

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3714T-5

10HP, 1770RPM, 3PH, 60HZ, 215TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	10.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS314
Layout	37LYL779
Eff. date	10-06-2020
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	02-11-2019

KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.66 IN
Power Factor	81
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1953C05									
CAT.NO.	VESSWDM3714T-5								
SPEC.	37-0000-0007								
HP	10								
VOLTS	575								
AMP	10.1								
RPM	1770								
FRAME	215TC			HZ	60		PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF	92.4		PF	81					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	4:1CT 20:1VT								

Parts List

Part number	Description	Quantity
SA366080	SA 37-0000-0007	1.000 ea
RA355488	RA 37-0000-0007	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 ea
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104S37	THRUBOLT- .31-18 X 15.312 SS	4.000 ea
37EP1907A01	FRONT TEFC 206 BRG NO GRSR S/P 9-2 (STAI	1.000 ea
HW4606A03	JM CLIPPER/SEAL (LWE-1156-1875-AL44)	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
37EP1908A02	PU EP FOR LOCKED 307 BRG	1.000 ea
HW4606A04	JM CLIPPER/SEAL (LWE-1376-2125-AL45)	1.000 ea
10XN2520S32	1/4-20 X 2 HEX HEAD SS	4.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
37CB1004A01	CONDUIT BOX, MACH	1.000 ea
37GS3011	1/8"WHITE NEOPRENE BOX GS	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 ea
37GS3010SP	1/16"WHITE LID GASKET	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 ea
PE-0000012	ZRTG PE ASSEMBLY	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 44679

Typical performance - not guaranteed values

Winding: 09WGX910-R030			Type: 0944M		Enclosure: TEFC		
Nameplate Data				400 V, 50 Hz: High Voltage Connection			
Rated Output (KW)		11		Full Load Torque		53.7 LB-FT	
Volts		200/400		Start Configuration		direct on line	
Full Load Amps		42/21		Breakdown Torque		163 LB-FT	
R.P.M.		1460		Pull-up Torque		80.2 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque		100 LB-FT	
NEMA Design Code		N	KVA Code	G		Starting Current	131 A
Service Factor (S.F.)		1		No-load Current		8.35 A	
NEMA Nom. Eff.		91.4	Power Factor	83		Line-line Res. @ 25°C	0.559 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C	
				Locked-rotor Power Factor		36.7	
				Rotor inertia		1.92 LB-FT ²	

Load Characteristics 400 V, 50 Hz, 11 KW

% of Rated Load	25	50	75	100	125	150
Power Factor	47	71	79	84	85	86
Efficiency	88.2	92.2	92	91.4	90.2	88.7
Speed	1491	1482	1473	1463	1452	1439
Line amperes	9.59	12.4	16.6	21	26.3	31.7

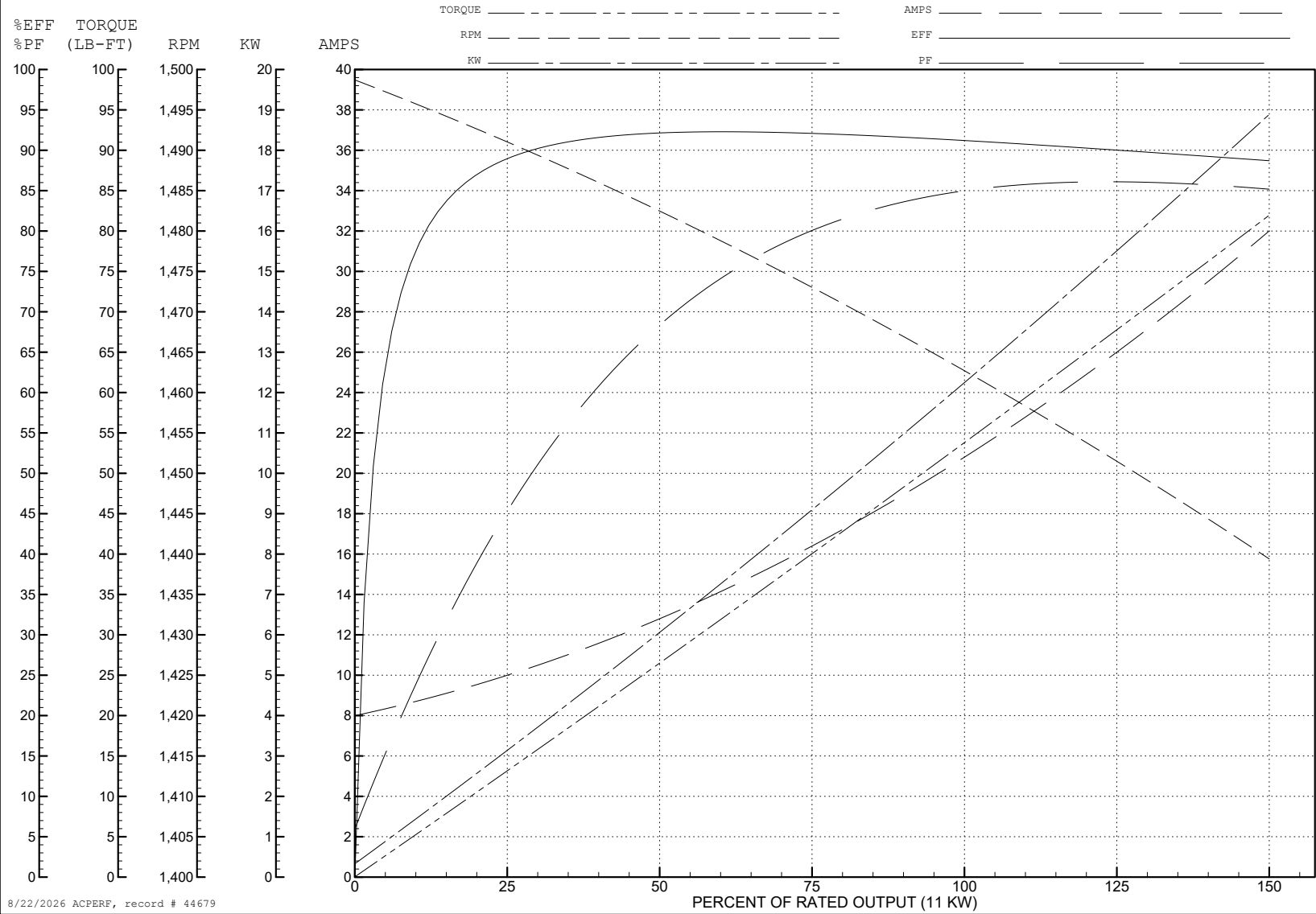
ABB Motors and Mechanical Inc.

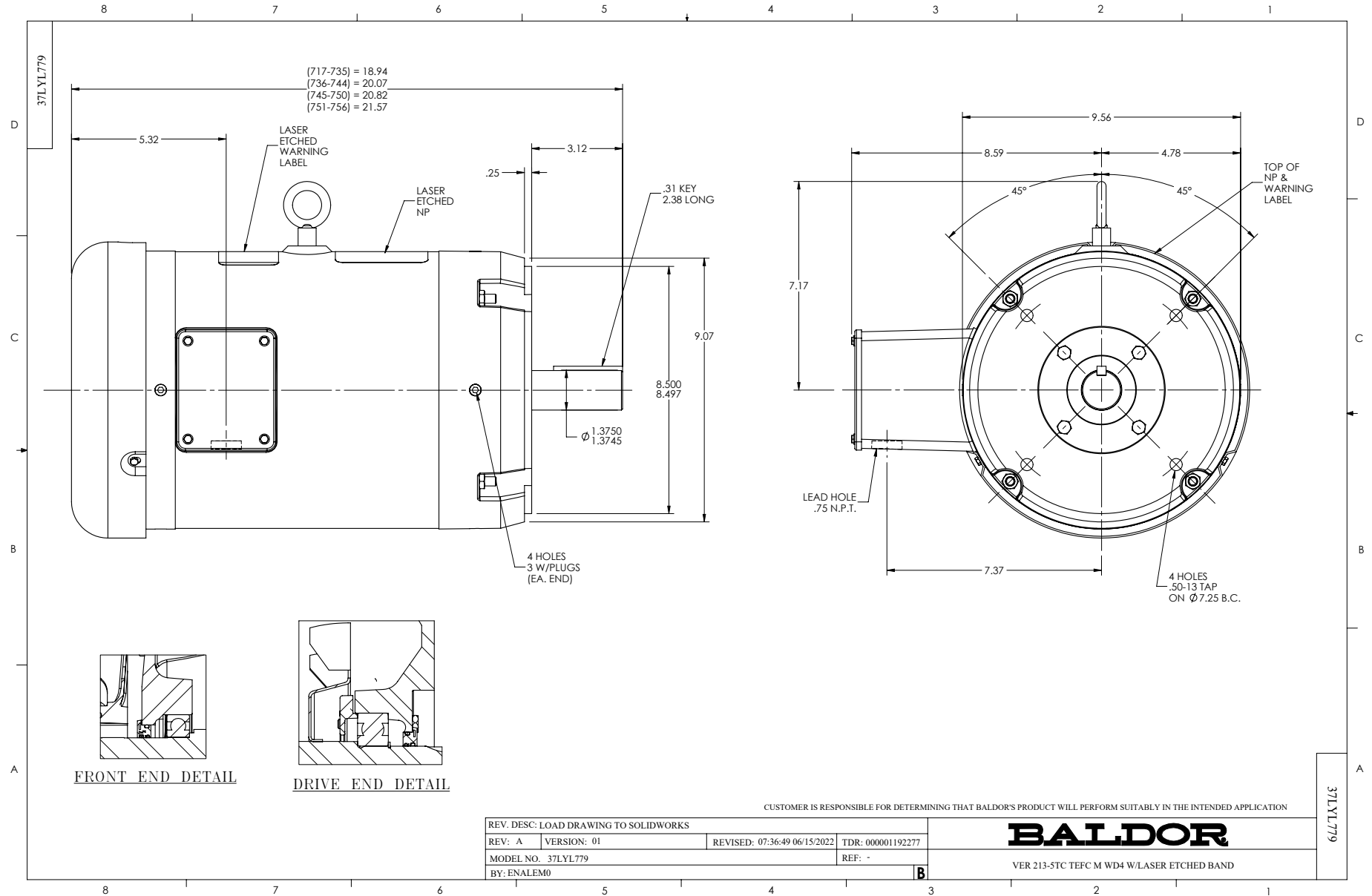
WINDING # 09WGZ910

Typical performance - not guaranteed values.

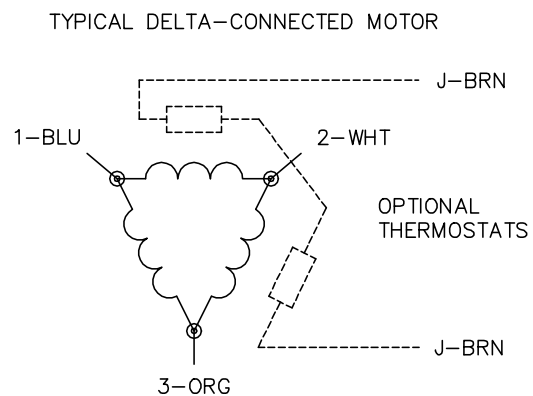
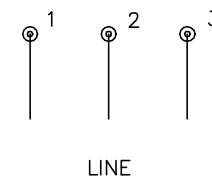
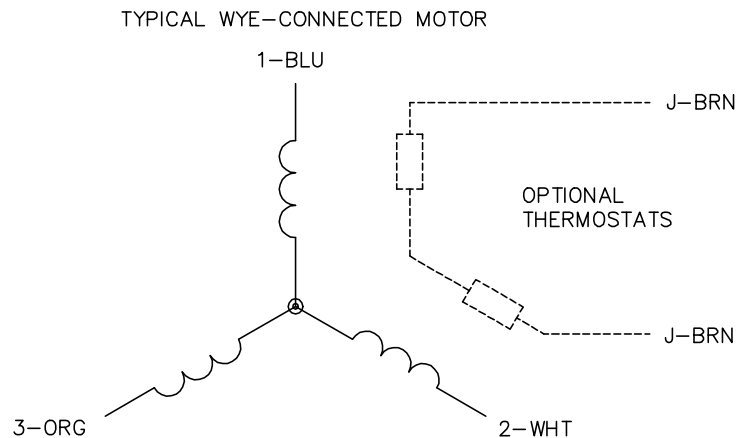
11 KW 3 PH 50 HZ 1460 RPM 400 V 0944M

TORQUES (LB-FT): PO=163 PU=80.2 LR=100 LRA=131





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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