

## Variable Torque Inverter Drives (HVAC)



### Features

- Fast to install & commission
- Extremely low running cost
- Modbus RTU serial communications
- Integral RFI filter
- Eight pre-set speeds

### Specification

Supply voltage	3-phase, 380 to 480Vac $\pm$ 10%
Supply frequency	48 to 62Hz
Output ratings:	
Overload capacity	110% for 60 secs
Frequency	Up to 120Hz
Programming	Via keypad (PC or PDA - <i>contact CST for more information</i> )
Control method:	Voltage vector
Programmable I/O:	
3 x DI inputs	
2 x programmable AI inputs	
x programmable VFC outputs	
2 x programmable AO outputs	
Communications:	
BACnet, standard	
Modbus RTU	
Profibus DP (via gateway) - <i>contact CST</i>	
DeviceNet (via gateway) - <i>contact CST</i>	
Ambient (operational)	
Temp.	-10 to +40°C
Humidity	0 to 95% non-condensing
Altitude	0 to 2000m
	(de-rate 1% per 100m above 1000m)
Protection	IP55
Dimensions: <i>Frame type (H x W x D)</i>	
2	257 x 188 x 238mm
3	310 x 210.5 x 256mm
4	440 x 173 x 230mm
5	540 x 235 x 270mm
6	865 x 290 x 340mm
7	1280 x 330 x 370mm
Conformity	EN 61000-3-12, EMC
Country of origin	UK

### Applications

#### Pumps

- Distributes work load evenly between pumps for maximum productivity
- Sleep mode saves energy by detecting low or no flow, re starting when the pressure falls to the lower set point
- Dry pump protection shuts down the drive and sets off an alarm when the pump runs without generating the required pressure
- Maintains vital water supply by lowering flow in the event of a burst pipe or leak

#### Fans

- Can control air handling functions with valves, fans and dampers
- Allows easy skipping of frequencies at which connected fans create resonance in the ventilation system
- Provides immediate warning of a broken belt by monitoring current versus speed, reducing fan downtime
- Fire override mode ignores all signals and alarms, keeping the drive operating for as long as possible

### Product Codes

Please see next page.

#### Note:

**Full user/operating manuals are supplied with drives**

## Product Codes

	<i>Variable Torque</i>		
	<i>110% x 60 sec. Overload</i>		
	Output	Current	Frame
	(kW)	(A)	Type
<b>3-Phase, 380-480Vac Input with EMC Filter</b>			
<b>ID-24150-3KF1N</b>	1.5	4.1	2
<b>ID-24220-3KF1N</b>	2.2	5.8	2
<b>ID-24400-3KF1N</b>	4	9.5	2
<b>ID-34055-3KF1N</b>	5.5	14	3
<b>ID-34075-3KF1N</b>	7.5	18	3
<b>ID-44110-3KF1N</b>	11	25	4
<b>ID-44150-3KF1N</b>	15	29.5	4
<b>ID-44185-3KF1N</b>	18.5	39	4
<b>ID-44220-3KF1N</b>	22	46	4
<b>ID-54300-3KF1N</b>	30	61	5
<b>ID-54370-3KF1N</b>	7	72	5
<b>ID-54450-3KF1N</b>	45	90	5
<b>ID-64550-3KF1N</b>	55	110	6
<b>ID-64750-3KF1N</b>	75	150	6
<b>ID-64900-3KF1N</b>	90	180	6
<b>ID-64110-3KF1N</b>	110	202	6
<b>ID-74132-3KF1N</b>	132	240	7
<b>ID-74160-3KF1N</b>	160	302	7
<b>ID-74200-3KF1N</b>	200	370	7