



new



VFD1A6ME21ANN



VFD4A8ME21ANN



VFD4A8MS21ANS



VFD32AMS43AFS

ME300/MS300 series - Vector control compact drive

The new compact **ME300** and **MS300** range of compact vector controlled drives offer standard essential built-in functionality which includes multi-pump control, built-in brake chopper, RS-485 (Modbus) and support both IM and PM motors.

Common features include:

- Easy to navigate keypad
- Bottom entry power and motor terminals
- 2x digital outputs (1x SPDT 1x transistor)
- Dual rating chart for ME/MS300 drives, see **Annex-11**
- Built-in PID feedback control and leakage detection function
- Pre-configured parameters for most commonly used applications
- High-efficiency cooling and compact design (for side-by-side installation)
- Multi motor control for operating more than one motor from the same drive
- Screwless terminals, spring clamp terminal block for fast and efficient wiring
- Overcurrent, overvoltage, overload, over-temperature and phase failure protection incorporated
- Enhanced PCB coatings (IEC 60721-3-3 class 3C2 standard) ensures drive operation in harsh environments



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type	motor rating	description	frame size	dimensions (mm)		
				(H)	(W)	(D)

ME300 series - Basic ultra-compact AC motor drives (VF/SVC open-loop control)

- High starting torque (up to 200% rated starting torque at 3 Hz)
- Supports side-by-side installation, with operating temp -20 to +40°C
- Supports high speed pulse (10kHz) and PWM (1kHz) frequency input signals
- Ultra compact frame sizes, up to 60% reduction compared to previous VFD-EL
- Front fascia with 4 digit LED display, frequency adjustment knob and direction - run/stop function keys

Single - phase input 180 - 264V 50/60Hz (three phase output voltage 230 VAC)

VFD1A6ME21ANN	200W	single-phase AC motor drive	A1	128	68	78
VFD2A8ME21ANN	400W	single-phase AC motor drive	A3	128	68	107
VFD4A8ME21ANN	750W	single-phase AC motor drive	B1	142	72	127
VFD7A5ME21ANN	1.5kW	single-phase AC motor drive	C1	157	87	136
VFD11AME21ANN	2.2kW	single-phase AC motor drive	C1	157	87	136

Three - phase input 380 - 480V 50/60Hz

VFD1A5ME43ANN	400W	three-phase AC motor drive	A4	128	68	113
VFD2A7ME43ANN	750W	three-phase AC motor drive	A6	128	68	127
VFD4A2ME43ANN	1.5kW	three-phase AC motor drive	B2	142	72	127
VFD5A5ME43ANN	2.2kW	three-phase AC motor drive	C1	157	87	136
VFD9A0ME43ANN	3.7kW	three-phase AC motor drive	C1	157	87	136
VFD13AME43ANN	5.5kW	three-phase AC motor drive	D1	207	109	138
VFD17AME43ANN	7.5kW	three-phase AC motor drive	D1	207	109	138

MS300 series - Standard compact AC motor drives (VF/SVC open-loop control)

- Built-in PLC functionality (2K steps)
- Supports high speed pulse (33kHz) frequency input signal
- High starting torque (up to 200% rated starting torque at 0.5 Hz)
- Built-in slot for optional communication modules (see page A-20)
- Integrated Safe Torque Off (STO) SIL2/PLD compliance, offers high safety machine stop
- Built-in EMC filter Class A (C2) effectively reduces electromagnetic interference (for 3 - phase only)
- Removable 5 digit LED keypad with function keys and frequency adjust knob for remote operation

Single - phase input 180 - 264V 50/60Hz (three phase output voltage 230 VAC)

VFD1A6MS21ANS	200W	single-phase AC motor drive	B3	142	72	159
VFD2A8MS21ANS	400W	single-phase AC motor drive	B3	142	72	159
VFD4A8MS21ANS	750W	single-phase AC motor drive	B3	142	72	159
VFD7A5MS21ANS	1.5kW	single-phase AC motor drive	C2	157	87	179
VFD11AMS21ANS	2.2kW	single-phase AC motor drive	C2	157	87	179

Three - phase input 380 - 480V 50/60Hz

VFD1A5MS43AFS	400W	three-phase AC motor drive	B3	142	72	159
VFD2A7MS43AFS	750W	three-phase AC motor drive	B3	142	72	159
VFD4A2MS43AFS	1.5kW	three-phase AC motor drive	B3	142	72	159
VFD5A5MS43AFS	2.2kW	three-phase AC motor drive	C2	157	87	179
VFD9A0MS43AFS	3.7kW	three-phase AC motor drive	C2	157	87	179
VFD13AMS43AFS	5.5kW	three-phase AC motor drive	D2	207	109	187
VFD17AMS43AFS	7.5kW	three-phase AC motor drive	D2	207	109	187
VFD25AMS43AFS	11.0kW	three-phase AC motor drive	E2	250	130	219
VFD32AMS43AFS	15.0kW	three-phase AC motor drive	E2	250	130	219
VFD38AMS43AFS	18.5kW	three-phase AC motor drive	F2	300	175	244
VFD45AMS43AFS	22.0kW	three-phase AC motor drive	F2	300	175	244

For ME/MS300 series accessories, see page A-20