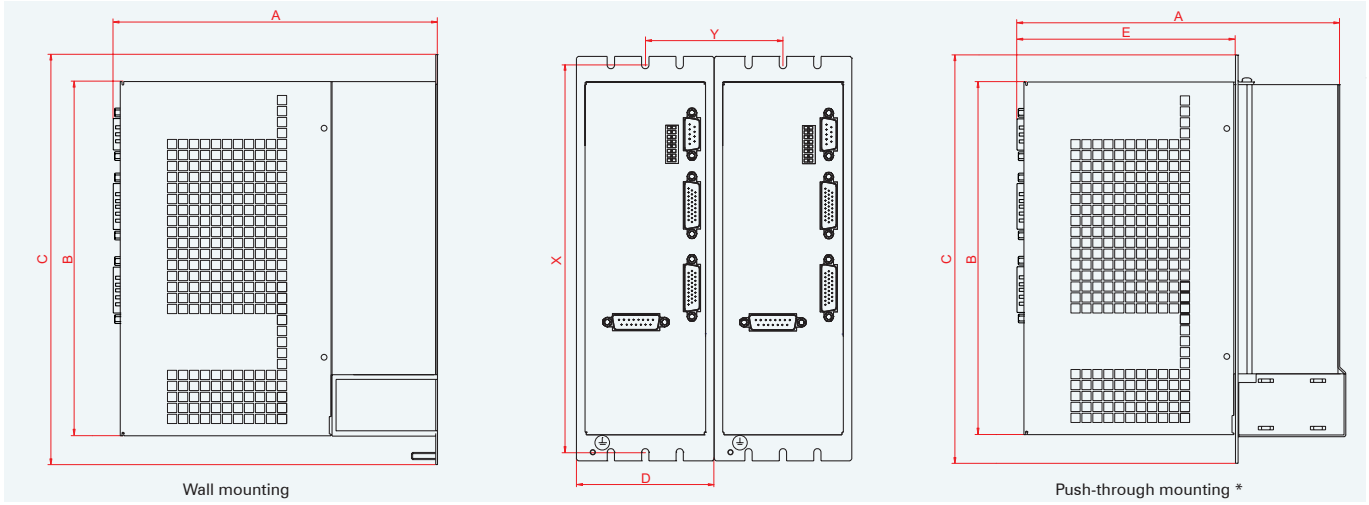


Safety Tool



Parameter setting assistent of the safety functions

Mechanical dimensions [mm]



Wall mounting

Push-through mounting *

Dimensions [mm]	A	B	C	D	E*	X	Y
Pac-SF01-230V / 5 - 17A	178	148	178	70	-	169	80
Pac-SF01-400V / 8 - 45A	221	203	235	70 (80*)	125	225	80
Pac-SF01-400V / 100A	244	203	235	80 (80*)	125	225	80
Pac-SF01-400V / 200A	215	265	295	166.6	-	285	100
GDPS-400 V / 16/32 kW	158	203	235	70	-	225	80
GDPS-400 V / 64 kW	207	262.5	295	71.5	-	285	80

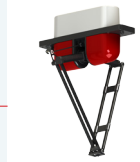
Infranor® product range

Drives

Standard drives

Customized drives

Drive applications



Motors

Standard motors

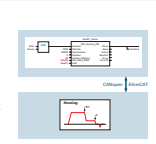
Customized motors

Motor applications

Services

Standard services

User-specific services



Global solutions

Infranor Group

Infranor creates added value for its customers by providing tailor-made motion solutions.

Based on strong working relationships, Infranor offers extensive market know-how, comprehensive engineering skills and a wide range of high-quality products leading to productivity gains and therefore to comparative advantages for its customers in their respective markets.

Infranor worldwide

Benelux
China
France
Germany
Italy
Spain
Switzerland
UK
USA

Other representations:
Austria, Denmark, India, Israel, Poland, Slovenia, Turkey.

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