

Series 5 Micro Inverters

1/2 thru 2 Hp
1/2 thru 2 Hp
2 thru 3 Hp
1 thru 5 Hp

97-132 VAC
195-265 VAC
195-265 VAC
323-529 VAC

1 Phase - 50/60 Hz
1 Phase - 50/60 Hz
3 Phase - 50/60 Hz
3 Phase - 50/60 Hz



Applications: Variable torque, constant torque or constant horsepower applications. New installations, replacements and original equipment manufacturers (OEM).

Features: NEMA 4X or open chassis mount standard. Output frequency 0.25 to 120 Hz with peak overload capacity of 150%. Separate accel/decel rates and controlled reversing.

Design Specifications

- PWM output
- Accel/decel rate adjustment
- Controlled reversing
- Adjustable current limit
- I²t motor overload protection
- Adjustable slip compensation
- Min/max output frequency adjustment
- Selectable auto/manual restart

Operator Interface- Enclosed Units

- Start/Stop command
- NEMA 4X enclosure
- Power on/off
- Rotary speed control
- Fwd/Rev optional
- Auto/Manual optional

Environmental and Operating Conditions

- Input voltage:
 - 1 phase 115 VAC ±15%,
 - 1 phase 230 VAC ±15%
 - 3 phase 230V ±15%
 - 3 phase 460 ± 15%
- Input frequency: 50 or 60Hz ±10%
- Service factor - 1.0
- Duty - continuous
- Humidity - 90% max RH non-condensing
- Altitude - 3300 feet max without derate
- Chassis mount or NEMA 4X enclosure as standard

Protective Features

- Selectable automatic restart at momentary power loss
- Power indicator
- Status indicator
- Adjustable time base overload
- Electronic in rush current limiting

Output Ratings	Overload Capacity	150% for 120 seconds		
	Voltage - 3 Phase	0-230 VAC (RMS), 0-460 V AC (RMS)		
Control Spec	Control Method	Sinewave carrier input, PWM output		
	PWM Frequency	Rated 8.0 kHz		
	V/Hz Ratio	Factory set for optimum output		
	Torque Boost	Factory set for 60 Hz motors. Adjustable 6-30% for 50 Hz motors	Adjustable 0-30% max	
	Current Limit	Adjustable 63 to 188% of rated output	0-200%	
	Frequency Setting	0-5 VDC, 0-10 VDC with external resistor network, non-isolated input		
	Accel/Decel	Separate accel/decel rates, 0.3-20 sec for 60 Hz motors	0.3-20 Sec	
	Combined accel/decel for 50 Hz motors			
Protective Functions	Inverter Trip	Over voltage, over current, under voltage, motor overload, output short circuit		
	Status Indicators	Tricolor LED indicator for status and green LED indicator for power on		
	Short Circuit	Output phase to phase		
Ambient Conditions	Temperature	0-45°C	0-50°C	
	Cooling	Convection 1/2 - 2 Hp; Forced Air 3-5 Hp	Convection	
	Enclosure	Open chassis	NEMA 4X (IP65)	

Series 5 Micro Inverters continued...

Hp/kW	Input Voltage	Output Current		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Dimensions in/(mm)				
		Cont.	120 Sec.					Outside			Mounting	
								H	W	D	H	W
Open Chassis Mount – Single Phase Input												
0.5/0.37	115/230	2.4	3.6	ID56F50-CO	383	E9	4	4.3	3.9	2.75	3.8	2.5
1/0.75	115/230	4	6	ID5601-CO	464	E9	5	4.3	3.9	5	3.87	3.7
2/1.5	115/230	5.5	8.25	ID5602-CO	603	E9	6	4.67	5.58	5.7	3.87	2.5
Open Chassis Mount – Three Phase Input												
2/1.5	230	6.7	10.1	ID5202-CO	731	E9	5	8.55	4.68	4.5	6.5	3.9
3/2.25	230	8.8	13.2	ID5203-CO	770	E9	5	8.55	4.68	4.5	6.5	3.9
1/0.75	460	2.5	3.75	ID5401-CO	796	E9	5	8.55	4.68	4.5	6.5	3.9
2/1.5	460	4	6	ID5402-CO	817	E9	5	8.55	4.68	4.5	6.5	3.9
3/2.25	460	4.5	6.75	ID5403-CO	840	E9	5	8.55	4.68	4.5	6.5	3.9
5/3.7	460	7.6	11.4	ID5405-CO	1,072	E9	5	8.55	4.68	4.5	6.5	3.9
NEMA 1 Enclosed - Single Phase Input												
1/0.75	115/230	4	6	ID5601-EO	559	E9	6	7.13	6.25	2.75		
NEMA 4X Enclosed – Single Phase Input												
1/0.75	115/230	3.6	5.4	ID5601-WO	740	E9	6	9.53	5.51	5.86	8.85	-
1/0.75	115/230	3.6	5.4	ID5601-BO	694	E9	6	9.53	5.51	5.86	8.85	-
2/1.5	115/230	5.5/6.7	8.3/10.0	ID5602-WO	1,044	E9	6	9.8	7.55	7.25	9.25	1
2/1.5	115/230	5.5/6.7	8.3/10.0	ID5602-BO	985	E9	8	9.8	7.55	7.25	9.25	1
NEMA 4X Enclosed – Three Phase Input												
3/2.25	230	9	13.5	ID5203-WO	1,183	E9	6	9.8	7.55	7.25	9.25	1
3/2.25	230	9	13.5	ID5203-BO	1,125	E9	6	9.8	7.55	7.25	9.25	1
3/2.25 (1)	460	4.6	6.9	ID5403-WO	1,253	E9	6	9.8	7.55	7.25	9.25	1
3/2.25 (1)	460	4.6	6.9	ID5403-BO	1,194	E9	6	9.8	7.55	7.25	9.25	1
5/3.7	460	8.3	12.45	ID5405-WO	1,333	E9	6	9.8	7.55	7.25	9.25	1
5/3.7	460	8.3	12.45	ID5405-BO	1,276	E9	6	9.8	7.55	7.25	9.25	1

(1) Jumper configurable for 1 HP and 2 HP

NOTE: -WO is white in color -BO is black in color; -EO is NEMA 1.

Series 5 Options

Catalog Number	Description	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
ID5RGA-1	Dynamic braking kit for open chassis 115/230V 1/2 Hp and 1 Hp rated controls	236	E9	3
ID5SI-1	Signal isolator for open chassis units Provides isolation for up to 24 VDC and 4-20mA command signals and run relay output. Select relay as N.O. or N.C. contacts rated at 125 VAC @ 0.5A	206	E9	4
ID5SI-2	Signal isolator for NEMA 4X enclosed units Provides isolation for up to 24 VDC and 4-20mA command signals.	233	E9	1
ID5AMS-1	Auto/Manual selection switch for NEMA 4X enclosed units Allows selection of remote or on-board speed commands	57	E9	1
ID5FRS-1	Forward/Stop/Reverse selection switch for NEMA 4X enclosed units Allows selection of forward or reverse motor direction commands	32	E9	1
ID5FRS-2	Forward/Stop/Reverse selection switch for NEMA 1 enclosed units. Allows selection of forward or reverse motor direction commands.	32	E9	1

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes