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## Product Alert

Date : May 25, 2016  
To : Our valued partners  
From : Clark Hummel, Director of Product Management  
Re : MDrive 17 Improved Heatsink

As is periodically the case, we recently reviewed the design for our NEMA 17 frame series of MDrive products. With an eye towards easier EMC compliance for our customers, it was decided to add an integral grounding screw to the heatsink itself. In the past, if limiting EMC radiated emissions as well as reducing susceptibility were an issue, a heatsink mounting screw would need to be removed and the coating under the screw scraped away so that a grounding strap could be added to the heatsink. With this improved design, a grounding terminal is readily available on the heatsink.

The grounding terminal, along with the mounting screw and lock washer increase the overall length of the MDrive by approximately 0.25" (6.35mm). If space is a concern, removing the screw and lock washer reduces this difference to .12" (3mm). Please see the attached drawing for details of the updated heatsink.

This update will start shipping immediately and effect the **Plus** version of the NEMA 17 frame series of MDrive products (MDI1xxx17, MDM1xxx17, MDO1xxx17, MLI1xxx17, MLM1xxx17 ) as well as the MForce Microdrive (MFI1xxx17). This **will not** affect the Plus2 version (MDx3xxx17) or the Industrial Connector version (MDI4xxx17, MDM2xxx17).

If you have any questions, please do not hesitate to contact our Applications Engineering Team.

Best Regards,

Clark Hummel



Director of Product Management

Schneider Electric Motion USA

### Schneider Electric Motion USA

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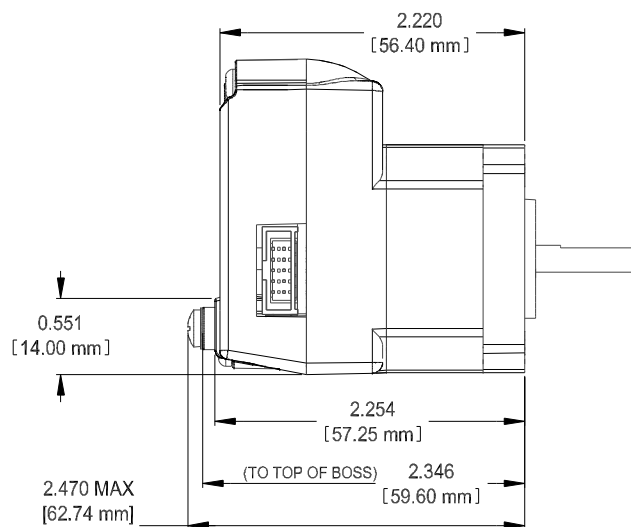
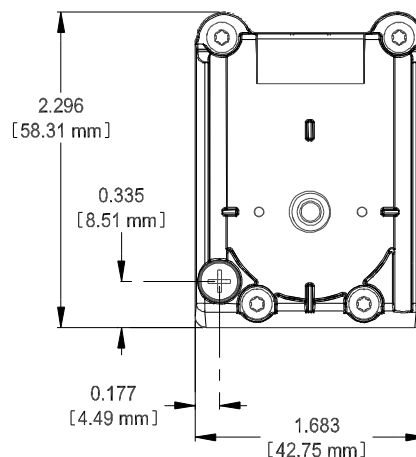
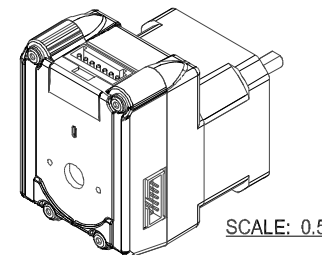
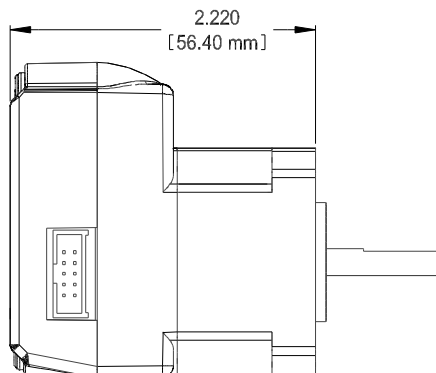
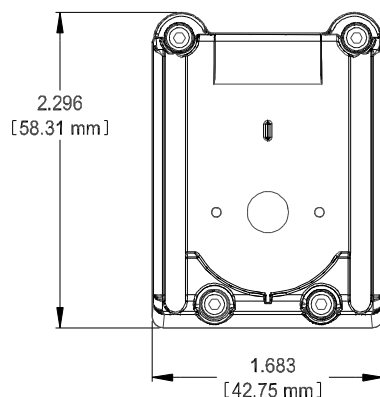
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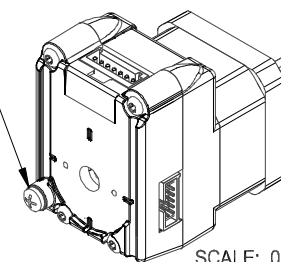
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FOR PREVIOUS REVISIONS SEE RECORD COPY				
REV	DESCRIPTION	DWN/DATE	APPROVED	ECO
A	NEW RAWING	05/24/16		




GROUND PROVISION  
(#6-32 SCREW SUPPLIED)



(INCLUDES LOCKWASHER)  
-- DOES NOT INCLUDE WIRE LUG --

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Form: EF00003\_Rev\_A

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:			CONTRACT NO.		 IMS Schneider Electric Motion USA 370 NORTH MAIN STREET, WARLBOROUGH, CT 06447
FRACTIONS: X.X ±0.02 X.XX ±0.01 X.XXX ±0.005			APPROVALS DATE		
DO NOT SCALE DRAWING			DRAWN P. B. 05/24/16		TITLE
MATERIAL			CHECKED		MODIFICATION, MDrive17 HEAT SINK
FINISH			DESIGNER		SIZE
NOTED					SEM PART NUMBER
THIRD ANGLE					DWG NO
DISK DIRECTORY: FILENAME:					H-IMS0685
					SCALE
					RELEASE DATE
					SHEET
					1 of 1

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## Product Alert

Date : June 20, 2016  
To : Our valued partners  
From : Clark Hummel, Director of Product Management  
Re : MDrive 23 Improved Heatsink

As is periodically the case, and as done recently in our NEMA 17 frame series of MDrives, we recently reviewed the design for our NEMA 23 frame series of MDrive products. With an eye towards easier EMC compliance for our customers, it was decided to add an integral grounding screw to the heatsink itself. In the past, if limiting EMC radiated emissions as well as reducing susceptibility were an issue, a heatsink mounting screw would need to be removed and the coating under the screw scraped away so that a grounding strap could be added to the heatsink. With this improved design, a grounding terminal is readily available on the heatsink.

The grounding terminal, along with the mounting screw and lock washer increase the overall length of the MDrive by approximately 0.2" (5mm). If space is a concern, removing the screw and lock washer reduces this difference to .08" (2mm). Please see the attached drawing for details of the updated heatsink.

This update is scheduled to start shipping the end of this month (June, 2016) and effect the **Plus** version of the NEMA 23 frame series of MDrive products (MDI1xxx23, MDM1xxx23, MDO1xxx23, MLI1xxx23, MLM1xxx23). This **will not** affect the Plus2 version (MDx3xxx23), the Industrial Connector version (MDI4xxx23, MDM2xxx23) or any of the LMD family of products. Please work in conjunction with your BDM to notify your OEM customers who use these versions of this update in order to allow them to evaluate an potential issues.

If you have any questions, please do not hesitate to contact our Applications Engineering Team or your local BDM.

Best Regards,

Clark Hummel



Director of Product Management

Schneider Electric Motion USA

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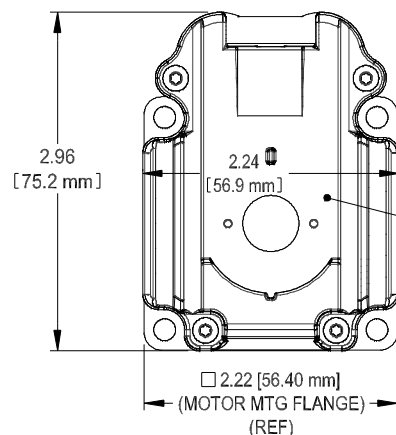
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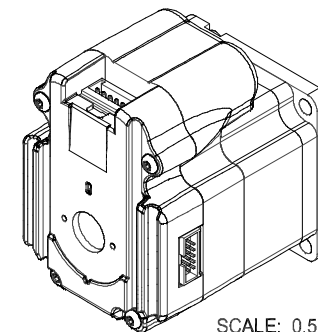
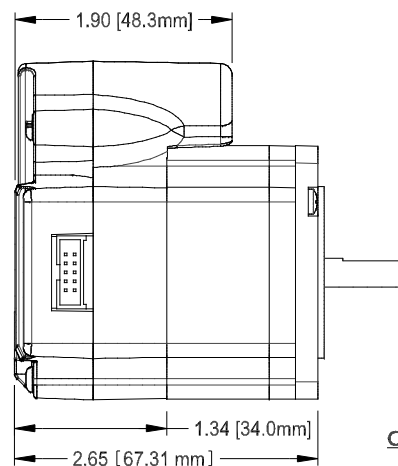
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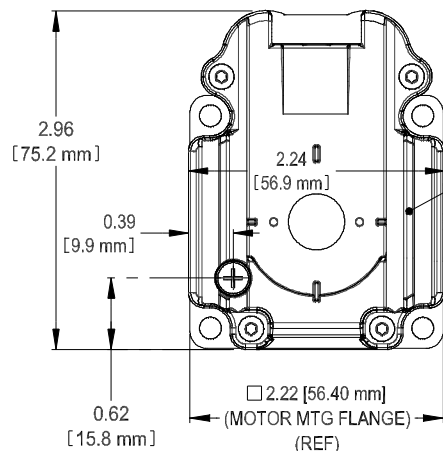
FOR PREVIOUS REVISIONS SEE RECORD COPY				
REV	DESCRIPTION	DWN/DATE	APPROVED	ECO
A	NEW RAWING	P. Bordua 06/17/16		



HEAT SINK  
H-IMS0210 Rev D  
WILL CHANGE TO:

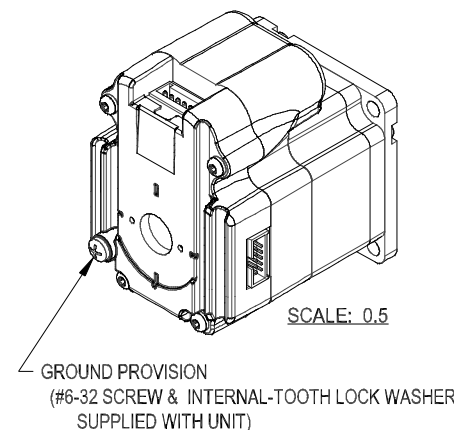
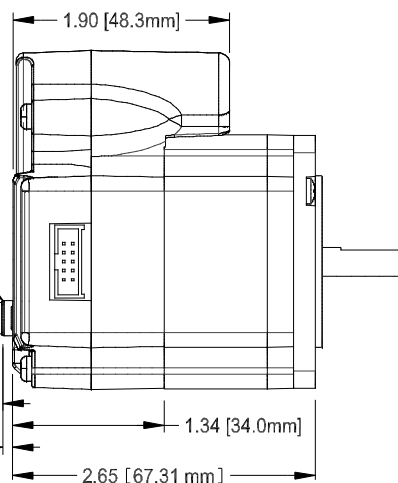


**CURRENT PRODUCTION:**  
**HEAT SINK WITHOUT GROUND PROVISION**



HEAT SINK  
H-IMS0210 Rev E  
(WITH GND PROVISIONS)

0.107 [2.72 mm] (SCR HEAD & WASHER)  
0.082 [2.08 mm] (BOSS HEIGHT)



GROUND PROVISION  
(#6-32 SCREW & INTERNAL-TOOTH LOCK WASHER  
SUPPLIED WITH UNIT)

**NOTE: SINGLE-STACK MOTOR IS SHOWN IN ALL VIEWS**

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PROJECTION		FINISH		SCALE		RELEASE DATE	
THIRD ANGLE		NOTED		A		N/A	
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FORM: EF00003_Rev_A		MATERIAL		DWG NO		H-IMS0688	
SCALE		RELEASE DATE		SHEET		1 of 1	
0.625				1			