

MVE-SV Three-Stage Long Vibration Motor for Vibrating Screens

✓ In Stock

✓ 1-Year Warranty

✓ SIZE 75D0 frame fits Derrick shaker base directly

■ NO CROSS BEAM

Designed for installation on vibrating screens and feeders without any support cross beam.

■ DIRECT DRIVE

This design places the centre of mass closer to the vibrating screen mesh than a conventional mounting on a support beam, improving performance.

■ ADJUSTABLE VIBRATION FORCE

Eccentric weights are adjustable and can be locked at the required setting.

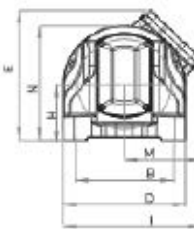
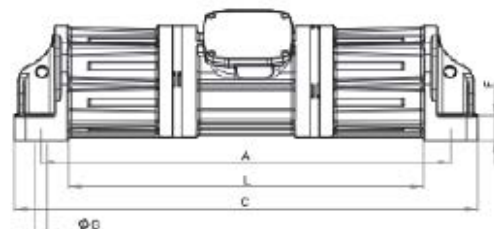
Applications: Quarrying · Mining · Oil & Gas Drilling

Note: Derrick® is a registered trademark of Derrick Corporation. Derrick Corporation has no affiliation with OLI or Wolong.

SV SIZE 75A0



SV SIZE 95A0



MVE-SV Three-Stage Long Vibration Motor — Specifications

Model	Excitation Force (kg)	Excitation Force (kN)	Output Power (kW)	Current (A)	Weight (kg)	Frame Size	A	A1	B	C
MVE3500/15XY-75A0	3500	35	1.84	4.3	172	75A0	959	/	229	1127
MVE5001/15SV-75A0	5097	50	1.84	4.3	195	75A0	959	/	229	1127
MVE5000/15SV-80A0	5097	50	2.1	4.3	203	80A0	959	/	229	1116
MVE3500/15SV-75A0	3500	35	1.84	4.3	180	75A0	959	/	229	1080
MVE3500/15SV-75D0	3500	35	1.84	4.3	180	75D0	959	/	241.3	1080
MVE5300/15SV-80A0	5240	52	2.1	4.3	211	80A0	959	/	229	1116
MVE8000/15SV-85A0	7790	80	2.8	6.3	280	85A0	800	240	280	1418
MVE7800/15SV-85A1	7790	80	2.8	6.3	280	85A1	800	240	290	1418
MVE3500/15D-SV-75A0	3500	35	2.20(IN)	4.3	180	75A0	959	/	229	1080
MVE3500/15D-SV-75D0	3500	35	2.20(IN)	4.3	180	75D0	959	/	241.3	1080
MVE5300/15D-SV-80A0	5240	52	2.60(IN)	4.3	211	80A0	959	/	229	1116
MVE8000/15D-SV-85A0	7790	80	3.20(IN)	6.3	280	85A0	800	240	280	1418
MVE8000/15D-SV-85A1	7790	80	3.20(IN)	6.3	280	85A1	800	240	290	1418

Model	D	E	F	ΦG	H	I	L	M	ΦN	Cable Gland	Fig	Certification
MVE3500/15XY-75A0	285	322	60	29	137	327	858	1088	285	NPT3"/4	A	
MVE5001/15SV-75A0	285	322	60	29	137	327	858	1088	285	NPT3"/4	A	
MVE5000/15SV-80A0	285	353	48	29	156	333	844	1088	320	NPT3"/4	C	
MVE3500/15SV-75A0	285	319	60	29	137	324	830	/	205	NPT3"/4	B	CCC
MVE3500/15SV-75D0	285	319	60	20	137	324	830	/	205	NPT3"/4	B	CCC
MVE5300/15SV-80A0	285	353	48	29	156	333	844	1088	320	NPT3"/4	C	CCC
MVE8000/15SV-85A0	330	407	57	22	179	362	712	1394	280	NPT3"/4	D	
MVE7800/15SV-85A1	330	407	57	22	179	362	712	1394	280	NPT3"/4	D	
MVE3500/15D-SV-75A0	285	319	60	29	137	324	830	/	205	NPT3"/4	B	ATEX IECEX UL
MVE3500/15D-SV-75D0	285	319	60	20	137	324	830	/	205	NPT3"/4	B	ATEX IECEX UL
MVE5300/15D-SV-80A0	285	353	48	29	156	333	844	1088	320	NPT3"/4	C	ATEX IECEX UL
MVE8000/15D-SV-85A0	330	407	57	22	180	362	712	1394	280	NPT3"/4	D	ATEX IECEX UL

Model	D	E	F	ΦG	H	I	L	M	ΦN	Cable Gland	Fig	Certification
MVE8000/15D-SV-85A1	330	407	57	22	180	362	712	1394	280	NPT3"/4	D	ATEX IECEX UL

Features

Like other foot-mounted vibration motors, SV-series motors provide vibration for vibrating machinery. Two SV three-stage long motors installed in parallel deliver linear vibration; a single unit generates circular vibration.

SV-series motors require no cross beam for installation, because the motor body acts as the cross beam itself.

The SIZE 75D0 frame is designed as a direct replacement for Derrick® long vibration motors. Thanks to its versatility, SV three-stage long motors can be used in many other industries.

Quarry / Mining Applications

- Dry fine-particle separation (e.g. Derrick® linear motion screen)
- Vibrating screen fraction (e.g. Derrick® high-frequency screen)

Oil & Gas Applications

- Drilling fluid recovery system (e.g. Derrick® 'Hyperpool' shale shaker)

Advantages of Three-Stage Series Motors

- SIZE 75D0 frame matches Derrick® long motor mounting dimensions;
- High reliability;
- Extended bearing life;
- Easy eccentric weight adjustment.

Application Advantages

- Vibration force is applied directly to the screen mesh, improving efficiency and screen life;
- Vibration can be adjusted via the eccentric weights in the SV three-stage long motor;
- Factory-wired in star (Y) connection — suitable for high-voltage operation;
- Can be reconnected in delta (Δ) using the terminal links for low-voltage, nearby operation;
- Multiple voltage options available.

Performance Parameters

Output voltage: 220/380 V, 380/660 V, 50 Hz/60 Hz

Ambient temperature: -20 °C to +40 °C

Protection class: IP66

Winding protection: Thermal PTC 130 °C

Insulation class: F

UL Listing

Class I, Div.1 Group C, D T4 IP66
Complies with: UL 1004-1, UL 1004-3, UL1203; UL674; CSA CJ22.2 No.145; CSA CJ22.2 No.30-M1986

Explosion-Proof Markings

II 2G Ex db IIB T4 Gb
II 2G Ex tb IIIC T135°C Db
Ex db IIC T135°C Db
Ex tb IIIC T135°C Db
Temperature range: -20 °C to +60 °C

Safety Requirements

Observe basic health and safety requirements

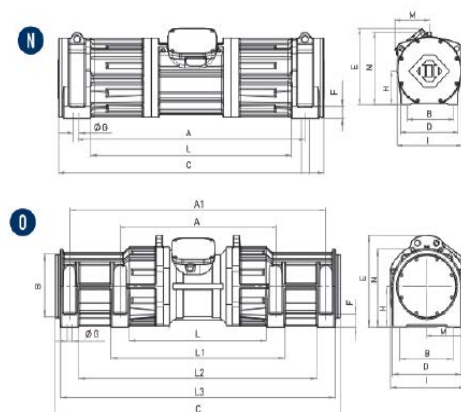
Gas Group: Ex II 2G: Temp. Class T4 Class I Div.1:

Temp. Class T4 Ex II 2D Temp. Class: I 135 °C

Terminal Box: Y = High Voltage | D = Low Voltage

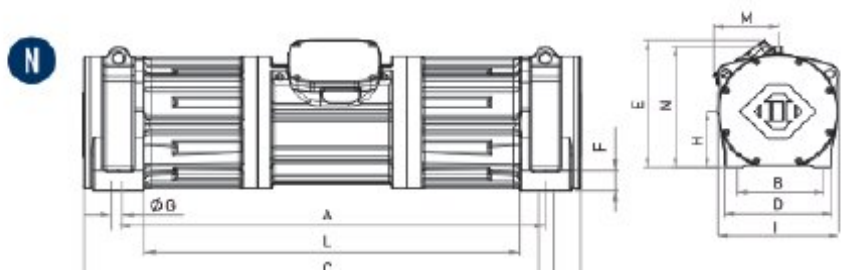
Standards: IEC EN 60079-0, IEC EN 60079-31, IEC EN 60079-1

Compliance: "Class B" Declaration per 2014/35/UE-2006/42/EC-EN 60034-1 UL1446 and CSA 22.2 No 0-10

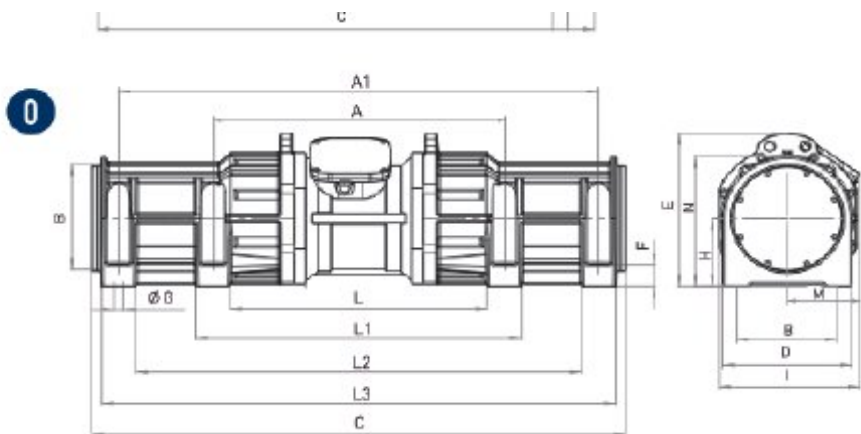


MVE-SV Stack-Screen Long Motor Dimensional Drawings & Specifications (Explosion-Proof)

Drawing N — Frame 75A0 / 75D0 / 80A0



Drawing O — Frame 85A0



Dimensional Data (mm) — 4-Pole Explosion-Proof, 1500 / 1800 rpm

Model Number		Fig	Frame	Dimensional Data (mm)																
50 Hz	60 Hz	Fig	Frame	C	M	A	A1	B	ΦG	Holes n°	D	E	F	H	I	L	L1	L2	L3	N
MVE 3500/15D-SV-75A0	MVE 3500/18D-SV-75A0	M	75A0	1080	179	959	—	229	29	4	285	316	60	137	322	830	—	—	—	279
MVE 3500/15D-SV-75D0	MVE 3500/18D-SV-75D0	M	75D0	1080	179	959	—	241	20	4	285	316	40	137	322	830	—	—	—	279
MVE 5300/15D-SV-80A0	MVE 5300/18D-SV-80A0	N	80A0	1116	170	959	—	229	29	4	285	351	48	156	333	844	—	—	—	316
MVE 8000/15D-SV-85A0	MVE 8000/18D-SV-85A0	O	85A0	1425	185	800	1280	280	22	8	330	407	57	180	360	714	886	1193	1366	345

* Dimensions are approximate per UNI 22768/1. Terminal box connection: Y = High Voltage, Δ = Low Voltage.





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Thank You!

— **Contact Us** —



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