



Customer Document title:

Motor Outline Drawing

Flowserve Document title: **Motor Typical Outline Drawing**Flowserve Document No.: **1400944-011-5920-01**Document Revision No.: **A**Flowserve Order No.: **1400944**Flowserve Serial No.: **1400944CHP011A/D**Pump Type/Size: **MARK 3 STANDARD / 2K4X3-10HRV**Quantity: **4**Customer Name: **DESMET BALLESTRA NORTH AMERICA**

PROJECT - WORPAR

ITEM NBR - P635A.1/1-P635A.1/2

P635A.2/1-P635A.2/2

TYPE - ASSY

eB NBR - 100212948.001

DATE - 09.02.2022

Customer Tag No: **DESMET TAG#: P635A.1/1, World Energy TAG#: 19-P-761A, DESMET TAG#: P635A.1/2, World Energy TAG#: 19-P-761B, DESMET TAG#: P635A.2/1, World Energy TAG#: 19-P-861A, DESMET TAG#: 635A.2/2, World Energy TAG#: 19-P-861B**

Customer PO No.: **28493**End User: **DESMET BALLESTRA NORTH AMERICA**

Please complete and return:

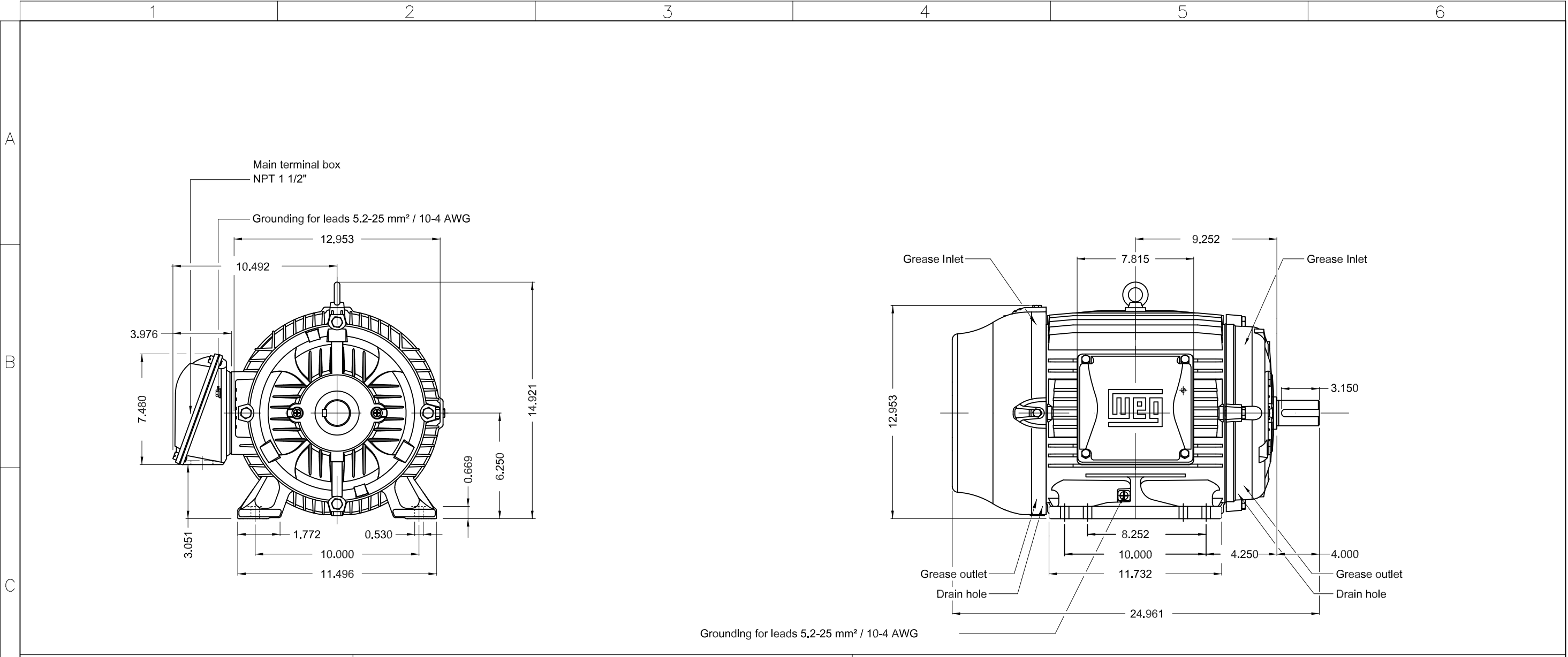
Document Reviewed by:

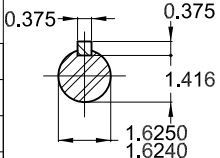
Document Reviewed date:

- ☐ **APPROVED. NO ACTION REQUIRED**
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☐ **APPROVED WITH COMMENTS.** DOCUMENT WILL BE MODIFIED AND RESUBMITTED AS FINAL.
☐ **REJECTED.** CORRECT AND RE-SUBMIT FOR APPROVAL.
☐ **FOR INFORMATION.** REVIEW NOT REQUIRED
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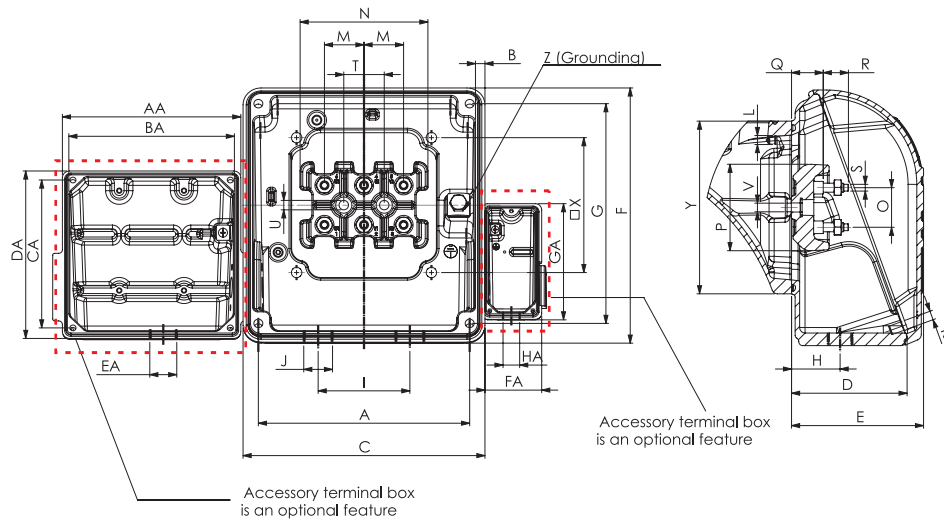
- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document submitted by Flowserve Corp. and returned.
- Corrections, alterations, additions and/or modifications outside scope of contract or made after first submittal may require an additional engineering service charge.
- Items conditionally approved or with deferred approval by purchaser must be specifically stated otherwise delivery may be affected.

Rev	Revision Description	Released	Release Date
	For Review	Morris, Tamika	14-Dec-21



D					20 HP 04 Poles 60Hz										A	
E		DE Shaft End 			ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
					EXECUTED		PIRWBUSER			THREE PH. W22 NEMA P.EFF MOTOR IEEE841				PREVIEW		
					CHECKED					FRAME 254/6T IP55 TEFC				WDD		
					RELEASED											
					REL DT.				WMO		Jaragua do Sul		Product Engineering		SHEET 1 / 1	

16. Terminal Box Drawing



Frames	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
143/5T	3.858		4.528	2.283	2.638	4.094	3.583	1.220	1.654	NPT 3/4"	M5 x 0.8	M5 x 0.8	0.630	2.087	0.630	1.378	0.610	0.472	M4 x 0.7	0.787	0.228
182/4T	4.606	0.276	5.512	2.717	3.150	5.236	4.606	1.417	2.126	NPT 1"	M6 x 1.0	M6 x 1.0	0.906	2.953	0.906	2.047	0.669	0.630	M5 x 0.8	0.906	0.256
213/5T																					
254/6T	6.890	0.335	7.815	3.386	3.976	7.480	6.890	1.811	3.307	NPT 1 1/2"	M8 x 1.25	M8 x 1.25	1.102	3.543	1.102	2.362	0.846	0.807	M6 x 1.0	1.102	0.260
284/6T	8.031	0.374	9.055	3.996	4.705	8.661	8.031	2.205	3.701	NPT 2"			1.378	4.409	1.378	2.913	0.945	0.945	M8 x 1.25	1.378	0.374
324/6T	9.252	0.492	10.591	5.000	6.024	11.267	10.236	2.677	4.331	NPT 3"	M10 x 1.5	M10 x 1.5	1.732	5.512	1.732	3.701	1.280	1.102	M10 x 1.5		
364/5T	10.827	0.531	12.362	5.118	5.970	12.283	10.827	4.961													
404/5T	10.827	0.531	12.362	5.118	5.970	12.283	10.827	4.961													
444/5T	10.827	0.531	12.362	5.118	5.970	12.283	10.827	4.961													
445/7T	13.386		14.921	6.142	6.929	15.039	13.583	3.228	6.299	2xNPT 3"	M12 x 1.75	M12 x 1.75	1.772	6.024	1.772	4.252	1.398	1.575	M12 x 1.75	1.772	0.413
447/9T	13.386		14.921	6.142	6.929	15.039	13.583	3.228	6.299	2xNPT 3"	M12 x 1.75	M12 x 1.75	1.772	6.024	1.772	4.252	1.398	1.575	M12 x 1.75	1.772	0.413
504/5T	13.386	0.571																			
L447/9T	14.370		15.906	7.697	8.661	17.165	15.354	3.819	7.874				2.559	8.268	2.559	5.748	2.008	1.772	M16 x 2.0	2.559	-
586/7T	16.339	-	18.110	9.843	11.417	21.417	18.898	5.000	6.299	2xNPT 4"	M10 x 1.5	M10 x 1.5	3.150	-	4.134	-	-	-	M20 x 2.5	-	-
588/9T	16.339	-	18.110	9.843	11.417	21.417	18.898	5.000	6.299	2xNPT 4"	M10 x 1.5	M10 x 1.5	3.150	-	4.134	-	-	-	M20 x 2.5	-	-

Frames	V	X	Y	Z	AA	BA	CA	DA	EA	FA	GA	HA	Max connector number			Volume (in³)
													Main	Accessories	Space heater	
143/5T		2.205	3.031	0.5-6 mm²									4			25
182/4T	M5 x 0.8	2.756	4.213	2-10 mm²	4.272	3.543	3.346	3.780					6			50
213/5T																
254/6T	M6 x 1.0	4.331	5.669	5.2-25 mm²	5.453	4.606	4.606	5.118			4.016		12			135
284/6T	M8 x 1.25	4.724	6.102	5.2-35 mm²												210
324/6T																
364/5T		5.906	7.559	25-50 mm²					NPT 3/4"	2.657		NPT 3/4"				460
404/5T																592
444/5T																
445/7T	M10 x 1.5	7.874	10.236	35-70 mm²	7.795	6.890	6.890	7.382			5.236		16	26	4	1100
447/9T																
504/5T		10.236	12.008	85-120 mm²												1696
L447/9T																
586/7T																
588/9T	-	11.417		50-70 mm²									-			3300

Note: terminal block is optional on NEMA motors.