

DORNER[®]

Amazing Reliability & Delivery



ALL NEW
FOR 2007

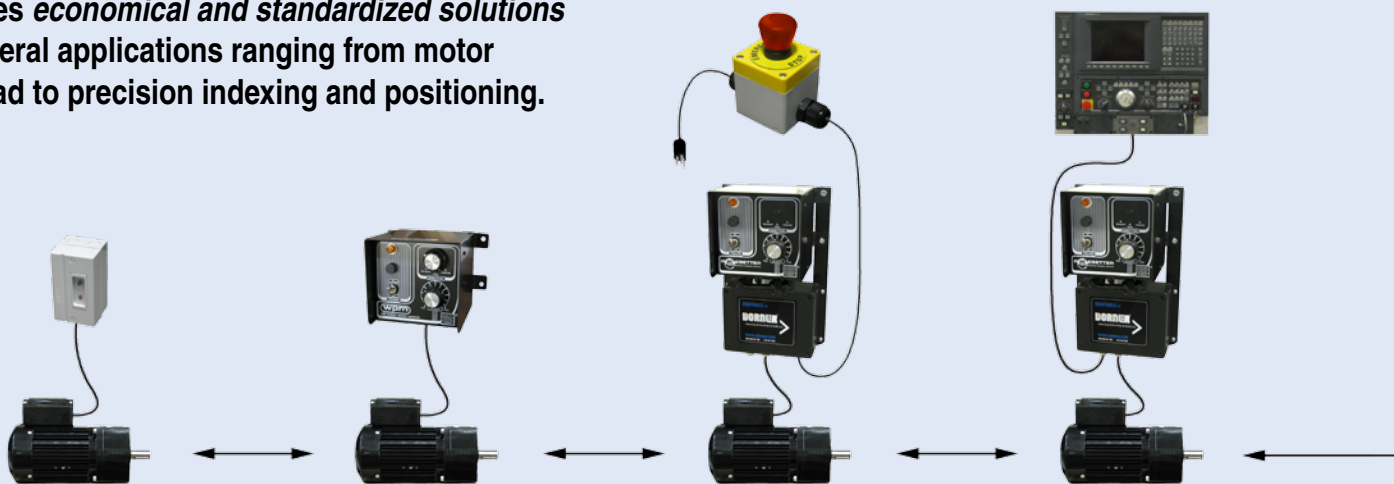
**MOTOR
CONTROLS**

Save Time
Ensure Performance
Save Money!

Prepackaged Control Kits from Dorner

- Includes all mounting hardware
- Color coded Quick Connect/Disconnect control devices
- Can be pre-mounted on conveyor before shipping
- No high voltage wiring
- Quick Connect/Disconnect motor cords
- Full range of standardized accessories available

Dorner Motor Control's *building block* approach provides *economical and standardized solutions* for several applications ranging from motor overload to precision indexing and positioning.



**Fixed Speed Motor with
Overload Protection**

**Variable Speed
Motor Controller**

Emergency Stop

**External Control
Machine Interface**

Performance Tested at Dorner

- Pre-tested with actual product upon request
- Pre-engineered for conveyor performance
- Engineered for optimal motor performance
- Washdown controls available
- Allen Bradley starters optional



**Application Control
(1) Input**



**Application Control
(2) Inputs**



Indexing Drive



Quick Disconnect Motor Cords

No high voltage wiring
Quick motor maintenance



Color Coded Quick Disconnect Input Devices

No low voltage wiring
Plug-n-play applications



Includes All Mounting Hardware

No field modifications
Quick start-up time



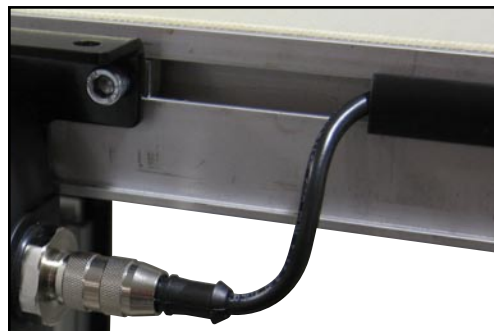
Lockout / Tagout

Keep operators safe
Meet OSHA requirements



Photo Eye Brackets

Mount any 18mm barrel/nose mount device



All Devices are T-slot Mounted

Application flexibility
Ease of wiring

MANUAL MOTOR STARTERS

Manual Motor Starters

Manual motor starts are manual electrical disconnects that provide motor overload protection and are required by the National Electric Code (NEC) for safe motor operation.



- Provide basic Motor on/off control with overload protection
- Plastic Nema 4X enclosure
- Optional Lockout/Tagout kit
- Push Button Start / Stop
- Includes mounting hardware



Optional Lockout / Tagout Kit NEW

- Can be added to any manual motor starter
- Part No: 75M-LT-1

Illustration A

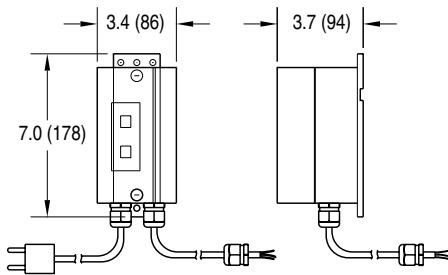
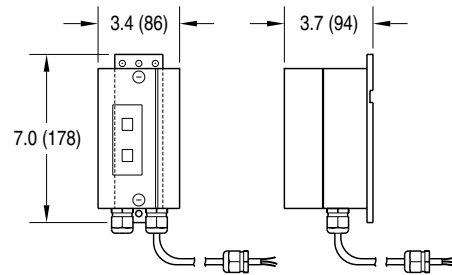


Illustration B



Manual Motor Starters				
<ul style="list-style-type: none"> • 230V, 1 phase includes cord, plug & starter. • 230/400V, 3 phase wiring to starter by others. • Wiring between motor & starter provided when ordered together. • 50 Hz 				
Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21H	230	1	.25 - .4	A
62(c)M23H	230	3	.16 - .25	B
62(c)M43H	400	3	.1 - .16	B
62(c)M21T	230	1	1.6 - 2.5	A
62(c)M23T	230	3	1.0 - 1.6	B
62(c)M43T	400	3	.63 - 1.0	B
62(c)M21J	230	1	2.5 - 4.0	A
62(c)M23J	230	3	1.6 - 2.5	B
62(c)M43J	400	3	1.0 - 1.6	B
62(c)M23K	230	3	4.0 - 6.3	B
62(c)M43K	400	3	2.5 - 4.0	B
62(c)M23R	230	3	2.5 - 4.0	B
62(c)M43R	400	3	1.0 - 1.6	B

Manual Motor Starters				
<ul style="list-style-type: none"> • 230/460V, 3 phase wiring to starter by others. • Wiring between motor & starter provided when ordered together. • 60 Hz 				
Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23L	230	3	1.0 - 1.6	B
62MM43L	460	3	.4 - .63	B
62MM23M	208 - 230	3	1.6 - 2.5	B
62MM43M	460	3	1.0 - 1.6	B
62MM23U	208 - 230	3	2.5 - 4.0	B
62MM43P	460	3	1.6 - 2.5	B
62MM23Q	208 - 230	3	4.0 - 6.3	B
62MM43Q	460	3	2.5 - 4.0	B

(c) = Electrical Configuration
F = CE French

G = CE German
U = CE Great Britain

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 NEC and CE safety directives.

DORNER® VARIABLE SPEED CONTROLLERS

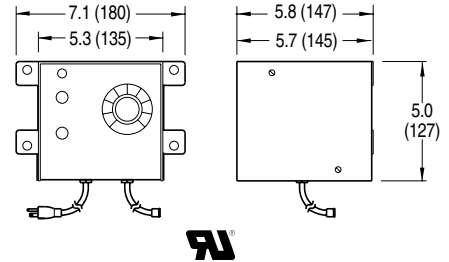
Variable Speed Controllers

Dorner offers a variety of variable speed controllers to accommodate your gearmotor, electrical and environmental requirements.

DC Variable Speed Controllers



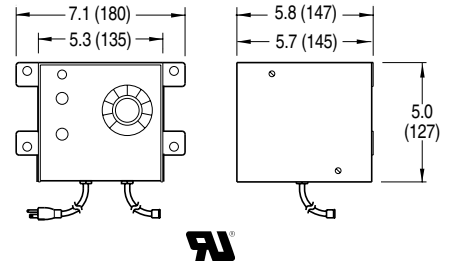
- PWM DC control
- Nema 1 enclosure
- Line cord & Motor cord
- On / Off switch
- Forward / Off / Reverse switch version
- Speed potentiometer
- Mounting hardware



AC Variable Speed Controllers



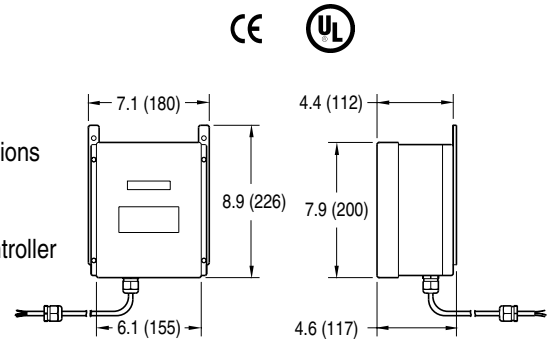
- VFD control
- Nema 1 enclosure
- Line cord and Motor cord
- On / Off switch
- Speed potentiometer
- Mounting hardware
- Forward / Off / Reverse switch version
- Up to 1/2 Hp motors



Full Feature Variable Speed Controller



- Full feature VFD control
- NEMA 4 enclosure
- Digital display
- Keypad with Start / Stop, Forward / Reverse and speed variations
- Includes cord to motor
- Power to controller by others
- 62MV1122 includes line cord to controller
- Mounting hardware
- Nema 4x version available



For industrial variable speed controllers and part numbers, see the Dorner Full Specifications catalog pages 36 & 37.

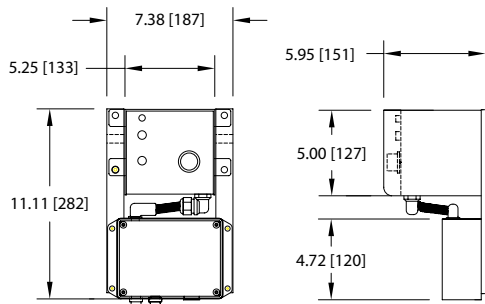
For sanitary/washdown variable speed controllers and part numbers, see the AquaPruf Full Specifications catalog pages 29 & 85.

MOTOR CONTROLLERS

VFD Motor Control – Single Input Interface NEW



- Variable frequency Drive
- 0.5 HP, 2.4 Amp output
- 115V single phase input voltage
- 230V three phase output
- Motor Overload Protection
- Nema 1 Enclosure
- Quick disconnect Motor Cord
- (1) input location for control devices
- Quick disconnect plug for control devices
- Internal terminals for hardwired PLC or machine interface

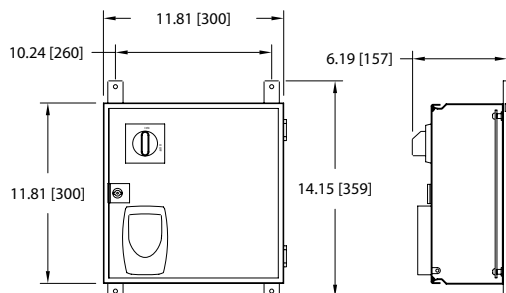


Part No	75M-V1-3211-05
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VFD Motor Control – Dual Input Interface NEW



- Variable frequency Drive
- 115V / 230V single phase input voltage
- 230V / 460V three phase input voltage
- Motor Overload Protection
- Lockout / Tagout disconnect
- Nema 12 Enclosure
- Operator interface panel
- Quick disconnect Motor Cord
- (2) input locations for control devices
- Internal terminals for hardwired PLC or machine interface
- Quick disconnect plugs for control devices



Part No	Input Volts	Input Phase	Input Hz	Output Volts	Max HP	Max Amps
75M-V2-3211-05	115	1	60	230	1	4.0
75M-V2-3211-10	115	1	60	230	1.5	5.2
75M-V2-3232-10	230	1 or 3	60	230	1.5	5.2
75M-V2-3232-20	230	1 or 3	60	230	2	7.0
75M-V2-3434-10	460	3	60	460	1.5	2.8
75M-V2-3434-20	460	3	60	460	2	3.8

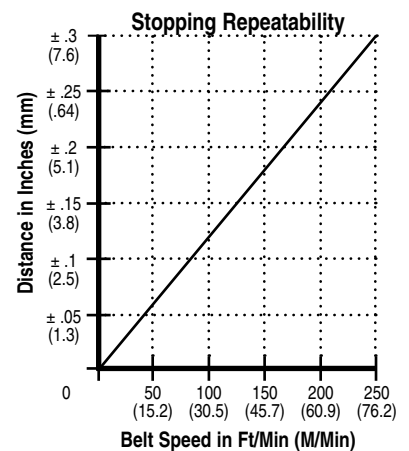
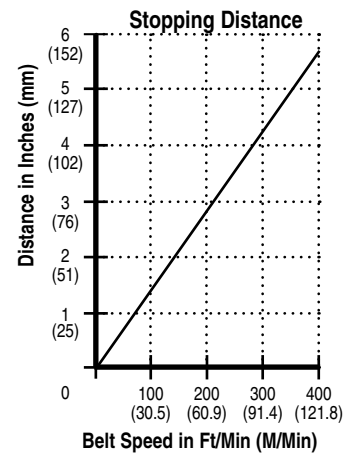
DORNER® INDEXING DRIVE

Specifications:

- Electronic indexing
- Up to 60 indexes per minute
- Requires run signal
- Low inertia motor.
- Adjustable acceleration
- Adjustable deceleration

Features/ Benefits:

- Compatible with
 - 2200, MPB & 6200 Series Industrial standard load gearmotor mounting packages
 - LPZ & 3200 Series standard load gearmotor mounting packages
- Utilizes standard variable frequency drive controller and accessory kits
- Pre-wired motor and AC line cords
- Metric fasteners only



VFD Motor Control with Dual Input Interface

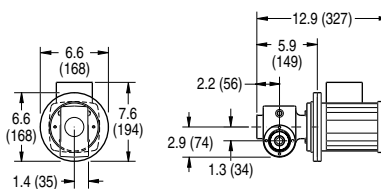
- Variable frequency drive
- 115V single phase input voltage
- 230V three phase input voltage
- 230V three phase output
- Motor overload protection
- Nema 12 Enclosure
- Operator interface panel
- Quick disconnect motor cord
- (2) input locations for control devices
- Quick disconnect plug for control devices
- Lockout/Tagout provided



Part No	Input Volts	Input Phase	Input Hz	Output Volts	Max HP	Max Amps
75M-V2-3211-05	115	1	60	230	1	4.0
75M-V2-3211-10	115	1	60	230	1.5	5.2
75M-V2-3232-10	230	1 or 3	60	230	1.5	5.2
75M-V2-3232-20	230	1 or 3	60	230	2	7.0
75M-V2-3434-10	460	3	60	460	1.5	2.8
75M-V2-3434-20	460	3	60	460	2	3.8

Indexing Gearmotor

- Variable frequency Drive, 6 - 60 Hz
- Sealed Gearmotor
- NEMA 56 C Face
- Totally enclosed, Non-ventilated
- UL & CSA approved
- 230 Volts, 3 Phase
- Order controller separately, see above



Part Number	Gearmotor Type	3 Ph Hp	3 Ph Kw	3 Ph FLA	RPM*	in-lbs*	N-m*
32M060HS423EI	S	0.5	0.37	1.6	29	226	25.5
32M040HS423EI	S	0.5	0.37	1.6	44	247	27.9
32M020HS423EI	S	0.5	0.37	1.6	86	248	27.9
32M010HS423EI	S	0.5	0.37	1.6	173	156	17.6
32M005HS423EI	S	0.5	0.37	1.6	345	81	9.1

* At 60 Hz

INPUT ACCESSORIES

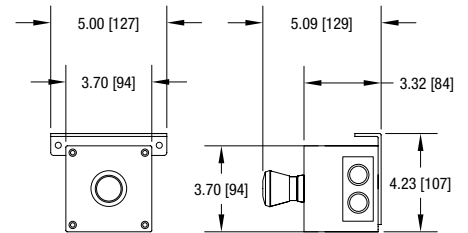
Emergency Stop Kit

NEW



- Push to stop / pull to start push button
- Plastic Nema 12 enclosure
- 115V single phase
- 1/2 hp (0.37 Kw) and smaller motors
- Includes power and outlet cords
- Mounting for 2200 / 3200 / Support Stands
- Horizontal or vertical mount

Part No 75M-ES-1



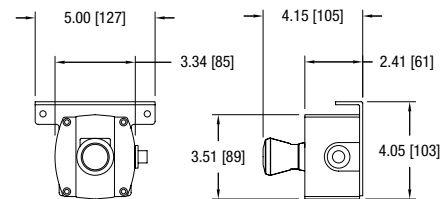
Jog Push Button Kit

NEW



- Momentary contact push button
- Plastic Nema 12 enclosure
- Quick disconnect receptacle
- Mounting for 2200 / 3200 / Support Stands
- Horizontal or vertical mount

Part No 75M-JG-1



Horizontal mount

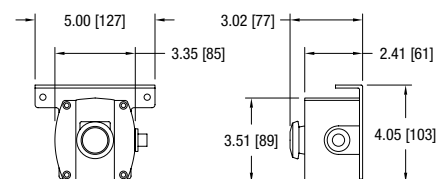
Control Stop Kit

NEW



- Push to stop / pull to start maintained push button
- Plastic Nema 12 enclosure
- Quick disconnect receptacle
- Mounting for 2200 / 3200 / Support Stands
- Horizontal or vertical mount

Part No 75M-CS-1



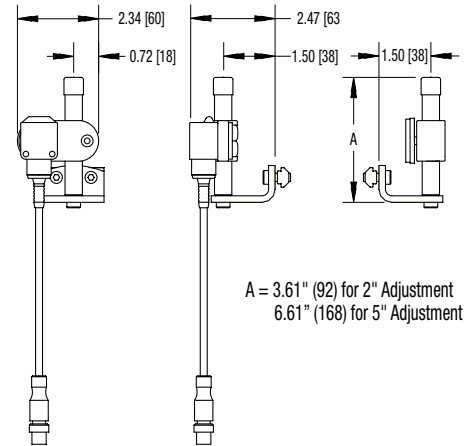
Horizontal mount

Photo Eye Kits **NEW**



- 24V DC Retro Reflective Sensor
- Quick disconnect plug
- Includes reflector and mounting
- Fully adjustable mount for 2200/3200/LPZ Series conveyors
- 2" and 5" adjustment height ranges

Part No	Description
75M-PE-1	2" height adjustment
75M-PE-2	5" height adjustment



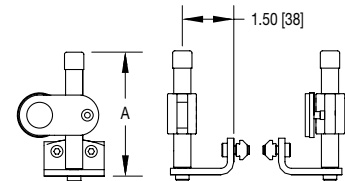
A = 3.61" (92) for 2" Adjustment
6.61" (168) for 5" Adjustment

Photo Eye Bracket Kits **NEW**



- Standard mounting for 18mm barrel / nose mount photo-eyes
- Reflective version Includes reflector
- Through beam mount version
- Fully adjustable mount for 2200/3200/LPZ Series conveyors
- 2" and 5" adjustment height ranges

Part No	Photo Eye Mount Type	Adjustment Height
75M-PM-1	Reflective	2"
75M-PM-2	Reflective	5"
75M-PM-3	Through Beam	2"
75M-PM-4	Through Beam	5"
75M-PM-5	Convergence	2"
75M-PM-6	Convergence	5"



A = 3.61" (92) for 2" Adjustment
6.61" (168) for 5" Adjustment

Linking Cable Kits **NEW**



- Quick disconnect cable for all control devices
- 2 meter and 5 meter lengths
- Includes mounting hardware for T-slots

Part No	Description
75M-LC-1	6 ft (1.83 M) cable
75M-LC-2	15 ft (4.57 M) cable

MOTION SENSING EQUIPMENT

Dorner's Motion Sensing equipment is used in Pressroom, Injection Molding, Packaging, or any application where it's critical to know the conveyor belt is running while your machine is operating. Dorner's motion sensor switch monitors your conveyor and provides a dry contact "belt running" signal to your machine control, PC, PLC, or Dorner Motion Monitor Control Box.

Sensor Switch



Sensor Switch Features

- Low profile, compact design
 - Stainless steel construction for rugged durability
 - Magnetic reed switch offers reliable operation in harsh industrial environments
 - Dry contact signal for easy control interface. Provides 1 pulse per conveyor pulley revolution
 - Several connector styles are available to fit a variety of standard control receptacles
 - For 2" and wider 2200, 4100 & 6200 Series conveyors
- Sensor Switch for 4100 Series, 2200 Series (Shown), 6200 Series & 2200 Series and 6200 Series Gang Drive Conveyors.

Motion Monitor



Motion Monitor Control Box Features

- Controls up to 3 conveyors
- On / Bypass toggle with indicator lights
- Uses sensor switch with Banana Plug connectors (64-02-01 & 74-02-01)
- Part Number 64 - 01

- 115V 1 Phase input, 60Hz
- Controls (1) 115V 1 phase gearmotor up to .75 hp.
- Controls (1) 115V 1 phase gearmotor up to .75 hp.
- Sensor Switch for 2200 & 6200 Series Conveyor. (Shown)
- Shown with Motion Monitor Control Box, Part No 64-01.

Part Number	Description
64-01	Motion Monitor

Magnetic Reed Switch Specifications

- Voltage (switching) 200 Vdc. Maximum.
140 Vac. (RMS) Maximum
- Current (switching) 1.0 Amps. Maximum
(carrying) 2.5 Amps. Maximum
- Watts 15 Watts Maximum
- Resistance (initial contact) 0.100 Ohms Maximum
(insulation) 10E6 M Ohms
- Switch response time (including bounce) 0.5 milliseconds
- Switching Speed 1 Khz Maximum

Sensor Switch with Banana Plug Connector



- Includes switch assembly & 12' (3.7 M) cord.
- Use with Motion Monitor Control Box.

Part Number	Description
64-02-01	Sensor Switch, 2200 & 6200 Series
74-02-01*	Sensor Switch, 4100 & 2200 Series Gang Drive

Motion Sensor Magnet

Part Number	Description
64-03I	Sensor Switch Magnet, 2200 & 6200 Series, Installed in conveyor idler pulley

Sensor Switch with Wire Connector



- Includes switch assembly & 12' (3.7 M) cord.

Part Number	Description
64-02-00	Sensor Switch, 2200 & 6200 Series
74-02-00*	Sensor Switch, 4100 & 2200 Series Gang Drive

Sensor Switch with Lumberg Connector



- Includes switch assembly & 12' (3.7 M) cord.

Part Number	Description
64-02-02	Sensor Switch, 2200 & 6200 Series
74-02-02*	Sensor Switch, 4100 & 2200 Series Gang Drive

Sensor Switch with Amphenol Connector



- Includes switch assembly & 12' (3.7 M) cord.

Part Number	Description
64-02-03	Sensor Switch, 2200 & 6200 Series
74-02-03*	Sensor Switch, 4100 & 2200 Series Gang Drive

* Includes engagement springs for 2" and 3" & wider conveyors and installation wrench.
** Other pulse rates available, consult factory

DORNER[®] LITERATURE

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www.dorner.com • info@dorner.com

DORNER MFG. CORP.
PO Box 20 • 975 Cottonwood Ave
Hartland, WI 53029-0020 USA

INSIDE THE USA	OUTSIDE THE USA
TEL: 800.397.8664	TEL: 262.367.7600
FAX: 800.369.2440	FAX: 262.367.5827

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