

GEARMOTOR SELECTION STEPS

Refer to page **20** for instructions on Selecting a Gearmotor Mounting Package and Gearmotor.

GEARMOTOR TYPE	Conveyor Load - lbs. (kg)											
	Standard Load						Heavy Load					
	10 (4.5)	20 (9.1)	30 (13.6)	40 (18.2)	50 (22.7)	60 (27.3)	70 (31.8)	80 (36.4)	90 (40.9)	100 (45.5)	110 (50)	120 (54.5)
0-15 (0-4.6)												
16-30 (4.9-9.1)												
31-45 (9.5-13.7)												
46-60 (14-18.3)												
61-75 (18.6-22.9)												
76-90 (23.2-27.4)												
91-110 (27.7-33.5)												
111-130 (33.8-39.6)												
131-150 (39.9-45.7)												
151-175 (46-53.4)												
176-200 (53.7-61)												
201-225 (61.3-68.6)												
226-250 (68.9-76.2)												
251-275 (76.5-83.8)												

STANDARD LOAD, FIXED SPEED

Chart 1 Parallel Shaft

- Sealed gearmotor
- IP 65 protection rating
- 115V, 1 phase includes starter, cords and plug
- 230V, 3 phase wiring to starter by others
- Stainless steel shaft and fasteners
- FDA approved white epoxy paint
- Totally enclosed, non-ventilated
- 60 Hz

3 Phase starter shown

Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm
			Hp	kW	FLA	Hp	kW	FLA		
62M030PY4(vp)FN	50	Y	0.12	0.09	1.51	0.12	0.09	0.49	77	8.7
62M009PY4(vp)FN	167	Y	0.12	0.09	1.51	0.12	0.09	0.49	26	2.8

(vp) = Voltage and Phase 11 = 115V, 1 phase 23 = 230V, 3 phase

Note: 115V 1 phase gearmotor must be plugged into a GFI circuit

Chart 2 CE Parallel Shaft

- Sealed gearmotor
- IP 65 protection rating
- 230V, 3 phase wiring to starter by others
- 50 Hz
- Stainless steel shaft and fasteners
- FDA Approved white epoxy paint
- Totally enclosed, non-ventilated

3 Phase starter shown

Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm
			62(c)030PY423FN	42	
62(c)009PY423FN	139	Y	0.09	0.49	2.8

(c) = Electrical Configuration U = CE Great Britain G = CE German

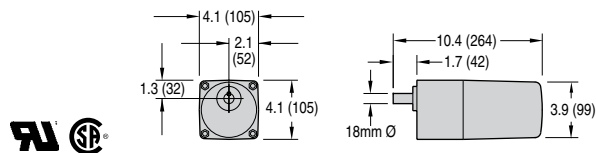
CE Note: Customer wiring to starter must comply with CE safety directives.

FLA = Full Load Amperes

STANDARD LOAD, VARIABLE SPEED

Chart 3 Parallel Shaft

- Variable frequency drive, 10-60 Hz
- IP 65 protection rating
- 230V, 3 Phase
- Stainless steel shaft and fasteners
- FDA approved white epoxy paint
- Totally enclosed, non-ventilated
- Order controller separately, see page 28

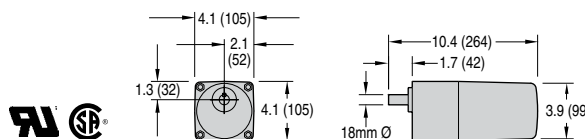


Part Number	RPM*	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts
62M030PY4(vp)FN	50	Y	0.12	0.09	0.49	77	8.7	G
62M009PY4(vp)FN	167	Y	0.12	0.09	0.49	26	2.8	G

* At 60 Hz

Chart 4 CE Parallel Shaft

- Totally enclosed, fan cooled
- IP44 protection rating
- Non-reversing
- 50 Hz
- Order starter separately, see page 28



Part Number	RPM*	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm*	Vari - Speed Control Charts
62Z028PL421FN	41	L	0.022	0.31	2.6	H
62Z028PL4(vp)FN	41	L	n/a	n/a	3.5	H
62Z008PL421FN	144	L	0.022	0.31	0.9	H
62Z008PL4(vp)FN	144	L	n/a	n/a	1.2	H

* At 50 Hz

CE Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

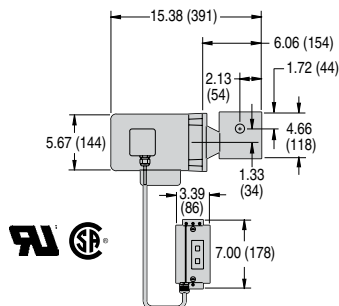
FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

HEAVY LOAD, FIXED SPEED

Chart 5 90°

- NEMA 56 C face
- IP 55 protection rating
- Wiring to starter by others
- Sealed reducer with FDA lubricant
- FDA approved white epoxy paint
- UL and CSA approved
- 60 Hz
- Totally enclosed, Non-ventilated
- 1 Phase gearmotor does not include plug/cord set



(r) = Output shaft orientation
 R = Right hand
 L = Left hand
 (vp) = Voltage and Phase
 11 = 115V, 1 phase
 23 = 208 - 230V, 3 phase
 43 = 460V, 3 phase

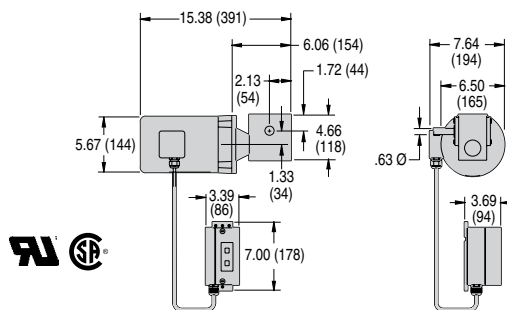
Right hand output shown

Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm
			Hp	kW	FLA	Hp	kW	FLA		
62M050(r)Z4(vp)FN	35	Z	0.5	0.37	6.8	0.5	0.37	1.8-1.6 / 0.8	380	42.9
62M015(r)Z4(vp)FN	115	Z	0.5	0.37	6.8	0.5	0.37	1.8-1.6 / 0.8	146	16.5
62M005(r)Z4(vp)FN	345	Z	0.5	0.37	6.8	0.5	0.37	1.8-1.6 / 0.8	55	6.2

Chart 6 90°

Stainless Steel Gearmotor

- Stainless steel construction
- NEMA 56 C face
- IP 55 protection rating
- Wiring to starter by others
- Sealed reducer with FDA lubricant
- UL and CSA approved
- 60 Hz
- Totally enclosed, non-ventilated



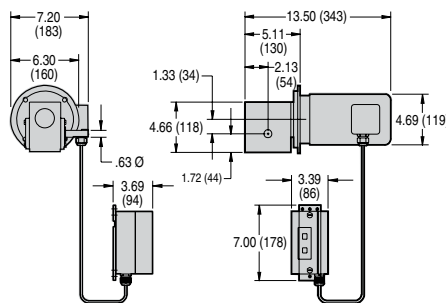
(r) = Output shaft orientation
 R = Right hand
 L = Left hand
 (vp) = Voltage and Phase
 23 = 208 - 230V, 3 phase
 43 = 460V, 3 phase

Right hand output shown

Part Number	RPM	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.	Nm
			62M050(r)ZS4(vp)FN	35	ZS		
62M015(r)ZS4(vp)FN	115	ZS	0.5	0.37	1.8-1.6 / 0.8	146	16.5
62M005(r)ZS4(vp)FN	345	ZS	0.5	0.37	1.8-1.6 / 0.8	55	6.2

Chart 7 CE 90°

- IEC 71 B5 C face
- IP 55 protection rating
- 230/400V, 3 Phase wiring to starter by others
- 50 Hz
- FDA approved white epoxy paint
- Sealed reducer with FDA lubricant
- Totally enclosed, non-ventilated



Right hand output shown

Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm
62(c)050(r)Z4(vp)FN	29	Z	0.19	1.2 / 0.7	50.1
62(c)015(r)Z4(vp)FN	97	Z	0.19	1.2 / 0.7	19.9
62(c)005(r)Z4(vp)FN	290	Z	0.19	1.2 / 0.7	7.2

(c) = Electrical Configuration (r) = Output shaft orientation (vp) = Voltage and Phase
 G = CE German R = Right hand 23 = 230V, 3 phase
 U = CE Great Britain L = Left hand 43 = 400V, 3 phase

CE Note: Customer wiring to starter must comply with CE safety directives.

FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

HEAVY LOAD, VARIABLE SPEED

Chart 8		90°						
<ul style="list-style-type: none"> 90V DC IP 55 protection rating NEMA 56 C face Totally enclosed, non-ventilated Sealed reducer with FDA lubricant FDA approved white epoxy paint Order controller separately, see page 28 							<p>(r) = Output shaft orientation R = Right hand L = Left hand</p> <p style="text-align: right;"><i>Left hand output shown</i></p>	
Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari - Speed Control Charts
62M050(r)ZD9DEN	35	Z	0.33	0.25	3.2	360	42.9	F
62M015(r)ZD9DEN	115	Z	0.33	0.25	3.2	146	16.5	F
62M005(r)ZD9DEN	345	Z	0.33	0.25	3.2	55	6.2	F

Chart 9		90°						
<ul style="list-style-type: none"> Variable frequency drive, 10-60 Hz IP 65 protection rating 230V, 3 Phase Stainless steel shaft and fasteners FDA approved white epoxy paint Totally enclosed, non-ventilated Order controller separately, see page 28 							<p>(r) = Output shaft orientation R = Right hand L = Left hand</p> <p style="text-align: right;"><i>Left hand output shown</i></p>	
Part Number	RPM	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts
62M050(r)Z423EN	35	Z	0.5	0.37	1.6	380	42.9	G
62M015(r)Z423EN	115	Z	0.5	0.37	1.6	146	16.5	G
62M005(r)Z423EN	345	Z	0.5	0.37	1.6	55	6.2	G

* At 60 Hz

Chart 10		90°							Stainless Steel Gearmotor	
<ul style="list-style-type: none"> Variable frequency drive, 10-60 Hz Stainless steel construction 230/460 3 Phase NEMA 56 C face IP 55 protection rating Sealed reducer with FDA lubricant Totally enclosed, non-ventilated Order controller separately, see page 28 							<p>(r) = Output shaft orientation R = Right hand L = Left hand</p> <p style="text-align: right;"><i>Left hand output shown</i></p>			
Part Number	RPM	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts		
62M050(r)Z423EN	35	ZS	0.5	0.37	1.6	380	42.9	G		
62M015(r)Z423EN	115	ZS	0.5	0.37	1.6	146	16.5	G		
62M005(r)Z423EN	345	ZS	0.5	0.37	1.6	55	6.2	G		

* At 60 Hz

FLA = Full Load Amperes

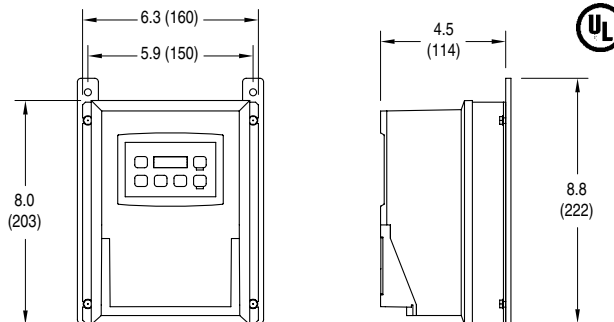
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

VARIABLE SPEED CONTROLLERS

Chart B



- VFD control
- IP 65 plastic enclosure
- EMC filter
- Digital display
- Stainless steel mounting hardware
- Includes cord to motor
- Power to controller by others

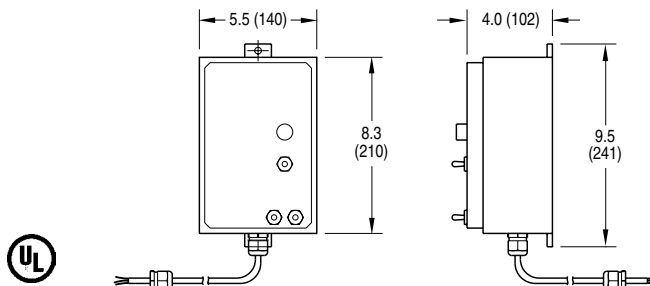


Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Out Phase	Max kW	Max Amps	Reversing
72U2121S	230	1	50	230	3	0.37	4.0	Yes
72U4341S	400	3	50	400	3	0.74	2.0	Yes

Chart F



- SCR DC control
- Nema 4X enclosure
- FDA white epoxy painted enclosure
- Forward/Brake/Reverse switch
- Jog/Run switch
- Speed potentiometer
- Includes cord to motor
- Power to controller by others
- Stainless steel mounting hardware

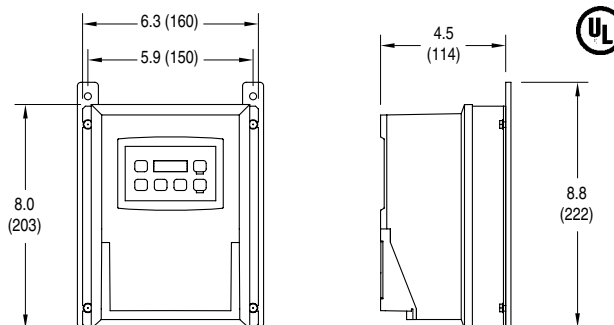


Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Max Hp	Max Amps	Reversing
62MD1191S	115	1	60	90VDC	1	10.2	Yes

Chart G



- VFD control
- Nema 4X Plastic Enclosure
- Stainless steel mounting hardware and fasteners
- Digital display
- Keypad with Start/Stop, Forward/Reverse and speed variation
- Includes cord to motor
- Power to controller by others



Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Out Phase	Max Hp	Output Amp Range*	Reversing
72MV1124S	115	1	60	230	3	0.25	35 - 1.4	Yes
72MV2124S	230	1	60	230	3	0.25	35 - 1.4	Yes
72MV1122S	115	1	60	230	3	0.5	0.55 - 2.2	Yes
72MV2322S	230	3	60	230	3	0.5	0.55 - 2.2	Yes

* See FLA from motor charts

FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)