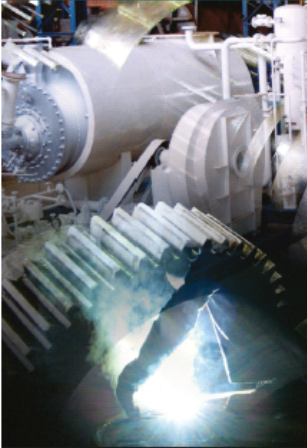


MINIDRIVE PSD 300 (SOLAR INVERTOR)



Minilec offers various advantages of indigenous design for Solar applications with suitable protection.

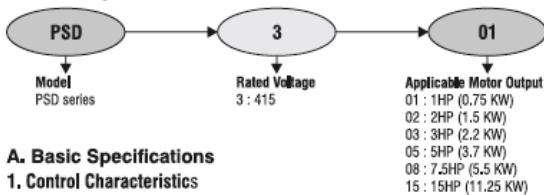
Variable Frequency AC DRIVES (PSD 300 SERIES)

Model Name	PSD 301	PSD 302	PSD 303	PSD 305	PSD 308	PSD 315
Horse Power	1	2	3	5	7.5	15
Rated Motor (KW)	0.75	1.5	2.2	3.7	5.5	11.25
Rated Current (Amp)	2.3	3.8	5.2	8.8	13.0	26
Input Voltage	AC 3 Phase, 380-460V +/-10%, 50Hz +/-5%					
Output Voltage	AC 3 Phase, 0V - Proportionate to INPUT V					

Mechanical Details

Model Name	PSD 301	PSD 302	PSD 303	PSD 305	PSD 308	PSD 315
Over all Dimensions (In mm)						
Width (W)	182	182	196	196	214	214
Depth (D)	195	195	195	195	232	237
Height (H)	232	232	232	232	235	360
Mounting Dimensions (In mm)						
Width (W)	180	180	194	194	211	211
Depth (D)	195	195	195	195	232	237
Height (H)	268	268	268	268	272	397

Model Coding



A. Basic Specifications

1. Control Characteristics

- Carrier Frequency • Frequency Control Range • Frequency Accuracy
- Frequency Resolution • Frequency Setting Control • ACCEL. / DECEL. Time • V/F pattern • Auto Restart • Auto Frequency Change

2. Protection Functions

- Instantaneous Over current • Motor Overload Protection • DC Link Over Voltage • DC Link Under Voltage Protection • Heat Sink Fin Overheat • Dry Run

B. Functional Specifications

1. Operation

Input Signal Operating Signal : Forward / Reverse Operation, Individual Command

Reset : Released Protection while the Protection is Operating

Multifunction Input (SP1, SP2, SP3) : • Multispeed 1 • Multispeed 2 • Multispeed 3 • Jog Frequency Reference • Emergency stop • Base block • Energy saving • Sequence control

Serial Communication : RS232 Modbus RTU Protocol

Output signal : • Trip relay fault output : 250VAC 1A, 30VDC 1A or less (For OL1 only) • Sync relay : 30V, 35mA

Built-in Function : Upper / Lower limit, frequency meter calibration, Torque boost, Energy save, Process timer, AVR, DC injection braking, Built in

Dynamic Braking IGBT (Need to connect external Braking Resistor), Ground Fault protection using external optional ZCT.

Digital Operator Monitor : Frequency command, output frequency, output current, Output Voltage, Speed, DC Bus Voltage, Rotating Direction

Analog Output Monitor : Analog output (0-10V), Possible to select output frequency & Setting Frequency, Output voltage, DC Bus Voltage

- Maximum operating frequency • Torque boost • Stall prevention during Accel. / Decel. / constant speed • Auto restart function • Built in AVR function • 7 - Button keypad for easy operation • One output relay contact for trip / control circuit.

2. Environment Condition

Location : Indoor (protected from corrosive gas and dust), Ambient Temperature : 0°C - 40°C, Cooling : Forced air-cooling, 8 V/F Patterns, One pattern Programmable, 8-step multispeed (applicable for built in Timer with sequence control).

Accessories

Ground Fault Protection - ZCT, EMI Filter, DC Braking Resistor, Communication Software, RS232 to RS485 Converter.

