

Yolico

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YDS8000
Advanced Inverter
for IM/PM/IPM Motor

*Detailed Work Makes Quality
Our Quality Equals Perfection*



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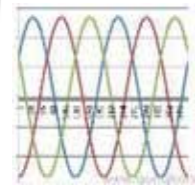
ISO9001 

for various motors

YDS8000 Functions



Open / Close-Loop driving



Servo Motor



PM Synchronous Motor



AC Asynchronous Inverter Motor



AC Asynchronous Servo Motor

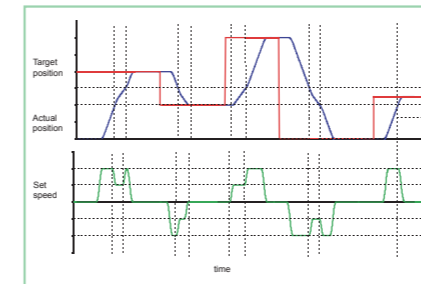


AC Asynchronous Motor

Position Control
Synchronous Control
Torque Control
PID Control
Speed Control

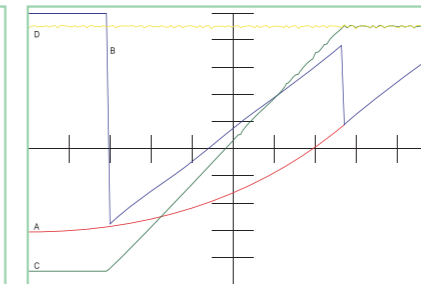
Voltage
400VAC

Power Range
0.75~315kW



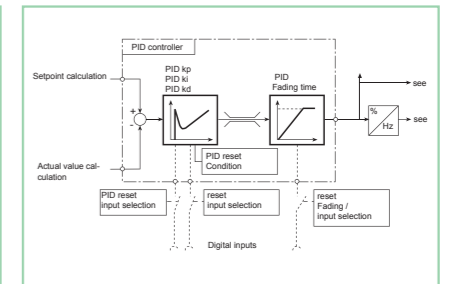
Position Control

16 Position Index for P to P Control
Approach to REF Point by Software / Hardware Limit
Relative or Absolute Moves
Programmable Electric Gearing



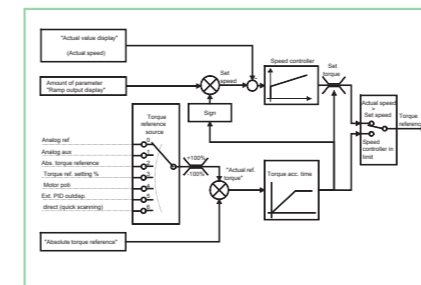
Synchronous Control

Speed synchronization
Angle synchronization
Angle adjustment
Programmable Electric Gearing
Master-Slave Motion Control



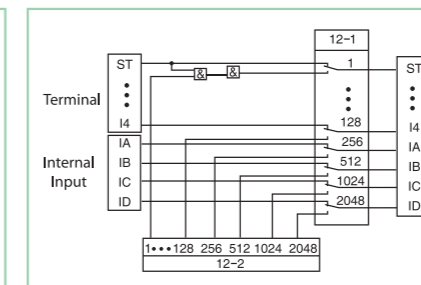
PID Control

Achieve a variety of process control
The reference value can accumulate
PID with feedforward control
Integral can be reset
Multi-Target Reference Source



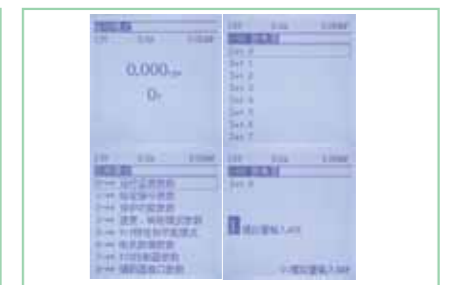
Torque Control

Multi-Torque Reference Source
Open-Loop Torque Control is available
Programmable Electric Gearing



Control Terminals

8 programmable Digital Inputs:
PNP/ NPN Logic selectable
2 programmable Analog Inputs:
-10~+10V, 0~20mA, 4~20mA
2 programmable Relay Outputs: Form-C
2 programmable Analog Outputs: 0~10V
2 programmable Transistor Digital Outputs: +24V
ST Enable Terminal



Parameter

All Parameters in up to 8 sets
Customized Parameters (CP)
Parameter access Level by Password
Monitor Data up to 93
Big LCD Display

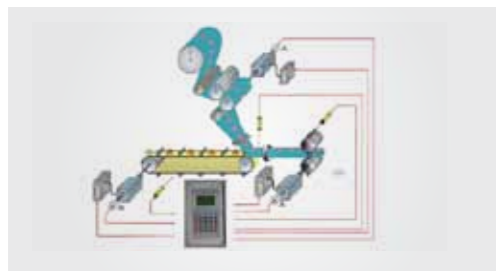
more and more Applications



CNC



Printing



Flying Cutting



Packing



Textile



Extruder



Elevator/Lift



Logistics



Dyeing



Mining/Steel

YDS8000 Type Code Number

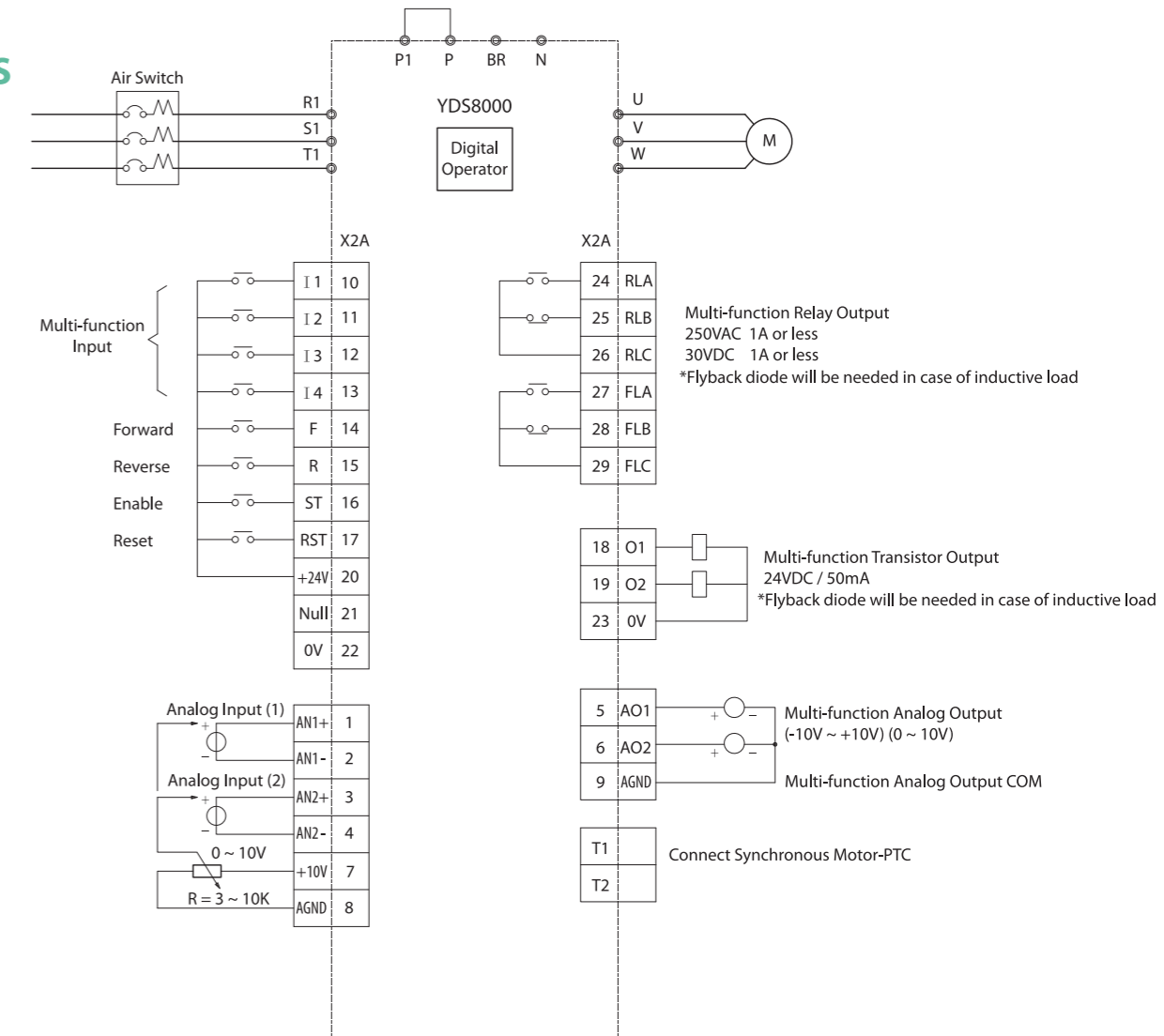
Inverter YDS 8 XXX TX - X - B

- E: Synchronous Open-Loop Operating, -S or Blank: Standard Type
- H: High Performance Asynchronous Operating without PG Vector
- B: Braking Transistor Installed
- Voltage: T2 for AC220V / T4 for AC400V / T6 for AC690V
- Applicable Motor Capacity, for example 030 = 30kW
- 8000 Series
- YOLICO High performance Servo type Inverter

PG Card YDS - XX X XX

- Channel 2 Input / Output: T1 = TTL Input, T0 = TTL Output
- 1 : for 0.75kW ~ 15kW, 2 : for 18.5kW and above
- Channel 1 Input (DB15): PG = Open Collector Incremental, RV = Resolver
- SI : SIN/COS, EN : ENDAT, UV : UVWABZ Incremental, HF : HIPERFACE for YDS8000

Connections (Diagram)



YDS8000 Standard Specification

YDS8000		0P7	1P5	2P2	4P0	5P5	7P5	11	15	18P5	22	30	37	45	55	75	90	110	132	160	200	250	315	
Frame size		* F2				F3				F4			F5			F6		F7	F8	F9				
Applicable Motor Capacity (kW)		0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315	
Rated Output	Capacity (kVA)	1.8	2.8	4	6.6	8.3	11	17	23	29	35	42	52	62	80	104	125	145	173	208	256	319	395	
	Rated Output Current (A)	2.6	4.1	5.8	9.5	12	16.5	24	33	42	50	60	75	90	115	150	180	210	250	300	370	460	570	
	Rated Carrier Frequency	8K	8K	8K	8K	8K	8K	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	2K	2K	2K	2K	2K	
	Min. Braking Resistor	120	120	82	82	39	39	39	25	25	13	13	9	9	9	5	4	4	4	4	1.2	1.2	1.2	
	Standard Braking Resistor	620	390	270	150	110	85	56	42	30	22	15	12	10	9	6.7	5	4.3	4.3	4.3	2.2	1.7	1.3	
	Max. Braking Current (A)	7.5	7.5	10	10	21	21	21	32	30	63	63	88	88	88	160	200	200	200	200	660	660	660	
Max. Output Voltage(V)	3Ø 380 ~ 460V(Proportional to Input Voltage)																							
Rated Output Frequency	Up to 400Hz (Available by Programming)																							
Power Supply	Voltage, Frequency	3Ø 380 ~ 460V, 50/ 60Hz																						
	Allowable Voltage Fluctuation	+10%, -15%																						
	Allowable Frequency Fluctuation	±2Hz																						
	Cooling Method	Force Cooling																						
Control Characteristic	Control Method	Open / Close - Loop (Absolute Encoder, Incremental Encoder, Resolver) for Asynchronous/Synchronous Motor																						
	Overload Capacity	150% Rated Current for 1 minute																						
	Overcurrent Capacity	180% Rated Current																						
	Over Voltage	Main Circuit Common DC Bus Voltage DC820V																						
	Under Voltage	Main Circuit Common DC Bus Voltage DC390V																						
	Overheat Protection	90°C																						
Environment	Degree of Protection	IP20																						
	Ambient Operating Humidity	95% RH max. Non-Condensing																						
	Ambient Operating Temperature	-10°C ~ +45°C																						
	Storage Temperature	-25°C ~ +70°C																						
	EMC Standard	Comply with EN61800-3																						
Vibration	9.8m/S ² less than 20Hz up to 1.96m/S ² at 20Hz to 50Hz																							

* F2 under development

Option Cards

CANopen

DeviceNet

ETHERNET
TCP/IP

PROFI
BUS

PROFI
NET

Dimensions

