

MOVITRAC® Advanced

Designed as a compact all-rounder, this inverters can control both synchronous and asynchronous AC motors with or without encoder, linear motors and LSPM motors in a variety of applications: from speed control to positioning. The product series allows for the direct connection to third-party controllers via industrial communication networks and fieldbuses or the operation with a MOVI-C® Controller.



Overall Features	<ul style="list-style-type: none"> • State-of-the-art control modes for optimal control performance • Overload capacity of 150% for 30s with PWM 4kHz • Integrated communication interfaces for different fieldbuses • Optional digital motor integration interface (MOVILINK® DDI) • Evaluation of HTL and MOVILINK DDI encoder • Configurable safety functions • Optional keypads and portable memory module • Integrated brake chopper
Practical benefits	<ul style="list-style-type: none"> ✓ Extremely easy startup using electronic name plate or electronic catalog ✓ Achieve your goal faster and more easily: ready-made MOVIKIT® software for a multitude of applications ✓ Easy startup of unknown motors using calibration function ✓ Energy- saving functions for partial-load or standby mode
Encoder Interfaces	<ul style="list-style-type: none"> • MOVILINK DDI encoder • HTL encoder for DRN motors
Communication Interface	EtherCAT®/SBus ^{PLUS} , EtherCAT® / CiA402, PROFINET, EtherNet/IP™, Modbus TCP, Powerlink / CiA402, binary
Control Modes	V/f, VFC ^{PLUS} , CFC, ELSM
I/O	6 DI, 2 DIO, + safe I/O with safety option modules
Safety	STO in PL d, SS1b or c, SBC, SLS, SSM, SDI. Communication via PROFIsafe and FSoE.
Ambient Temperature	32 deg Fahrenheit - 131 deg Fahrenheit / 0 deg Celsius - 55 deg Celsius (derating above 104 deg Fahrenheit)
Degree of Protection	IP20 / IP10 according to EN 60529 depending on size
Nominal Line Voltage	3 x AC 380V – 500V 3 x AC 200V – 240V 1 x AC 200V – 240V

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Performance Data	Size	Nominal output current at PWM = 4kHz	Recommended motor power ASM		Nominal line current		
For 3 x AC 380 V – 500 V Type designation MCX91A-.....-503-4..	0S	1A – 5.5A	0.25kW – 2.2kW	0.33Hp – 3Hp	0.9A – 5A		
	0L	7A – 16A	3kW – 7.5kW	4Hp – 10Hp	6.3A – 14.4A		
	3	24A	11kW	15Hp	21.6A		
	4	32A – 46A	15kW – 22kW	20Hp – 30Hp	28.8A – 41.4A		
	5	62A – 91A	30kW – 45kW	40Hp – 60Hp	55.8A – 81.9A		
	6	113A – 177A	55kW – 90kW	74Hp – 121Hp	102A – 159A		
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For 3 x AC 200 V – 240 V Type designation MCX91A-.....-2E3-4..	0S	1.7A – 5.5A	0.25kW – 1.1kW	0.33Hp – 1.5Hp	1.5A – 5A		
	0L	7A – 14A	1.5kW – 3.7kW	2Hp – 5Hp	6.3A – 12.6A		
	3	19.2A	5.5kW	7.5Hp	21.3A		
	4	29A – 42A	7.5kW - 11kW	10Hp – 15Hp	26.1A – 37.8A		
	5	57A – 84A	15kW – 22kW	20Hp – 29.5Hp	51.3A – 75.6A		
	6	108A	30kW	40Hp	97.2A		
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For 1 x AC 200 V – 240 V Type designation MCX9_A-.....-2E1-4-..	0S	1.7A – 4.2A	0.25kW – 0.75kW	0.33Hp – 1Hp	4.5A – 10A		
	0L	5.5A – 11A	1.1kW – 3kW	1.5Hp – 4Hp	13.3A – 24.9A		
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Dimensions	Size	0S	0L	3	4	5	6
	Width (mm)	80	80	105	135	196	240
	Height (mm)	303	392	440	440	471	544
	Depth (mm)	160	170	245	245	278	314