ABB BALDOR RELIANCE

Customer information packet

CDRX28344T-5

30HP, 1770RPM, 3PH, 60HZ, 286TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	29.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY759
Layout	10LYE949
Eff. date	11-22-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	07-19-2019

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-0938			**INV.TYPE**	PWM						
CAT.NO.	CDRX28344T-5			**C HP FR**	60	**C HP TO**	90				
HP	30			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	29		**MAG CUR**	11.5							
RPM	1770		**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	93.6				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	4.46				
FRAME	286TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINE WAVE			NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 77593
Typical performance - not guaranteed values

Winding: 10WGY759-R001	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	89.2 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			29	**Breakdown Torque**	255 LB-FT
R.P.M.			1770	**Pull-up Torque**	120 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	136 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	177 A
Service Factor (S.F.)			1	**No-load Current**	11.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.384 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	31.7
				Rotor inertia	4.45 LB-FT2

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	69	77	84	84	83
Efficiency	90.9	93.8	94.4	94.1	92.9	92.5
Speed	1794	1786	1780	1773	1764	1754
Line amperes	13.3	17.6	23.4	28.5	35.9	43.6

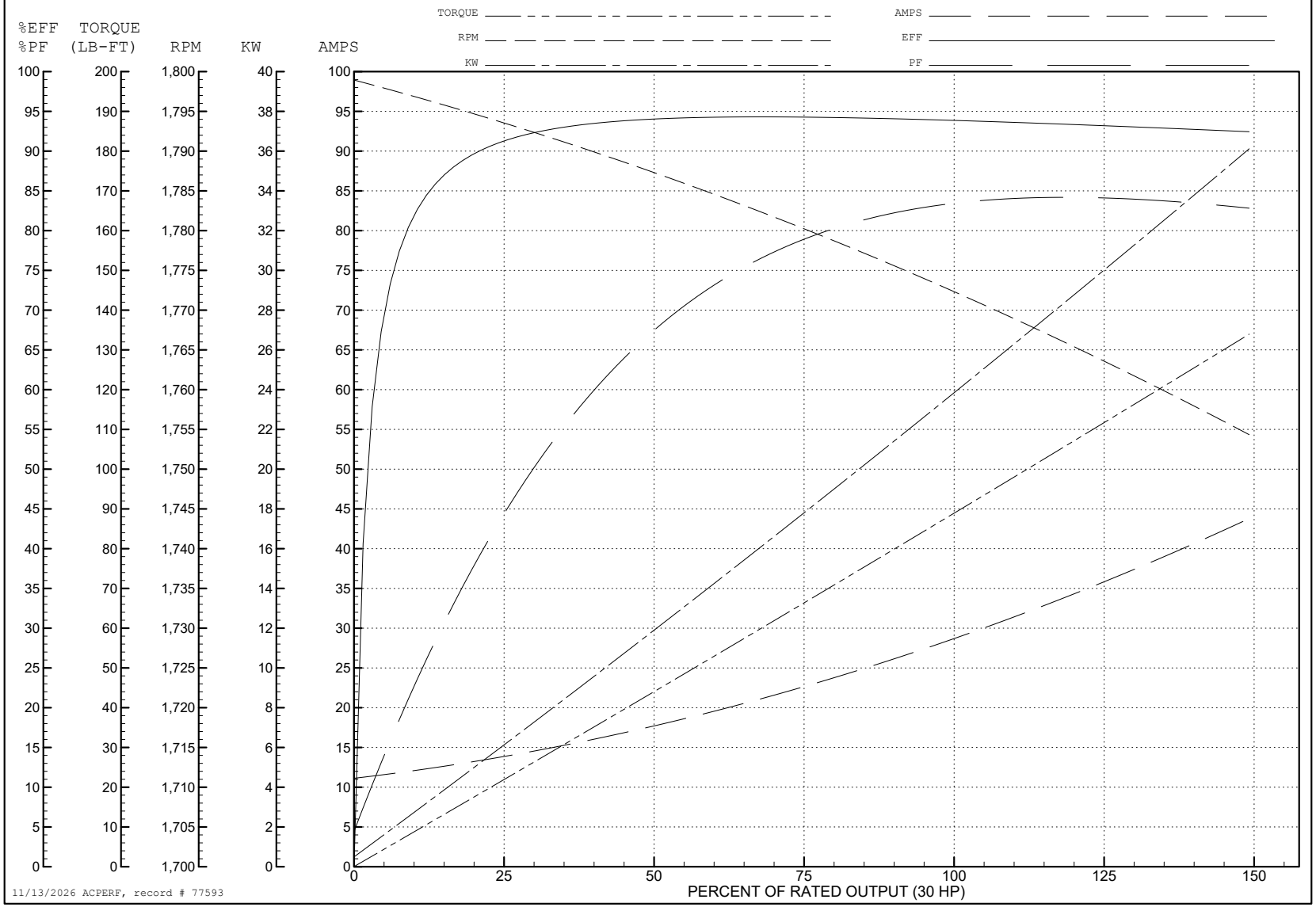
ABB Motors and Mechanical Inc.

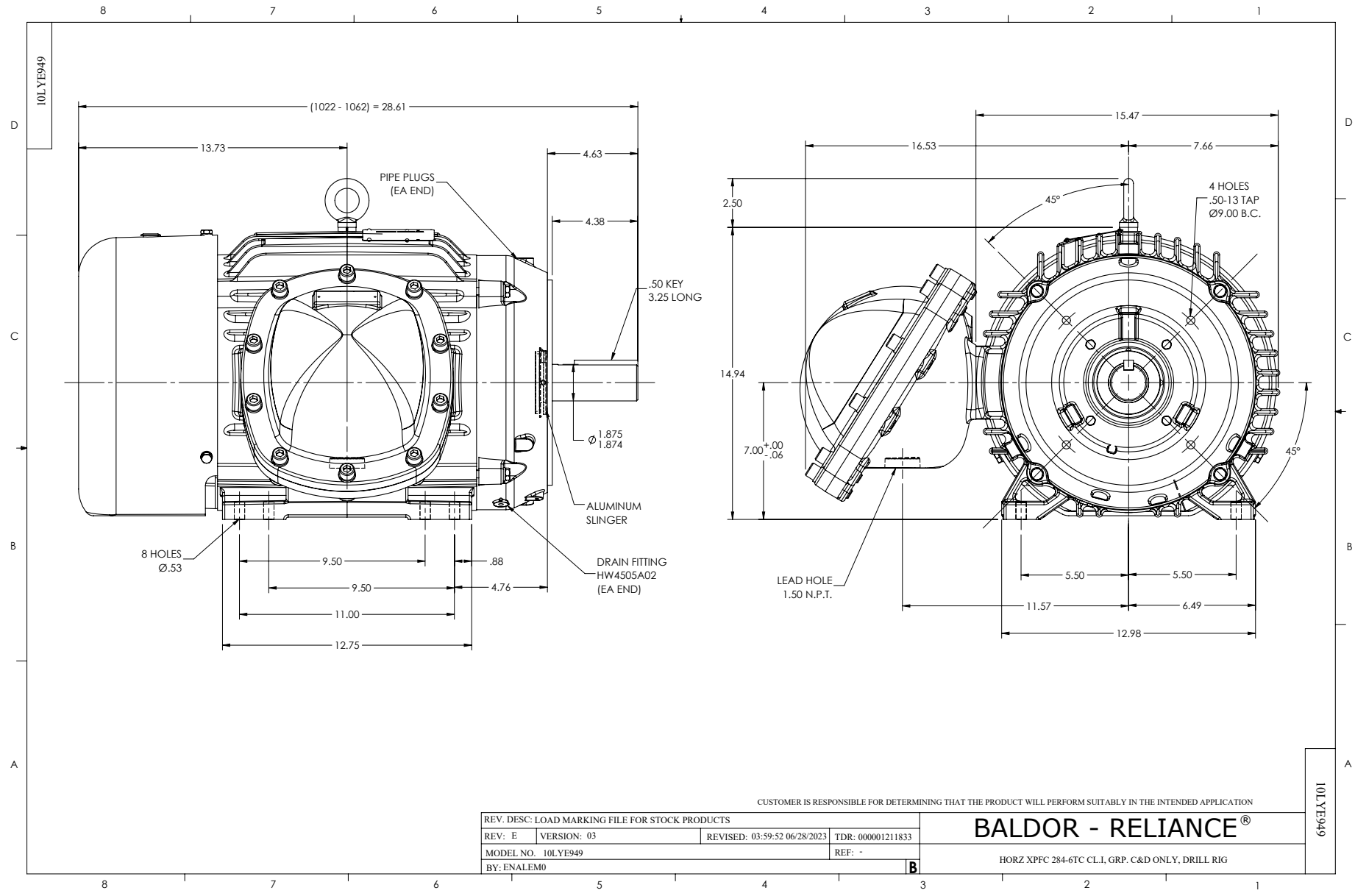
WINDING # 10WGY759

30 HP 3 PH 60 HZ 1770 RPM 575 V 1056M

Typical performance - not guaranteed values.

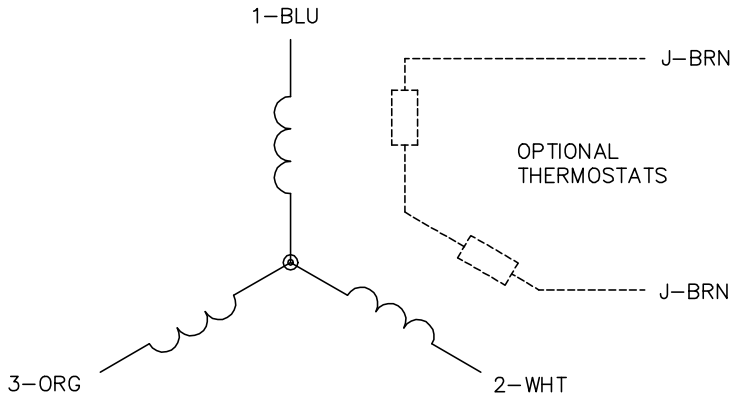
TORQUES(LB-FT): PO=255 PU=120 LR=136 LRA=177

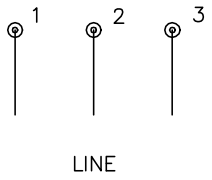



10LYE949
(1022 - 1062) = 28.61
13.73
4.63
4.38
PIPE PLUGS
(EA END)
.50 KEY
3.25 LONG
Ø 1.875
1.874
ALUMINUM
SLINGER
8 HOLES
Ø.53
9.50
.88
9.50
4.76
11.00
12.75
DRAIN FITTING
HW4505A02
(EA END)
15.47
16.53
7.66
2.50
45°
4 HOLES
.50-13 TAP
Ø9.00 B.C.
14.94
7.00 +.00 -.06
45°
LEAD HOLE
1.50 N.P.T.
5.50
5.50
11.57
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: E
VERSION: 03
REVISED: 03:59:52 06/28/2023
TDR: 000001211833
MODEL NO. 10LYE949
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TC CL.I, GRP. C&D ONLY, DRILL RIG
10LYE949

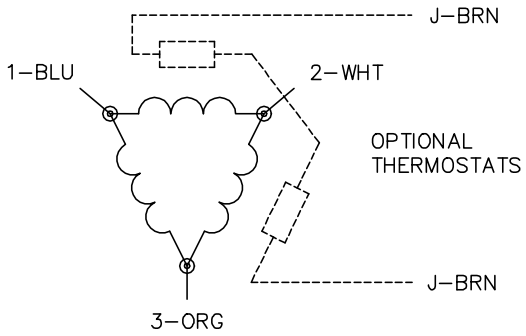
CD0006

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