ABB BALDOR RELIANCE

Customer information packet

VESSWDM3714T-5

10HP, 1770RPM, 3PH, 60HZ, 215TC, TEFC, F1
Class - None
Division - Not Applicable

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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								

AC Induction Motor Performance Data
Record # 44679
Typical performance - not guaranteed values

Winding: 09WGZ910-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. @ 25ºC**	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-FT2

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

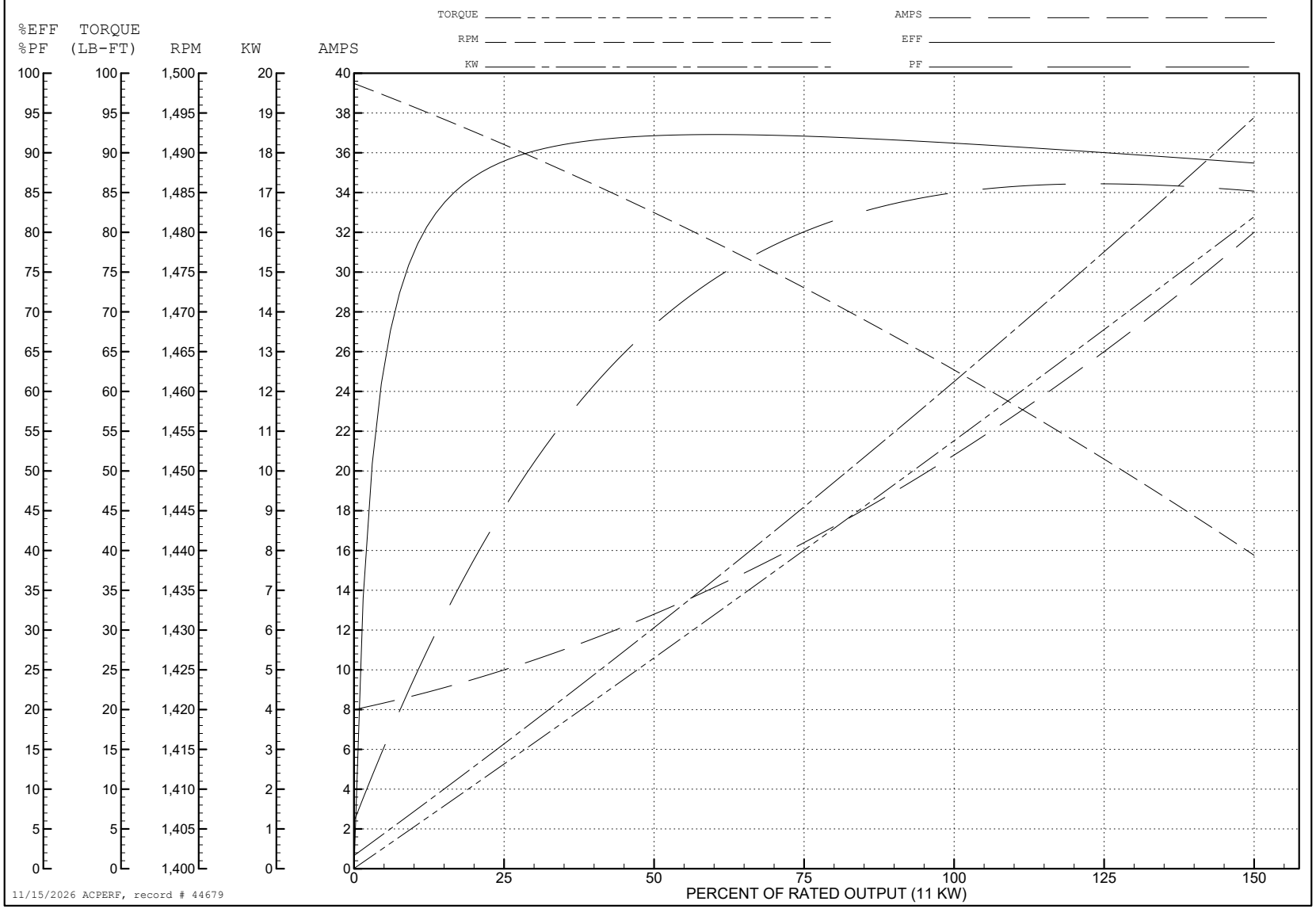
ABB Motors and Mechanical Inc.

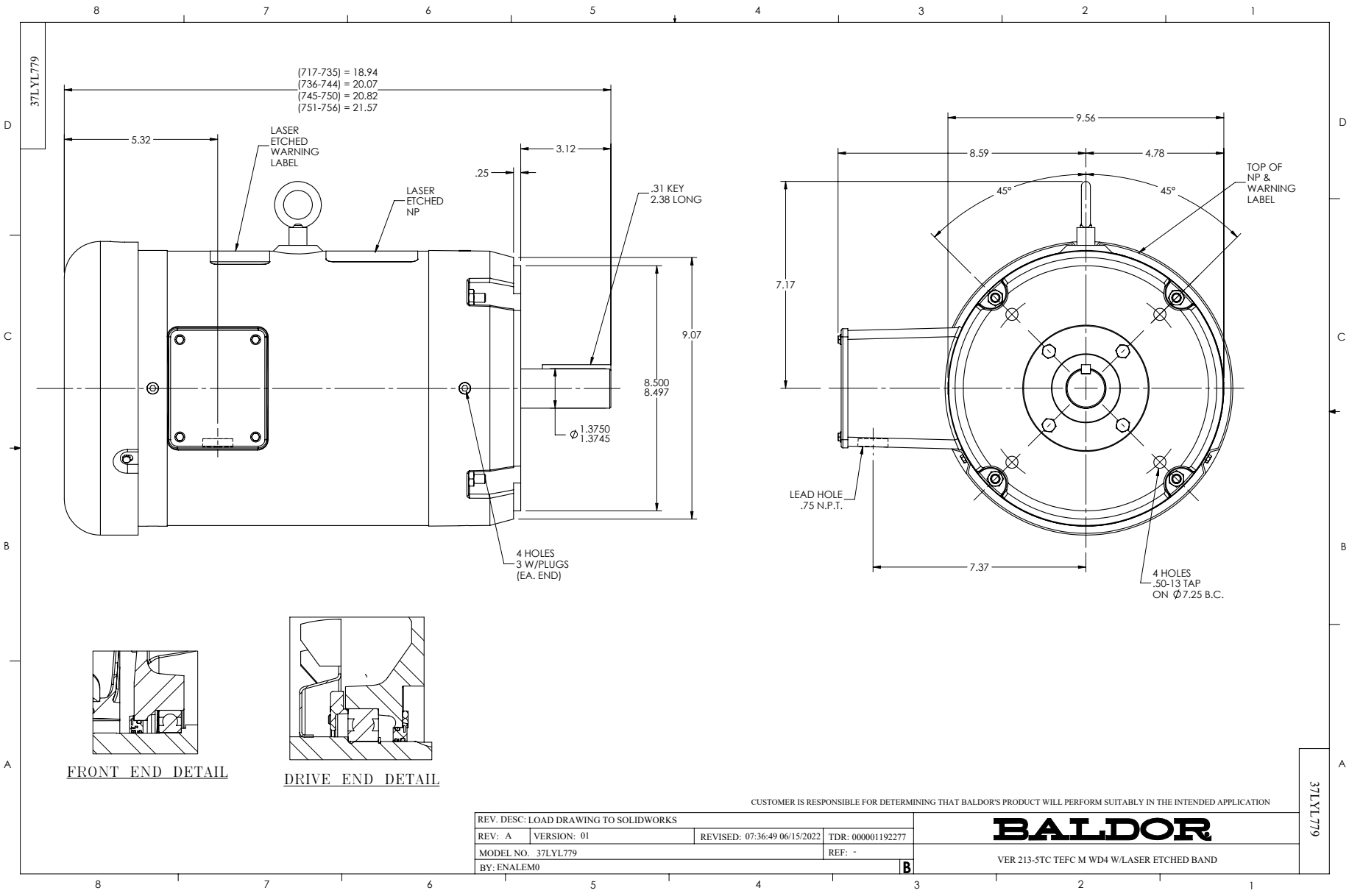
WINDING # 09WGZ910

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

Typical performance - not guaranteed values.

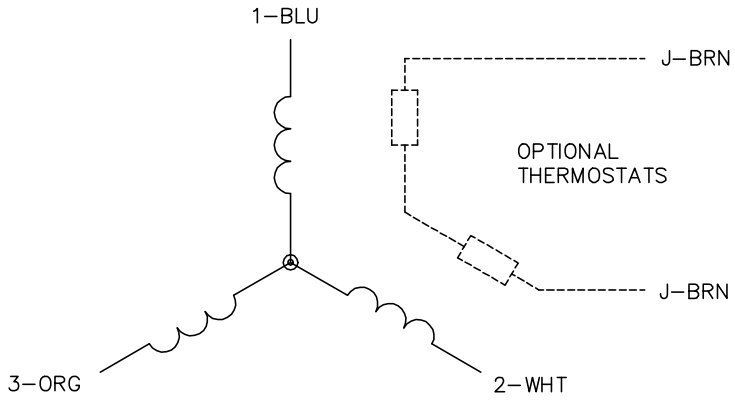
TORQUES(LB-FT): PO=163 PU=80.2 LR=100 LRA=131

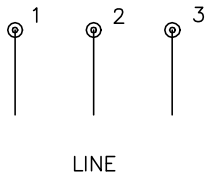



37LYL779
(717-735) = 18.94
(736-744) = 20.07
(745-750) = 20.82
(751-756) = 21.57
5.32
LASER ETCHED WARNING LABEL
LASER ETCHED NP
3.12
.25
.31 KEY 2.38 LONG
9.07
8.500
8.497
Ø 1.3750
1.3745
4 HOLES 3 W/PLUGS (EA. END)
9.56
8.59
4.78
45°
45°
TOP OF NP & WARNING LABEL
7.17
LEAD HOLE .75 N.P.T.
7.37
4 HOLES .50-13 TAP ON Ø 7.25 B.C.
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 07:36:49 06/15/2022
TDR: 000001192277
MODEL NO. 37LYL779
REF: -
BY: ENALEM0
B
BALDOR
VER 213-5TC TEFC M WD4 W/LASER ETCHED BAND
37LYL779

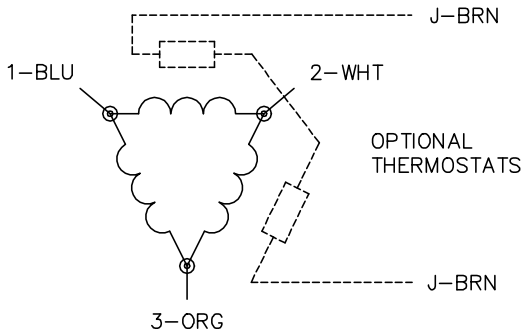
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1