

*under preparation



**BONFIGLIOLI
VECTRON**

ACTIVE

INVERTER

230V single-three phase (2 sizes)

0.55 - 0.75 - 1.1 kW

1.5 - 2.2 - 3.0 kW

400V three phase (4 sizes)

0.55 - 0.75 - 1.1 kW

1.5 - 2.2 - 3.0 kW

4.0 - 5.5 - 7.5 kW

11.0 - 15.0 - 18.5 kW



BONFIGLIOLI

Power & Control Solutions



REACH BIONIC DRIVES WITH BONFIGLIOLI VECTRON

The introduction of the ACTIVE series extends BONFIGLIOLI VECTRON's delivery program of frequency inverters in the power range up to 18.5 kW.

With devices in the smallest possible construction size BONFIGLIOLI VECTRON is successfully continuing its way to bionic drives, for a conscious handling with material and energy.

The new highly functional frequency inverters ACTIVE make available almost all degrees of freedom for the solution of your automation system.

By the modular structure of the hardware, as well as the adjustable software and control functions the ACTIVE series fulfils the requirements of many applications on high standards.

The ACTIVE series appliances thus make their contribution to achieving excellent and reproducible operational results in your applications starting with a simple speed adjustment up to highly dynamic and complex servo applications.







Hardware:



STANDARD FEATURES

Software:



Removable operating unit with parameter copy function



Communication module



Extension module

- Intelligent current limits
- Mains monitoring
- Motor phase monitoring
- Speed sensor monitoring
- Overload protection
- Control of mechanical brake
- Motor chopper function for dynamic braking
- Programmable starting and stopping behaviour
- S ramp
- Motor potentiometer
- 4 complete data sets
- Parameter identification
- Auto start-up and commissioning
- Auto-start after power failure
- Auto reset after error
- PI controller
- Control of mechanical brake
- Automatic cycle and timer functions
- Volume flow control
- Load monitoring
- Torque/frequency reference changeover
- Enhanced positioning algorithm as standard
- Index and position controller
- System bus
- Integrated self-test
- Mean and peak value memory
- Warnings and fault signal memory



ACTIVE 400 0.55 - 3.0 kW			ACT 400						
			001	002	003	004	005	007	
Output									
Recommended motor power	P	kW	0.4/0.55	0.55/0.75	0.75/1.1	1.1/1.5	1.5/2.2	2.2/3.0	
Output current	I	A	1.3/1.8	1.8/2.4	2.4/3.2	3.2/4.2	4.2/5.8	5.8/7.8	
Output voltage	U	V	3 x 0 ... mains voltage						
Overload capacity	-	-	1.5 for 60s; 2.0 for 1s/1.2 per 60s; 1.5 per 1s						
Protection	-	-	short-circuit proof / earth-fault proof						
Rotary field frequency	f	Hz	0 to 400 depending on the switching frequency						
Switching frequency	f	kHz	2 to 16						
Dynamic brake resistor									
Min. brake resistor	R	Ω	930	634	462	300	220	148	
Protection	-	-	short-circuit						
Input									
Mains current 3ph/PE	I	A	1.8	2.4	2.8	4.2	5.8	6.8	
Mains voltage	U	V	320 to 528						
Mains frequency	f	Hz	45 to 66						
Fuses 3ph/PE	I	A	6				10		
Mechanical									
Dimensions	HxWxD	mm	190x60x175			250x60x175			
Weight (approx.)	m	kg	1.3			1.7			
Type of protection	-	-	IP20 (EN60529)						
Connection terminals	A	mm ²	0.2 to 1.5						
Type of installation	-	-	vertical						
Environmental conditions									
Power dissipation	P	W	40	46	58	68	87	115	
Coolant temperature	T _n	°C	0 to 40 (3K3 DIN IEC 721-3-3)						
Storage temperature	T _L	°C	-25 to 55						
Transport temperature	T _t	°C	-25 to 70						
Relative humidity	-	%	15 to 85, non-condensation						

ACTIVE 400 4.0 - 18.5 kW			ACT 400					
			010	014	018	025	034	040
Output								
Recommended motor power	P	kW	3.0/4.0	4.0/5.5	5.5/7.5	7.5/11	11/15	15/18.5
Output current	I	A	7.8/10	10/14	14/18	18/25	25/32	32/40
Output voltage	U	V	3 x 0 ... mains voltage					
Overload capacity	-	-	1.5 for 60s; 2.0 for 1s/1.2 per 60s; 1.5 per 1s					
Protection	-	-	short-circuit proof / earth-fault proof					
Rotary field frequency	f	Hz	0 to 400 depending on the switching frequency					
Switching frequency	f	kHz	2 to 16					
Dynamic brake resistor								
Min. brake resistor	R	Ω	106	80	58	48	32	24
Protection	-	-	short-circuit					
Input								
Mains current 3ph/PE	I	A	10	14.2	15.8	26	28.2	35.6
Mains voltage	U	V	320 to 528					
Mains frequency	f	Hz	45 to 66					
Fuses 3ph/PE	I	A	16		25	35		50
Mechanical								
Dimensions	HxWxD	mm	250x100x200			250x125x200		
Weight (approx.)	m	kg	2.7			3.8		
Type of protection	-	-	IP20 (EN60529)					
Connection terminals	A	mm ²	0.2 to 6			0.2 to 16		
Type of installation	-	-	vertical					
Environmental conditions								
Energy dissipation	P	W	115	145	200	240	310	420
Coolant temperature	T _n	°C	0 to 40 (3K3 DIN IEC 721-3-3)					
Storage temperature	T _L	°C	-25 to 55					
Transport temperature	T _t	°C	-25 to 70					
Relative humidity	-	%	15 to 85, non-condensation					

ACTIVE 200 0.55 - 3.0 kW			ACT 200					
			003	004	005	007	009	012
Output								
Recommended motor power	P	kW	0.4/0.55	0.55/0.75	0.75/1.1	1.1/1.5	1.5/2.2	2.2/3.0
Output current	I	A	2.4/3.0	3.0/4.0	4.0/5.5	5.5/7.0	7.0/9.5	9.5/12.5
Output voltage	U	V	3 x 0 ... mains voltage					
Overload capacity	-	-	1.5 for 60s; 2.0 for 1s/1.2 per 60s; 1.5 per 1s					
Protection	-	-	short-circuit / earth-fault					
Rotary field frequency	f	Hz	0 to 400 depending on the switching frequency					
Switching frequency	f	kHz	2 to 16					
Dynamic brake resistor								
Min. brake resistor	R	Ω	230	160	115	75	55	37
Protection	-	-	short-circuit					
Input								
Mains current 3ph/PE; 1ph/N/PE; 2ph/PE	I	A	3 5.4	4 7.2	5.5 9.5	7 13.2	9.5 16.5	10.5 16.5
Mains voltage	U	V	184 to 264					
Mains frequency	f	Hz	45 to 66					
Fuses 3ph/PE 1ph/N/PE; 2ph/PE	I	A	6 10		10 16		16 20	16 32
Mechanical								
Dimensions	HxWxD	mm	190x60x175			250x60x175		
Weight (approx.)	m	kg	1.3			1.7		
Type of protection	-	-	IP20 (EN60529)					
Connection terminals	A	mm ²	0.2 to 1.5					
Type of installation	-	-	vertical					
Environmental conditions								
Power dissipation	P	W	43	53	73	84	115	170
Coolant temperature	T _n	°C	0 to 40 (3K3 DIN IEC 721-3-3)					
Storage temperature	T _L	°C	-25 to 55					
Transport temperature	T _t	°C	-25 to 70					
Relative humidity	-	%	15 to 85, non-condensation					

EXTENSIONS

KP500	Operating unit with parameter copy function
KP232	RS232 KP500 adapter
VPlus	PC program for Windows operating systems
EM-SYS	System bus communication module

CM-232	RS232 connection
CM-485	RS485 connection
CM-CAN	CAN bus connection
CM-PDP	Profibus DP connection

Further extensions upon request

OPTIONS AND ACCESSORIES

	Size 1			Size 2			Size 3			Size 4		
	003	004	005	007	009	012						
ACT 200												
ACT 400	001	002	003	004	005	007	010	014	018	025	034	040
Line choke	external						external					
EMC filter	internal up to 10 m, external up to 50 m						internal up to 10 m, external up to 50 m			external		

The compliance of the ACTIVE frequency inverter according to cUL is being prepared.

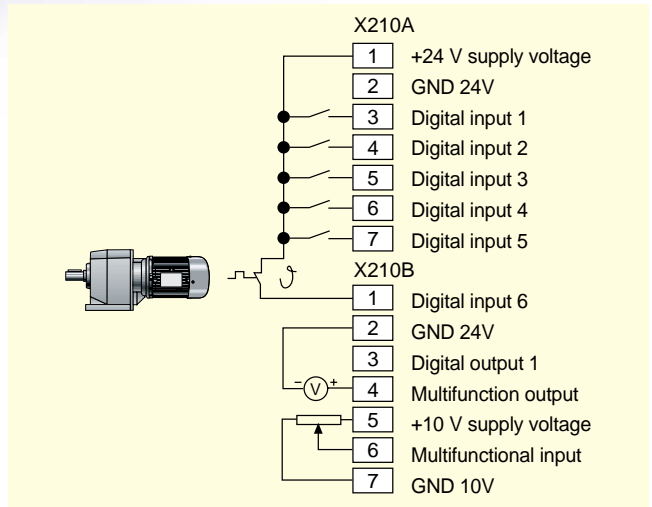
EU directives

All the models of the ACT series have been constructed and designed according to the requirements of the low-voltage directive 73/23/EEC (compliant with CE). If installed properly, they fulfil the EMC requirements of 89/336/EEC.



INPUTS AND OUTPUTS

The ACTIVE series provides you with standardised control connections across all power classes. The terminal meanings and its related operation depends on the control strategy selected.



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