

# enclosed variable speed drive ATV71 Plus - 132 kW - 400 V - IP54

ATV71EXC5C13N4

! Discontinued on: Jul 23, 2021 AD

(!) To be discontinued

### Main

Range Of Product	Altivar 71 Plus			
Product Or Component Type	Variable speed drive			
Device Short Name	ATV71 Plus			
Product Destination	Synchronous motors			
	Asynchronous motors			
Product Specific Application	Complex, high-power machines			
Assembly Style	In floor-standing enclosure compact version			
Product Composition	ATV71HC13N4D drive on heatsink			
	Terminals/bars for motor connection			
	A switch and fast-acting semi-conductor fuses			
	An IP65 remote mounting kit for graphic display terminal			
	A line choke			
	A wired ready-assembled Sarel Spacial 6000 enclosure			
Emc Filter	Integrated			
Network Number Of Phases	3 phases			
Rated Supply Voltage	380415 V +/- 10 %			
Supply Voltage Limits	342457 V			
Supply Frequency	5060 Hz +/- 5 %			
Network Frequency	47.563 Hz			
Motor Power Kw	132 kW at 380415 V			
Line Current	229 A for 400 V / 132 kW			

# Complementary

Apparent Power	157 kVA for 400 V / 132 kW				
Prospective Line Isc	100 kA with external fuses				
Continuous Output Current	259 A at 2.5 kHz, 400 V / 132 kW				
Maximum Transient Current	389 A for 60 s / 132 kW				
Speed Drive Output Frequency	0500 Hz				
Nominal Switching Frequency	2.5 kHz				
Switching Frequency	2.58 kHz with derating factor 28 kHz adjustable				
Speed Range	1100 in open-loop mode, without speed feedback				
Speed Accuracy	+/- 0.01 % of nominal speed in closed-loop mode with encoder feedback 0.2 Tn to Tn +/- 10 % of nominal slip without speed feedback 0.2 Tn to Tn				

Torque Accuracy	+/- 15 % in open-loop mode, without speed feedback +/- 5 % in closed-loop mode with encoder feedback			
	., o ,, in closed loop mode with encoder recapacit			
Transient Overtorque	170 % of nominal motor torque +/- 10 % for 60 s 220 % of nominal motor torque +/- 10 % for 2 s			
Braking Torque	<= 150 % with braking or hoist resistor 30 % without braking resistor			
Asynchronous Motor Control Profile	Voltage/frequency ratio, 2 points Flux vector control with sensor, standard Voltage/frequency ratio - Energy Saving, quadratic U/f Flux vector control without sensor, 2 points Flux vector control without sensor, ENA (energy Adaptation) system Voltage/frequency ratio, 5 points Flux vector control without sensor, standard			
Synchronous Motor Control Profile	Vector control without sensor, standard  Vector control with sensor, standard  Vector control with sensor, standard			
Regulation Loop	Adjustable PI regulator			
Motor Slip Compensation	Automatic whatever the load Adjustable Not available in voltage/frequency ratio (2 or 5 points) Suppressable			
Overvoltage Category	Class 3 conforming to EN 50178			
Local Signalling	LCD display unit for operation function, status and configuration - mounted in the front door			
Output Voltage	<= power supply voltage			
solation	Electrical between power and control			
Type Of Cable For External Connection	IEC cable at 40 °C, copper 70 °C / PVC			
Electrical Connection	Terminal - 2.5 mm² / AWG 14 (AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR) entry from the bottom  Terminal M10 - 2 x 150 mm² (L1/R, L2/S, L3/T) entry from the bottom  Terminal M12 - 2 x 240 mm² (U/T1, V/T2, W/T3) entry from the bottom			
Motor Recommanded Cable Cross Section	3 x 150 mm²			
Short-Circuit Protection	400 A fuse protection type gI - power supply upstream			
Supply	External supply: 24 V DC (1930 V), <1 A Internal supply for reference potentiometer: 10 V DC (1011 V), <10 mA Internal supply: 24 V DC (2127 V), <100 mA			
Analogue Input Number	2			
Analogue Input Type	Al2 software-configurable voltage: 010 V DC, 24 V max, impedance: 30000 Ohr sampling time: 1.52.5 ms, resolution: 11 bits Al1-/Al1+ bipolar differential voltage: +/- 10 V DC, 24 V max, sampling time: 1.5 ms, resolution: 11 bits + sign Al2 software-configurable current: 020 mA/420 mA, impedance: 250 Ohm, sampling time: 1.52.5 ms, resolution: 11 bits			
Analogue Output Number	1			
Analogue Output Type	Software-configurable voltage: (AO1) 010 V DC - 470 Ohm - sampling time: 1.5 2.5 ms - resolution: 10 bits Software-configurable current: (AO1) 020 mA/420 mA - 500 Ohm - sampling time: 1.52.5 ms - resolution: 10 bits			
Discrete Output Number	2			
Discrete Output Type	Configurable relay logic: (R1A, R1B, R1C)NO/NC - 6.57.5 ms - 100000 cycles Configurable relay logic: (R2A, R2B)NO - 6.57.5 ms - 100000 cycles			
Minimum Switching Current	3 mA at 24 V DC (configurable relay logic)			
Maximum Switching Current  5 A at 250 V AC on resistive load - cos phi = 1 (R1, R2)  5 A at 30 V DC on resistive load - L/R = 0 ms (R1, R2)  2 A at 250 V AC on inductive load - cos phi = 0.4 (R1, R2)  2 A at 30 V DC on inductive load - L/R = 7 ms (R1, R2)				

Discrete Input Number	7	
Discrete Input Type	Programmable (LI1LI5) at 24 V DC <= 30 V level 1 PLC 3.5 kOhm (duration=1.5 2.5 ms)	
	Switch-configurable (LI6) at 24 V DC <= 30 V level 1 PLC 1.5 kOhm (duration=1.5 2.5 ms) Safety input (PWR) at 24 V DC <= 30 V 1.5 kOhm	
Discrete Input Logic	Positive logic (source) (LI1LI6), 05 V (state 0), 1130 V (state 1) Negative logic (sink) (LI1LI6), 1630 V (state 0), 010 V (state 1)	
	Positive logic (source) (PWR), 02 V (state 0), 1730 V (state 1)	
Acceleration And Deceleration Ramps	Linear adjustable separately from 0.01 to 9000 s  Automatic adaptation of ramp if braking capacity exceeded, by using resistor S, U or customized	
Braking To Standstill	By DC injection	
Protection Type	Against exceeding limit speed: drive Against input phase loss: drive Break on the control circuit: drive Input phase breaks: drive	
	Line supply overvoltage: drive	
	Line supply undervoltage: drive  Overcurrent between output phases and earth: drive	
	Overheating protection: drive	
	Overvoltages on the DC bus: drive Short-circuit between motor phases: drive	
	Thermal protection: drive	
	Input phase breaks: motor	
	Power removal: motor Thermal protection: motor	
Dielectric Strength	3535 V DC between earth and power terminals	
	5092 V DC between control and power terminals	
Insulation Resistance	> 1 mOhm 500 V DC for 1 minute to earth	
Frequency Resolution	Analog input: 0.024/50 Hz Display unit: 0.1 Hz	
Communication Port Protocol	Modbus CANopen	
Connector Type	1 RJ45 (on front face) for Modbus 1 RJ45 (on terminal) for Modbus Male SUB-D 9 on RJ45 for CANopen	
Physical Interface	2-wire RS 485 for Modbus	
Transmission Frame	RTU for Modbus	
Transmission Rate	4800 bps, 9600 bps, 19200 bps, 38.4 Kbps for Modbus on terminal	
	9600 bps, 19200 bps for Modbus on front face 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps for CANopen	
Data Format	8 bits, 1 stop, even parity for Modbus on front face 8 bits, odd even or no configurable parity for Modbus on terminal	
Type Of Polarization	No impedance for Modbus	
Number Of Addresses	1247 for CANopen 1247 for Modbus	
Method Of Access	Slave CANopen	
Option Card	Communication card for CC-Link	
	Communication card for DeviceNet Communication card for EtherNet/IP Communication card for Fipio Communication card for Interbus-S Communication card for Modbus Plus Communication card for Modbus/Uni-Telway Communication card for Profibus DP Communication card for Profibus DP V1	
	Communication card for Modbus TCP/IP Controller inside programmable card Basic I/O extension card	

Options For Enclosure	Safe standstill for power circuit			
Configuration	PTC relay for power circuit			
	Pt100 relay for power circuit			
	Insulation monitoring for power circuit			
	Design for IT networks for power circuit External 230 V supply terminals for power circuit Buffer voltage 24 V DC power supply for power circuit External 24 V DC supply terminals for power circuit			
	Enclosure lighting for power circuit			
	Key switch (local/remote) for power circuit			
	Motor heating for power circuit			
	External motor fan for power circuit			
	Voltmeter for power circuit			
	Door handle for main switch for power circuit			
	Circuit breaker for power circuit			
	Line contactor for power circuit			
	Ammeter for power circuit			
	Enclosure heating for power circuit			
	Motor choke for power circuit			
	Cable entry via the top for power circuit			
	Enclosure plinth for power circuit			
	Braking unit for power circuit			
	Door handle for circuit breaker for power circuit			
	Control terminals for control circuit			
	Adaptor for 115 V logic inputs for control circuit			
	Relay output C/O for control circuit			
	Isolated amplifier for control circuit			
Operating Position	Vertical +/- 10 degree			
Colour Of Enclosure	Light grey (RAL 7035)			
Height	2262 mm			
Width	600 mm			
Depth	642 mm			
Depth Net Weight	642 mm 345 kg			
· Net Weight	345 kg			
Net Weight  Environment	345 kg  1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5			
Net Weight  Environment	345 kg  1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5  Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6			
Net Weight  Environment	345 kg  1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5			
Net Weight  Environment	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2			
Net Weight  Environment	345 kg  1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4			
Net Weight  Environment	345 kg  1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to			
Net Weight  Environment  Electromagnetic Compatibility	345 kg  1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3			
Net Weight  Environment  Electromagnetic Compatibility  Pollution Degree	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11			
Net Weight  Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1			
Pollution Degree	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1  IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6			
Pollution Degree	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 3 conforming to EN/IEC 61800-5-1 IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1  IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance  Shock Resistance	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-2 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 3 conforming to EN/IEC 61800-5-1 IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27			
Net Weight  Environment  Electromagnetic Compatibility  Pollution Degree	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1 IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27 3M2 conforming to EN/IEC 60721-3-3  65 dB conforming to 86/188/EEC			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance  Shock Resistance	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1  IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27 3M2 conforming to EN/IEC 60721-3-3  65 dB conforming to 86/188/EEC  Without condensation: 3C2 conforming to IEC 60721-3-3			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance  Shock Resistance	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1 IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27 3M2 conforming to EN/IEC 60721-3-3  65 dB conforming to 86/188/EEC			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance  Shock Resistance  Noise Level  Environmental Characteristic	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1  IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27 3M2 conforming to EN/IEC 60721-3-3  65 dB conforming to 86/188/EEC  Without condensation: 3C2 conforming to IEC 60721-3-3 Without condensation: 3K3 conforming to IEC 60721-3-3			
Environment  Electromagnetic Compatibility  Pollution Degree  Ip Degree Of Protection  Vibration Resistance  Shock Resistance	1.2/50 μs - 8/20 μs surge immunity test level 3 conforming to IEC 61000-4-5 Conducted radio-frequency immunity test level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11  3 conforming to EN/IEC 61800-5-1  IP54  0.6 gn (f= 10200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 310 Hz) conforming to EN/IEC 60068-2-6 3M3 conforming to EN/IEC 60721-3-3  4 gn for 11 ms conforming to EN/IEC 60068-2-27 3M2 conforming to EN/IEC 60721-3-3  Without condensation: 3C2 conforming to IEC 60721-3-3 Without condensation: 3K3 conforming to IEC 60721-3-3 Without condensation: 3K3 conforming to IEC 60721-3-3 Without condensation: 3K2 conforming to IEC 60721-3-3			

<= 1000 m without derating 1000...3000 m with current derating 1 % per 100 m

-25...70 °C

600 m3/h

Ambient Air Temperature For Storage

Volume Of Cooling Air

Operating Altitude

Standards	EN/IEC 61800-5-1 EN 55011 class A group 2 EN 61800-3 environments 1 category C3 EN/IEC 61800-3 EN 61800-3 environments 2 category C3	
Product Certifications	GOST ATEX	
Marking	CE	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	216.0 cm
Package 1 Width	66.0 cm
Package 1 Length	61.6 cm
Package 1 Weight	345.0 kg

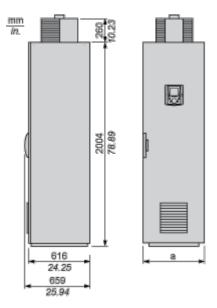
# **Contractual warranty**

Warranty 18 months

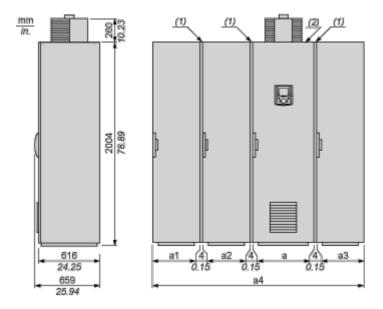
**Dimensions Drawings** 

### IP 54 Floor-Standing Enclosure Compact Version

#### **Standard Compact Floor-Standing Enclosure**



# Standard Compact Floor-Standing Enclosure + Additional Floor-Standing Enclosures, According to the Configuration



- (1) Seal. For each floor-standing enclosure added, allow a 4 mm/0.15 in. space for the seal.
- (2) Standard IP 54 compact version floor-standing enclosure.

NOTE: The position of the enclosures must be complied with during installation. The number of additional enclosures can vary according to the chosen configuration.

## **Product datasheet**

# ATV71EXC5C13N4

Options	а	a1	a2	a3	a4
With or without common options or options (3) dependent on the drive rating	616 mm/ 24.2 in.	_	_	_	616 mm/ 24.2 in.
Cable entry via the top option (4)	608 mm/ 23.9 in.	_	408 mm/ 16 in.	-	1020 mm/ 40.1 in.
Sinus filter option	608 mm/ 23.9 in.	_	_	608 mm/ 23.9 in.	1220 mm/ 48 in.

<sup>(3)</sup> Except sinus filter option, which requires an additional enclosure. The sinus filter option is not compatible with the cable entry via the top option.

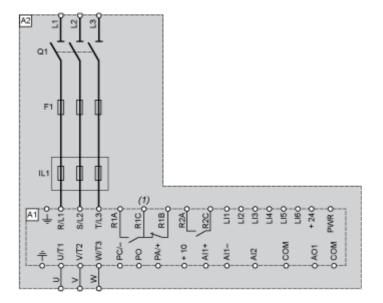
<sup>(4)</sup> The cable entry via the top option is not compatible with the sinus filter option.

### ATV71EXC5C13N4

### Connections and Schema

### Floor-Standing Enclosure Compact Version

### Wiring Diagram



- A1 Drive
- A2 Enclosure
- F1 Fast-acting semi-conductor fuse
- IL1 Line choke
- Q1 Switch
- (1) Fault relay contacts. For remote signalling of drive status.

### Product datasheet

### ATV71EXC5C13N4

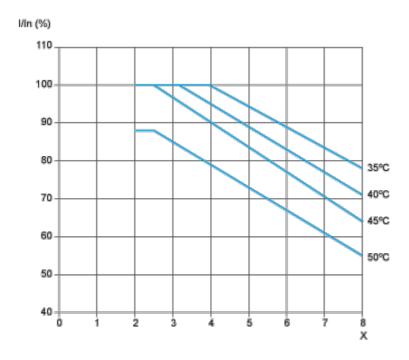
Performance Curves

### Ready to Use IP 54 Enclosure

#### **Derating Curves**

The derating curves for the drive nominal current (In) are dependent on the temperature and switching frequency. For intermediate temperatures, interpolate between 2 curves.

NOTE: The drive will reduce the switching frequency automatically in the event of excessive temperature rise.



X Switching frequency (kHz)

NOTE: The temperatures shown correspond to the temperature of the air entering the enclosure.