NFO Drives PWM

Energy Efficient Fan & Pump Control

NFO DRIVES

- AC Induction (IM) Motors
- AC Permanent Magnet (PM) Motors
- Brushless DC (BLDC) Motors
- Synchronous Reluctance (SynRM) Motors
- Safe Torque off (STO) as standard

Serial communication as standard:

- RS-485 Communication
- Modbus RTU
- BACnet MSTP

HVAC

Energy Efficient Air Handling

Creating comfortable building environments without high energy costs

Stairwell Pressurisation

Stairwell (escape route) pressurisation systems are being extensively employed in large buildings and complexes to help ensure the safe evacuation of occupants during a fire.

Fume Extraction

Many buildings now incorporate dedicated smoke management and extraction systems designed to safety extract smoke in the event of a fire.

Fire Override

Fire override mode ignores signals and alarms, keeping the Optidrive Eco HVAC operating for as long as possible.

PUMP CONTROL

- All drives operate at variable speed for maximum energy efficiency.
- Operating time (Hours Run) is automatically balanced and duty pumps rotated
- Automatic system reconfiguration in the event of a pump fault (including the master pump).
- Continued system operation when drives are individually powered off (including the master drive).

- Communication and +24V control voltage shared between drives via a standard RJ45 patch lead.
- Independent maintenance indicators for each pump.
- Any pump can be switched to Hand operation a the touch of a button, and will automatically rejoin the network when switched back to Auto.
- For waste water applications each pump can be set for blockage/ragging detection and activate an automatic de-ragging/pump cleaning cycle.
- Optional mains isolator with lock-off for safe pump maintenance.
- Optiflow function configured through simple parameter set-up and intelligent drive self configuration.





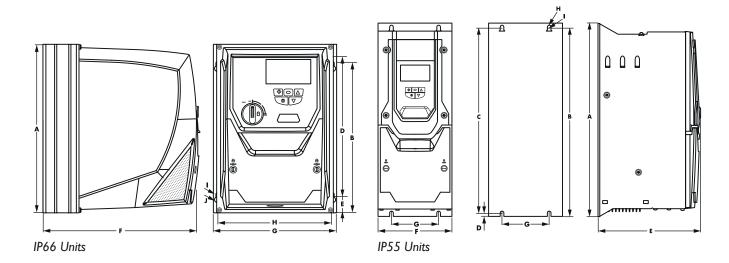
OPTIONAL FIELDBUS INTERFACES

- Bacnet/IP
- PROFIBUS DP
- DeviceNet
- EtherNet/IP
- Modbus TCP
- PROFINET
- EtherCAT



TECHNICAL INFORMATION

NFO DRIVES PWM



IP66 EN	IP66 ENCLOSED UNITS, 380 – 480 Volt, 3 Phase Input													
Non Switched	Frame	kW	HP	Amps	Low Harmonic									
NFO5B5D3220D	2A	0.75	1	2.2	Yes									
NFO5B5D3410D	2A	1.5	2	4.1	Yes									
NFO5B5D3580D	2A	2.2	3	5.8	Yes									
NFO5B5D3950D	2В	4	5	9.5	Yes									
NFO5C5D3141D	3	5.5	<i>7</i> .5	14	Yes									
NFO5C5D3181D	3	7.5	10	18	Yes									
NFO5C5D3241D	3	11	15	24	Yes									

IP55 ENCLOSED UNITS, 380 – 480 Volt, 3 Phase Input												
Model Code	Frame	Frame kW		Amps	Low Harmonic							
NFO5D4D3301D	4	15	20	30	Yes							
NFO5D4D3391D	4	18.5	25	39	Yes							
NFO5D4D3461D	4	22	30	46	Yes							
NFO5E4D3611D	5	30	40	61	Yes							
NFO5E4D3721D	5	37	50	72	Yes							
NFO5E4D3901D	5	45	60	90	Yes							
NFO5F4D3112D	6	55	75	110	No							
NFO5F4D3152D	6	75	100	150	No							
NFO5F4D3182D	6	90	150	180	No							

IP66 Units IP55 Units

Drive	A	В	D	E	F	G	н	1	J	Weight				В	D	E	F	G	Н	1	J	We	ight
Size	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	Ib	Size	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	lb
2	257	220	200	29	239	188	178	4.2	8.5	4.8	10.6	4	450	428	433	8	252	171	110	4.25	7.5	11.5	25.4
3	310	277	252	33	266	211	200	4.2	8.5	7.7	16.8	5	540	515	520	8	270	235	175	4.25	7.5	23	50.7
					•	•						6	865	830	840	10	330	330	200	5.5	11	55	121.2

