



Customer Document title:

Motor Outline Drawing

Flowserve Document title: **Motor Typical Outline Drawing**Flowserve Document No.: **1400944-012-5920-01**Document Revision No.: **A**Flowserve Order No.: **1400944**Flowserve Serial No.: **1400944CHP012A/D**Pump Type/Size: **MARK 3 STANDARD / 2K4X3-10RV**Quantity: **4**Customer Name: **DESMET BALLESTRA NORTH AMERICA**

PROJECT - WORPAR

ITEM NBR - P682B.1/1-P682B.1/2

P682B.2/1-P682B.2/2

TYPE - ASSY

eB NBR - 100212958.001

DATE - 09.02.2022

Customer Tag No: **DESMET TAG#: P682B.1/1, World Energy TAG#: 19-P-765A, DESMET TAG#: P682B.1/2, World Energy TAG#: 19-P-765B, DESMET TAG#: P682B.2/1, World Energy TAG#: 19-P-865A, DESMET TAG#: P682B.2/2, World Energy TAG#: 19-P-865B**

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

Please complete and return:

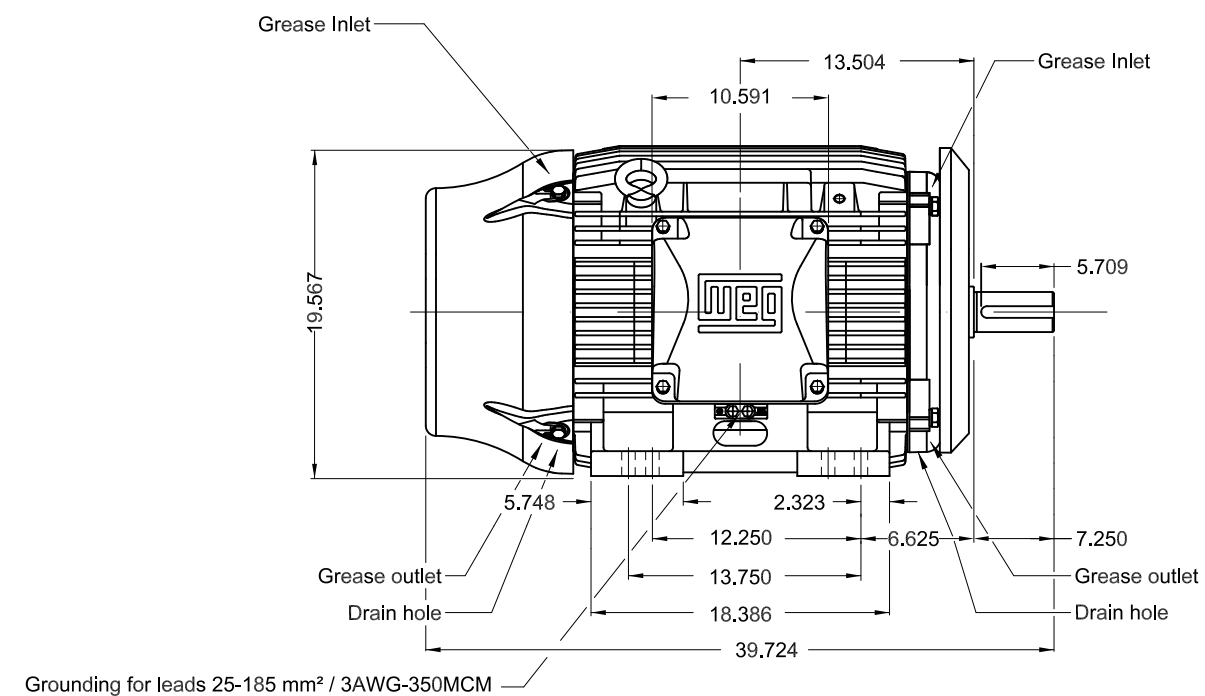
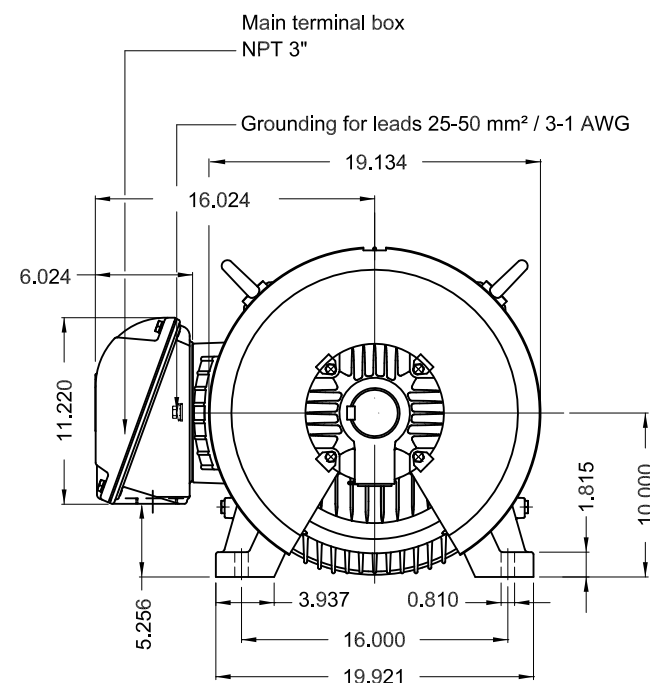
Document Reviewed by:

Document Reviewed date:

- ☐ **APPROVED. NO ACTION REQUIRED**
☐ **APPROVED. RE-SUBMIT AS FINAL**
☐ **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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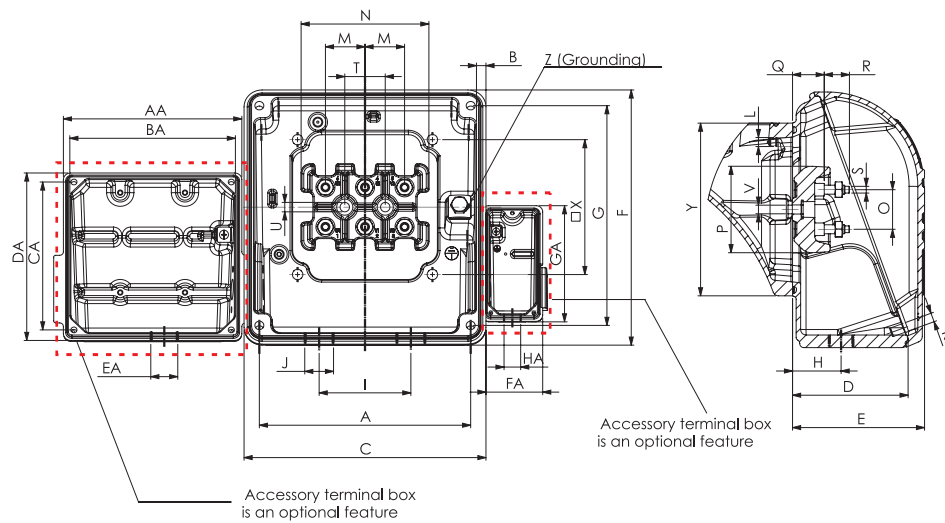
- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document 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



100 HP 04 Poles 60 Hz							A
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED
EXECUTED	PIRWUSER		THREE PH. W22 NEMA P.EFF MOTOR IEEE841		PREVIEW WDD		
CHECKED			FRAME 404/5T IP55 TEFC				
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																						
324/6T	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	
364/5T																						
404/5T	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			
444/5T	10.827	0.531	12.362	5.118	5.970	12.283	10.827		4.961													
445/7T																						
447/9T	13.386	0.571	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
504/5T																						0.413
L447/9T	14.370		15.906	7.697	8.661	17.165	15.354	3.819	7.874			M14 x 2.0	2.559	8.268	2.559	5.748	2.008	1.772	M16 x 2.0	2.559		
586/7T																						
588/9T	16.339	-	18.110	9.843	11.417	21.417	18.898	5.000	6.299	2xNPT 4"	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	16	-	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																
324/6T	M8 x 1.25	4.724	6.102	5.2-35 mm²												210
364/5T																
404/5T		5.906	7.559	25-50 mm²					NPT 3/4"	2.657		NPT 3/4"				460
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	592
447/9T																
504/5T																
L447/9T		10.236	12.008	85-120 mm²												1100
586/7T																
588/9T	-	11.417		50-70 mm²									-			1696
																3300

Note: terminal block is optional on NEMA motors.