

MOTOR DATA SHEET (INCL. CURVES)

CLIENT : Air Products Manufacturing LLC

PROJECT NAME/NO. : WEP Renewables

CLIENT PO NO : 4505605360

HMD DOCUMENT NO : HMD-4505605360-C11-03

CLIENT DOCUMENT NO :

HMD PUMP NO : 839918 A/B

EQUIPMENT TAG NO : 18-P-253 A/B

2	14/12/2022	ISSUE FOR REVIEW	KW	AFS	AFS
1	13/09/2022	ISSUE FOR REVIEW	ABB	AFS	AFS
0	10/05/2022	ISSUE FOR REVIEW	AN	AFS	NW
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

NOTE:



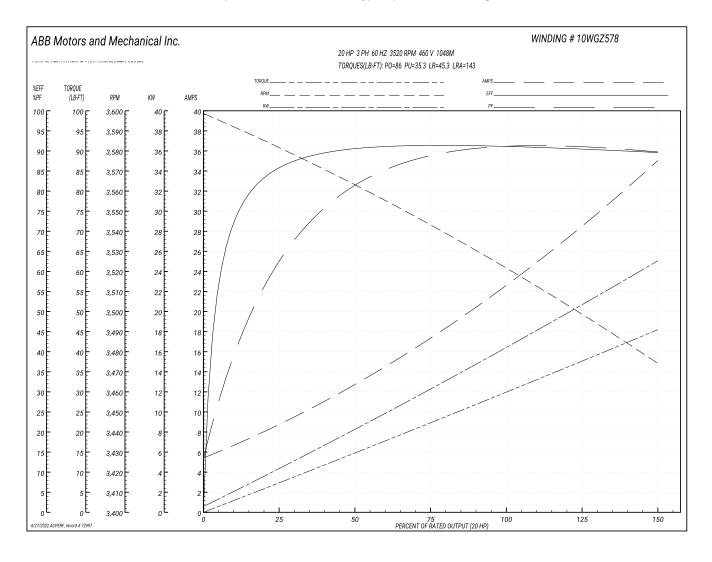
RESOLUTION SHEET

Comment Number		Revision from which comment first appeared	Comment Status: Open\Closed -	
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	(Date Closed:)
1	Inverter Duty Not applicable	Noted	1	14/12/2022
2	Space heater not applicable for this motor	Noted and Amended.	1	14/12/2022
	Typical not acceptable. Vendor shall provide curves for the	Noted and Amended. Curves attached are correct for the given motor rating, voltage, frequency to be used on pump 18-P-253 A/B	1	14/12/2022

		LOW VOLTAGE MOTOR (IEEE 841)			Contract: A8KM				
F	LUOR	DATA SHEET U.S. CUSTOMARY UNITS			Item No:		18-P-253A/B (839918)		
-					Revision:			te: 13-Sep-22	
					Unit:		SWSPlus Unit		-
world energy				PECIFICATION					
		A	3KM-PP-000-5	0670-A	RFQ / P.C). No.:	4505605360		
		Doc. No	.: HMD-45056	05360-C11-03	Sheet		1 of 1		Rev
1	APPLICABLE TO	O PROPO	SAL	PURCHASE	AS BUIL	.T			
2	CLIENT: Wo	rld Energy Para	amount	SERVI	CE		Sour Water		1
3		rld Energy Para		MOTO	R TAG NO. / NO. RE	O'D	18-P-253AM/BM	/ Two (2)	f
4		amount, CA	aou.ii		N EQUIPMENT TYF		Centrifugal Pump /	18-P-253A/B	<u> </u>
٠,	SIIL. Fai	amount, CA					Centinugar Fullip	10-F-233A/B	
5				DESIGN DATA	AND ACCESSOR	RY EQUIPMENT			
6	NAMEPLATE	20 HP	1.15 S.F.	3450 RPM	POWER (VC	LTAGE/PHASE/HE	ERTZ) 460 /	3 / 60	
7	ROTATION (WHE	N FACING MOTO	R OPPOSITE D	RIVE END):	cw cc	W Fans shall	be bi-directional		•
8	INSULATION CLA	SS: O B	● F	ОНС	VPI TEMP. F	RISE CLASS B	/ °C over	40.6 °C AMBIENT	
9	AREA CLASSIFIC	_	_	, GROUP	B/C/D	DIV. 2	T-RATING T3C		
10	7411271 02710011 10		UNCLASSIFIE		2,0,5	DIV	11011110	, <u> </u>	
	LOCATION:	O INDOOR	OUTDO		D. LINUSUAL C	ONDITIONS: C	DUST O OTHER		∤
11	LOCATION:								<u> </u>
12			EMPERATURE:		°F / MIN.	35 °F	ALTITUDE 69 ft		
13	ENCLOSURE:	TOTALLY-EI			TALLY-ENCLOSE	NONVENTILATE	D O EXPLOSION PRO	U l	
14	MOUNTING METH	HOD:	• FOOT	O FLANGE, T					
15	MOUNTING ARRA	ANGEMENT:	HORIZO	ntal O ve	RTICAL SHAFT DO	OWN O VE	ERTICAL SHAFT UP		
16	BEARING TYPE:	BALL	O ROLLER	BEARING L	UBRICATION:	GREASE	O OIL O PURE OI	L MIST	L
17	CONNECTION TO	LOAD:	DIRECT CON	NECTED O V-	BELT O THI	ROUGH GEAR	O CLOSE COUPLED		
18	EQUIPMENT OPE	RATION:	CONTINUOUS	O SF	PARED CONTINUO	JS	O INTERMITTENT-CYCL	ES / DAY	
19	SOUND PRESSU	RETEVEL REQU	IREMENTS:	85	dBA @	3	FEET		-
20	STARTING:	•	FULL VOLTAG		CED VOLTAGE,	80	% OF VOLTAGE Starting \	/oltage Din Allowance	1
21	0174111110.	0	UNLOADED	• LOADE	•		OR POWER FACTOR CORREC		-
	• CDACELIEAT	_						STION	2
22	O SPACE HEAT			1	PHASE		MAX. TEMP		
23	_	ERMINAL BOX		DRAIN PLUGS	Terminal Box shall b	e the largest feasible	for the motor frame.		-
24	SS NAMEPLA		AUXILIARY NA				_		
25	TEST	ROUTINE	O CO	MPLETE	VIBRATION	● REPOR	T • FOOT FLATNESS		
26	REMARKS: 8.1	This data sheet	applies to moto	rs 1/2 hp through 50	0 hp with anti-fricti	on bearings.			
27	8.2)	Space heaters ar	e required for 1	00 hp and above.					
28	8.3)	IP55 degree of pr	otection is requ	iired.					
29	8.4)	Average relative	humidity is 54%).					
30			IN	FORMATION BELO	W TO BE COMP	LETED BY VEN	DOR		
31	MOTOR MFR.	ABB	Baldor	MODEL	10-000	-2636	SERIAL NO.		1
32	NAMEPLATE HP	20)	FULL LOAD RPM	3520	FRAME	284TS WEIGHT	396 LB	1
33	MOTOR OUTLINE	DRAWING NO		10L`	YJ567				1
34	ROTOR CAGE MA		STRUCTION			WINDING MATER	RIAL Cu		1
35			o into o non		SKF	SIZE	6311		1
	BEARING MANUF		RING: TYPE	N/A	CAPACITY: UP			CATION NIA	1
36	VERTICAL MOTO	IN THINUST DEAD	NING. ITPE	IVA	CAFACITE UP	LDS D	OWN <mark>N/A LBS LOC</mark>	CATION N/A	<u> </u>
37	LOAD	F	0//	4/0	IED 1.0017=1	DOTOR ALIES	4.0	44400	
38	LOAD	FULL	3/4	1/2 OTH		D ROTOR AMPS*	143	AMPS	1
39	AMPERES	22.8	17.6	12.5 N/		DAD TORQUE*	29.9	FT-LB	1
40	EFFICIENCY, %	91.2	91.3	90.4 N/	A LOCKED	ROTOR TORQUE*	45.3	FT-LB	1
41	POWER FACTOR	90	88	83 N/	PULL U	P TORQUE*	35.3	FT-LB	1
42	SPEED, RPM	3520	3544	3564 N/	A BREAK	DOWN TORQUE*	86	FT-LB	1
43					ACCEL.	TIME W/ LOAD (0	TO FULL SPEED)*	0.9 SEC.	1
44	SOUND LEVEL: G	GUARANTEED	<90 dBA /	EXPECTED 80 dE	A STALL	TIMES AT ZERO RI	PM* - HOT / COLD 32	/ 55 SEC.	1
45	FAN MATERIAL	Polypropy	lene MP5000	(NON-SPARKIN	G) NUMBE	R OF CONSECUT	IVE STARTS* 1	Hot / 2 Cold	1
46						TED AT RATED VC			
ı		BIEGES:	TION BELOW-	0 DE DB0\#5=5 5::					4
47						-	R TO RFQ/PO DOCUMENTS)		4
48	_	CURRENT CURV	'E				TARING OR OPERATION OF:		
49		RQUE CURVE			OTOR°F	O STATOR	°F O ENCLOS	URE °F	
50	50 SAFE LOCKED ROTOR TIME HOT COLD								
51	51 NOTES:								
52									
53									
54									
55									
56	8.9 Grounding provisions are required for inside and outside the motor connection box.								
57	or annum provision are required for mone and enterior formed and both								
									_

These documents contain confidential and proprietary information of Fluor Enterprises, Inc. They are provided under a Secrecy or Confidentiality Agreement with Fluor and are to be used solely in accordance with the provisions of the relevant agreement. These documents are copyrighted as an unpublished work. Copyright resides with Fluor Corporation. All Rights Reserved. Unauthorized copying, reproduction or use of these documents may result in copyright infringement or other crimes punishable in both civil and criminal courts.

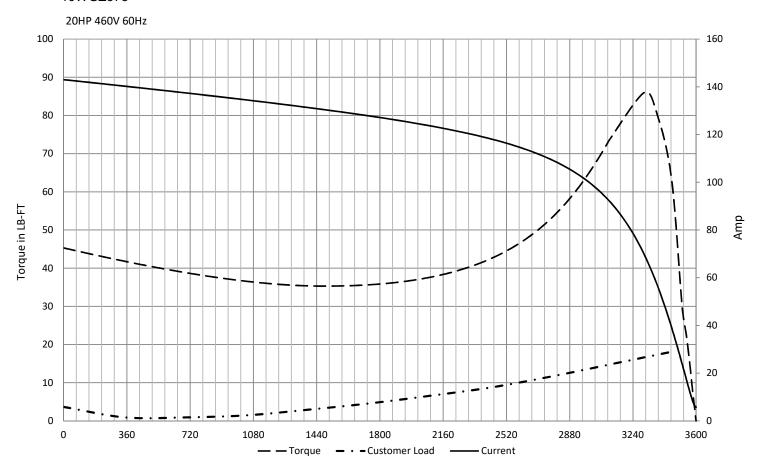




SPEED TORQUE / SPEED CURRENT CURVE

BALDOR • RELIANCE !

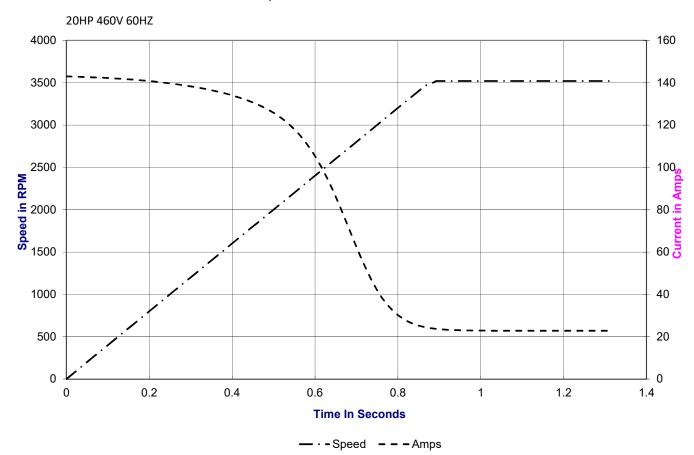
10WGZ578



Speed Time / Current Time Curve

BALDOR • RELIANCE I

10WGZ578 : Variable Torque : 1.8 lb-ft² Load Inertia



Page: 303 of 2097

THERMAL LIMIT CURVE

BALDOR • RELIANCE I

10WGZ578

20HP 460V 60HZ

