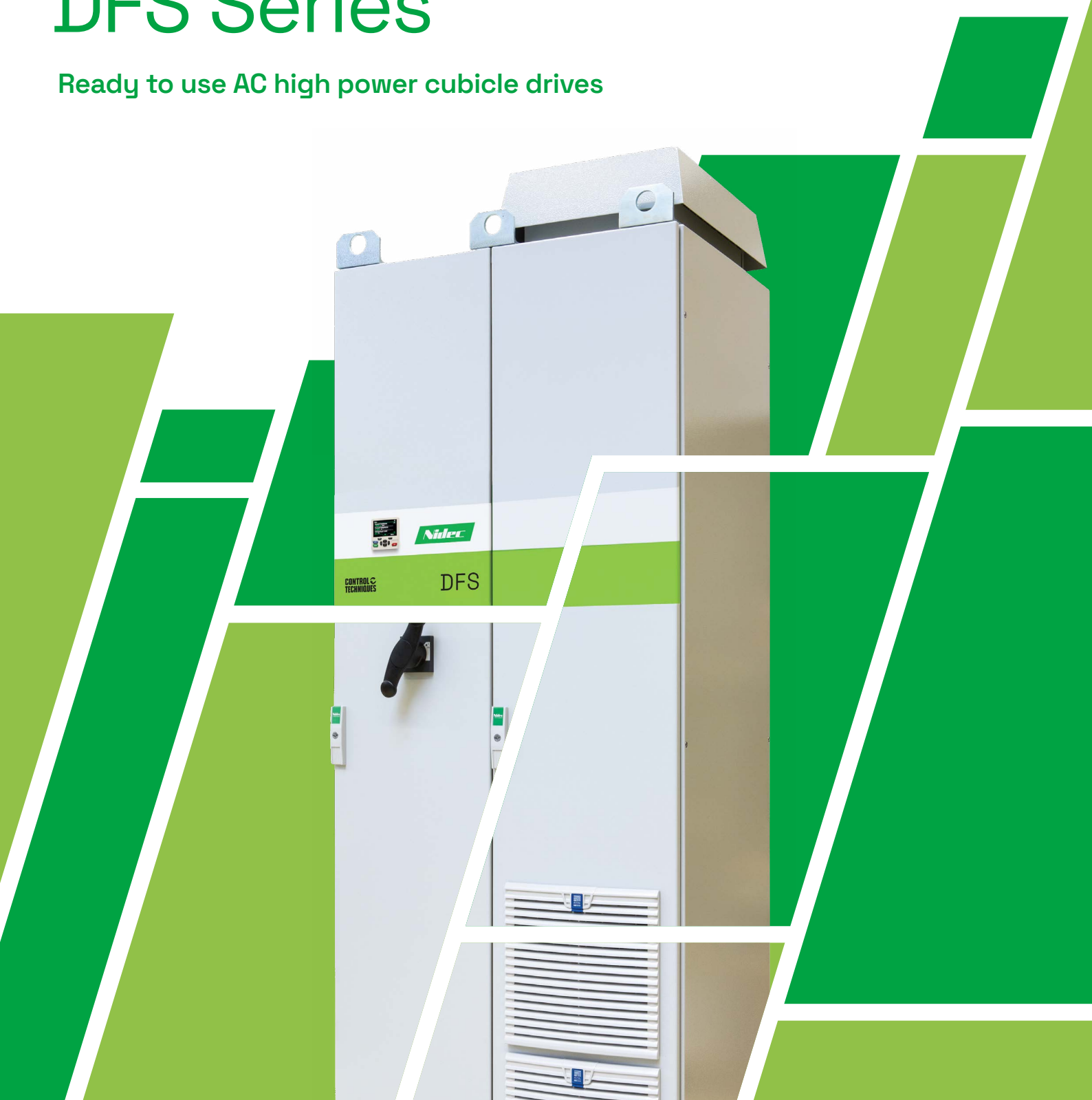




DFS Series

Ready to use AC high power cubicle drives



DFS Series

Pre-engineered & fully tested cubicle drives

Our Unidrive M600/M700, Pump Drive F600, HVAC Drive H300 and Elevator Drive E300 are now pre-engineered and packaged into robust, highly configurable Drive Free Standing (DFS) solutions. Saving you time and reducing engineering costs with easy configuration for stand-alone applications or as part of a broader system.

DFS is stocked and ready for fast deployment to minimise downtime in an emergency, or if your project requires a drive on a short lead time.



5-year warranty applies to the onboard drives only

No extra engineering required

- DFS is easy to install with fully tested IEC standard enclosures that include:
 - IP23 cubicle
 - Main circuit breaker (35kA IC)
 - Fuses and integrated medium impedance input line reactor
 - Output load sharing chokes for DFS2 and DFS3 models
 - Door mounted enhanced programming keypad with RTC feature and Bluetooth capability
 - Lifting eye bolts
 - Plinth base
- Broad range of option packages to meet various demanding applications and environments.
- Compact design minimises footprint.
- Serviceable design allows for fast and easy access to key components including fuses and drive modules. 500 kW / 700 hp power modules are mounted on nylon wheels and can be removed with optional pallet truck lifting kit and ramp for quick, safe, and easy servicing.
- Designing and building a high power drive cubicle takes immense engineering knowhow. Many companies don't have that expertise inhouse. But we do, and we've put it all into our DFS series.



CFE Media - Plant Engineering product of the year (Electric Motors & Drives Category)

DFS Series

Ordering information

M600, M70x, F600, H300 & E300 | 400 Vac |
3 phase input and output | 40°C (104°F)

Type / Frame	Motor shaft power (kW)		Max continuous current (A)		Drive	Order Code
	HD	ND	HD	ND		
DFS1-1-400	55	75	134	155	M700-084-01340A	M700-DFS1G4EN
DFS1-2-400	75	90	157	184	M700-084-01570A	M700-DFS1H4EN
DFS1-3-400	90	110	200	221	M000-094-02000AU	M700-DFS1J4EN
DFS1-4-400	110	132	224	266	M000-094-02240AU	M700-DFS1K4EN
DFS1-5-400	132	160	270	320	M000-104-02700EU	M700-DFS1L4EN
DFS1-6-400	160	200	320	361	M000-104-03200EU	M700-DFS1M4EN
DFS1-7-400	185	225	377	437	M000-114-03770EU	M700-DFS1N4EN
DFS1-8-400	200	250	417	487	M000-114-04170EU	M700-DFS1P4EN
DFS1-9-400	250	280	464	507	M000-114-04640EU	M700-DFS1Q4EN
DFS1-10-400	250	315	480	608	M000-124-04800TU	M700-DFS1R4EN
DFS1-11-400	315	355	566	660	M000-124-05660TU	M700-DFS1S4EN
DFS1-12-400	355	400	660	755	M000-124-06600TU	M700-DFS1T4EN
DFS1-13-400	400	500	720	865	M000-124-07200TU	M700-DFS1U4EN
DFS2-1-400	270	315	513	608	M000-104-02700EU-2S	M700-DFS2L4EN
DFS2-2-400	315	370	608	686	M000-104-03200EU-2S	M700-DFS2M4EN
DFS2-3-400	380	450	716	830	M000-114-03770EU-2S	M700-DFS2N4EN
DFS2-4-400	420	500	792	925	M000-114-04170EU-2S	M700-DFS2P4EN
DFS2-5-400	470	520	882	963	M000-114-04640EU-2S	M700-DFS2Q4EN
DFS3-1-400	580	670	1,074	1,245	M000-114-03770EU-3S	M700-DFS3N4EN
DFS3-2-400	640	750	1,188	1,388	M000-114-04170EU-3S	M700-DFS3P4EN
DFS3-3-400	710	780	1,322	1,445	M000-114-04640EU-3S	M700-DFS3Q4EN

Ratings

55 kW to 2.8 MW (75 to 4,200 hp)

380 to 480 Vac ($\pm 10\%$)

500 to 575 Vac ($\pm 10\%$)

500 to 690 Vac ($\pm 10\%$)

Easy to configure, ready to ship

- Simple to quote - Nidec Drives partners are equipped with an online configurator to build and quote solutions in minutes.
- Factory stocked complete systems to support emergency shipment (select sizes).
- Some configurations are available as normal stock items.

Check with your local Drive Centre or partner for current lead times.

Order code is based on the M700 drive. If you require another control pod, or higher power or voltage ratings, please contact your local Drive Centre or partner for a quote.

Factory options

Drive:

- Unidrive M600, M700, M701, M702
- F600 Pump Drive
- H300 HVAC Drive
- E300 Elevator Drive

Environment:

- Air Cooled IP23, IP44 and IP54
- Anti-condensation heaters
- Interior lighting options
- Plinth-base height options

Supply:

- Load switch release coil options (Under voltage/shunt trip)
- Provision for top or bottom entry cabling
- Harmonic mitigation options

Operator controls:

- Optional KI-Keypad Plus with enhanced display, easy-to-follow FastStart and flexible system monitoring
- Enclosure door handles and lock options

Motor:

- Dynamic braking options - E-stop, 10% effective duty
- Blower motor starters (forced ventilation)

Additional:

- Empty 400 mm wide bay with mounting panel for customer use
- Drive I/O can be brought down to customer terminal strip
- Incomer section isolation panel

DFS Series Dimensions



IP23 (IEC 60529)

Frame	Width		Height		Depth	
	mm	in	mm	in	mm	in
DFS1-1-400	400	15.8	2280	89.8	600	23.6
DFS1-2-400	400	15.8	2280	89.8	600	23.6
DFS1-3-400	400	15.8	2280	89.8	600	23.6
DFS1-5-400	400	15.8	2280	89.8	600	23.6
DFS1-7-400	400	15.8	2280	89.8	600	23.6
DFS1-8-400	2400	94.5	2280	89.8	600	23.6
DFS1-9-400	400	15.8	2280	89.8	600	23.6
DFS10-400	400	15.8	2170*/2280**	89.8*/85.4**	600	23.6
DFS11-400	400	15.8	2170*/2280**	89.8*/85.4**	600	23.6
DFS12-400	400	15.8	2170*/2280**	89.8*/85.4**	600	23.6
DFS13-400	400	15.8	2170*/2280**	89.8*/85.4**	600	23.6
DFS2-1-400	1200	47.2	2280	89.8	600	23.6
DFS2-2-400	1200	47.2	2280	89.8	600	23.6
DFS2-3-400	1200	47.2	2280	89.8	600	23.6
DFS2-4-400	1200	47.2	2280	89.8	600	23.6
DFS2-5-400	1200	47.2	2280	89.8	600	23.6
DFS3-1-400	1600	63.0	2280	89.8	600	23.6
DFS3-2-400	1600	63.0	2280	89.8	600	23.6
DFS3-3-400	1600	63.0	2280	89.8	600	23.6
DFS4-1-400	2400	94.5	2280	89.8	600	23.6
DFS4-2-400	2400	94.5	2280	89.8	600	23.6
DFS4-3-400	2400	94.5	2280	89.8	600	23.6
DFS6-1-400	3200	126.0	2280	89.8	600	23.6
DFS6-2-400	3200	126.0	2280	89.8	600	23.6

*IP21 (standard)
**High IP/Forced cooling

Select options may impact physical dimensions

©2025 Nidec Control Techniques Limited. The information contained in this brochure is for guidance only and does not form part of any contract. The accuracy cannot be guaranteed as Nidec Control Techniques Ltd have an ongoing process of development and reserve the right to change the specification of their products without notice.

Nidec Control Techniques Limited. Registered Office: The Gro, Newtown, Powys SY16 3BE.

Registered in England and Wales. Company Reg. No. 01236886.

