ABB BALDOR RELIANCE

Customer information packet

CDRX32524T-5

50HP, 3560RPM, 3PH, 60HZ, 326TSC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326TSC
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	45.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	45.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY735
Layout	12LYH659
Eff. date	12-10-2024
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	07-24-2019

IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	89
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	3560 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.	12-0000-0859				**INV.TYPE**	PWM						
CAT.NO.	CDRX32524T-5				**C HP FR**	60	**C HP TO**	90				
HP	50				**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575				**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	45			**MAG CUR**	14.1							
RPM	3560			**MX RPM**	5400							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	93					
SER.F.	1.00	**DES**	A	**SL HZ**	0.67	**WK2**	5.01					
FRAME	326TSC	**RATING**	40C AMB-CONT									
	55C AMB @ 1.0 SF, 60C RISE											
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 77589
Typical performance - not guaranteed values

Winding: 12WGY735-R002	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			50	**Full Load Torque**	74.1 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			45	**Breakdown Torque**	287 LB-FT
R.P.M.			3560	**Pull-up Torque**	107 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	137 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	404 A
Service Factor (S.F.)			1	**No-load Current**	14.1 A
NEMA Nom. Eff.	93	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.132 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps				**Temp. Rise @ S.F. Load**	64°C
				Locked-rotor Power Factor	21.5
				Rotor inertia	4.98 LB-FT2

Load Characteristics 575 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	58	79	86	89	90	91
Efficiency	91.4	94.2	94.6	94.5	94	93.4
Speed	3590	3581	3570	3560	3549	3539
Line amperes	17.9	25.4	34.8	44.5	55.2	65.9

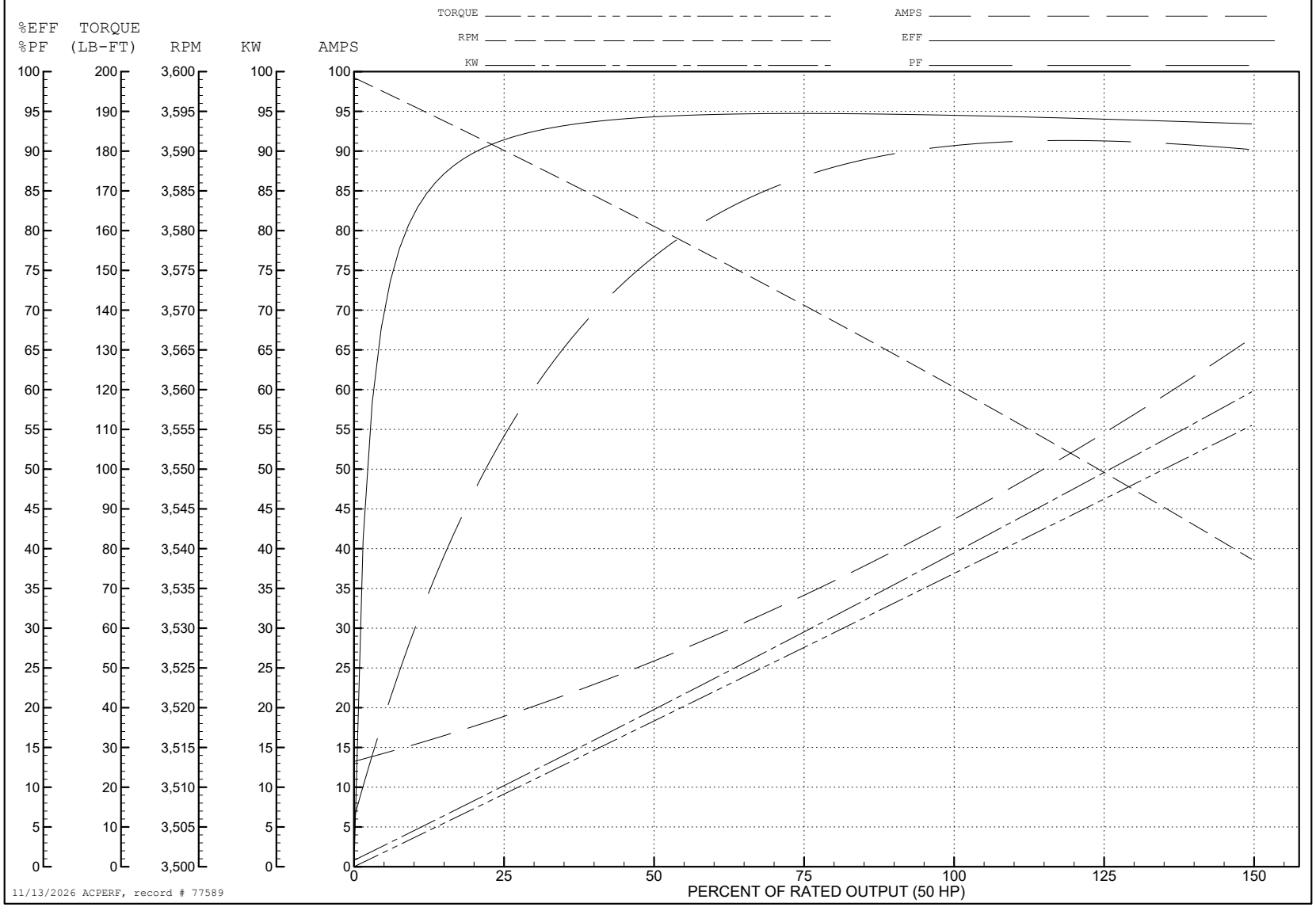
ABB Motors and Mechanical Inc.

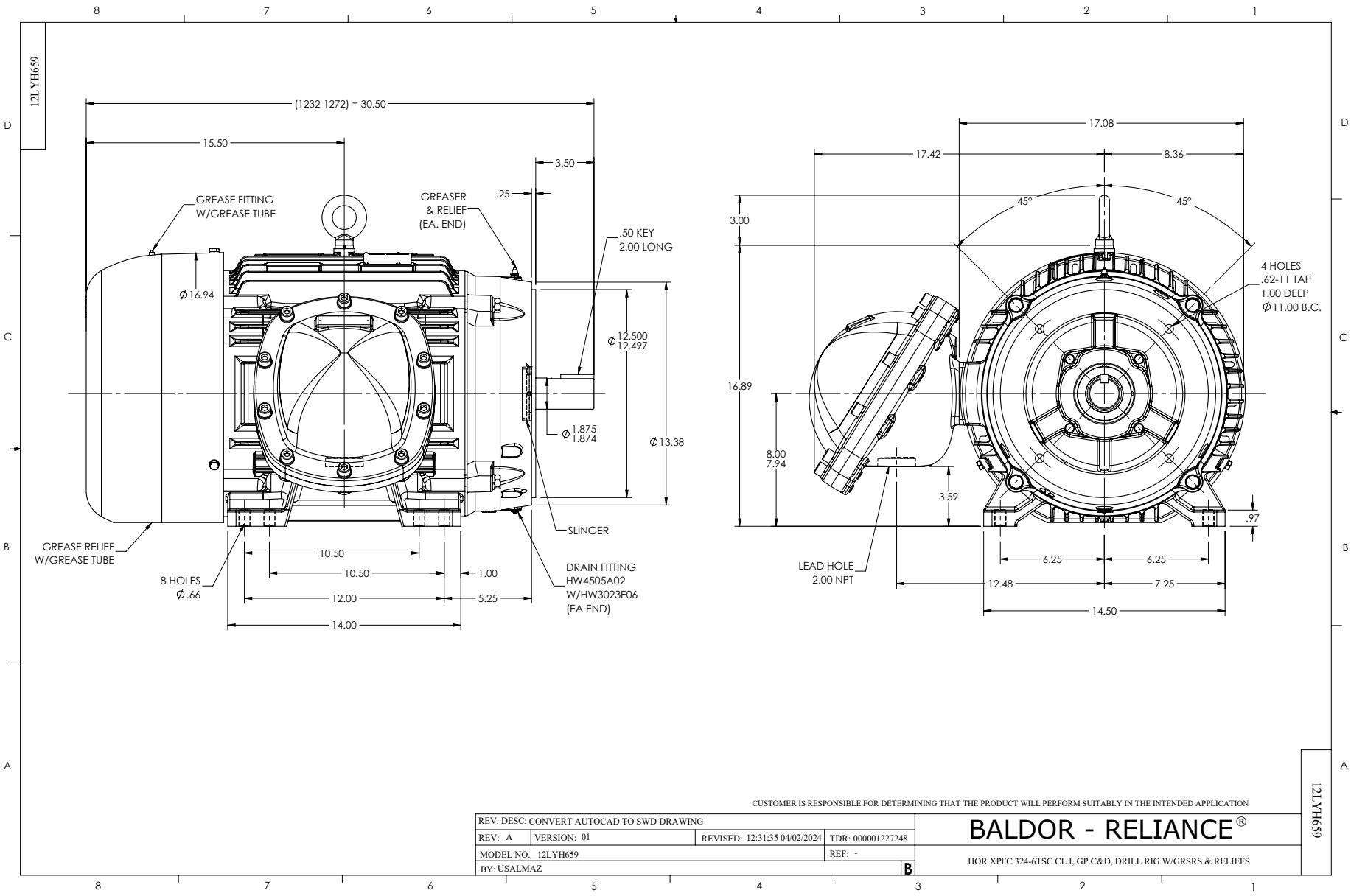
WINDING # 12WGY735

50 HP 3 PH 60 HZ 3560 RPM 575 V 1264M

Typical performance - not guaranteed values.

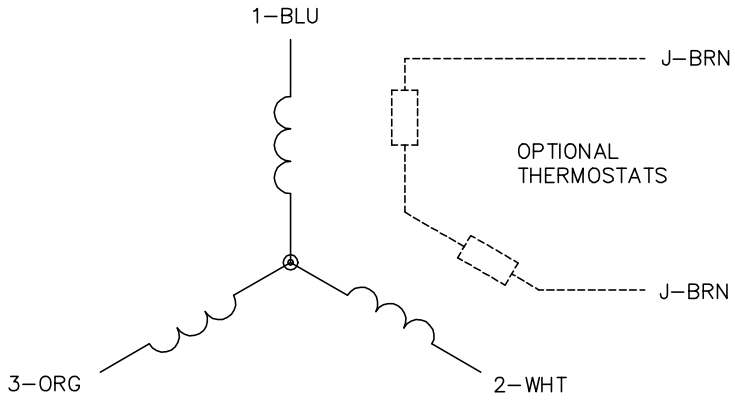
TORQUES(LB-FT): PO=287 PU=107 LR=137 LRA=404

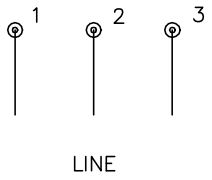



12LYH659
(1232-1272) = 30.50
15.50
3.50
.25
GREASE FITTING
W/GREASE TUBE
GREASER
& RELIEF
(EA. END)
.50 KEY
2.00 LONG
Ø16.94
Ø 12.500
12.497
Ø 1.875
1.874
Ø13.38
SLINGER
GREASE RELIEF
W/GREASE TUBE
8 HOLES
Ø .66
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING
HW4505A02
W/HW3023E06
(EA END)
17.08
17.42
8.36
45°
45°
3.00
4 HOLES
.62-11 TAP
1.00 DEEP
Ø11.00 B.C.
16.89
8.00
7.94
3.59
.97
LEAD HOLE
2.00 NPT
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 12:31:35 04/02/2024
TDR: 000001227248
MODEL NO. 12LYH659
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR XPFC 324-6TSC CL.I, GP.C&D, DRILL RIG W/GRSRS & RELIEFS
12LYH659

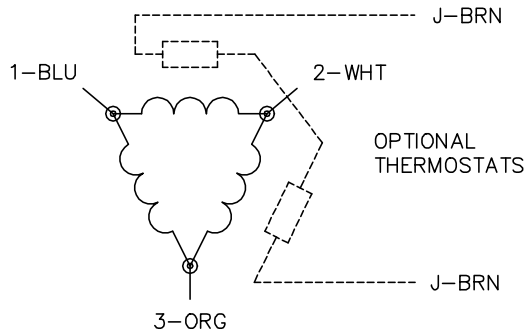
CD0006

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

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REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

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

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