

ABB BALDOR RELIANCE III

Customer information packet

CDRX28324T-5

30HP, 3520RPM, 3PH, 60HZ, 286TSC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	286TSC
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	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	26.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	26.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ218
Layout	10LYG898
Eff. date	06-11-2025
CD Diagram	CD0006
Poles	02
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	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.23 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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.	10-0000-0935						INV.TYPE	PWM				
CAT.NO.	CDRX28324T-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	26				MAG CUR		6.9					
RPM	3520				MX RPM		5400					
HZ	60	PH	3	CL	F	NOM.EFF.	91.7					
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	1.98					
FRAME	286TSC		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 # 77475

Typical performance - not guaranteed values

Winding: 10WGZ218-R002			Type: 1046M		Enclosure: XPFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		44.4 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		26	Breakdown Torque		165 LB-FT		
R.P.M.		3520	Pull-up Torque		59.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		78.3 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		175 A
Service Factor (S.F.)		1	No-load Current		6.89 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.38 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		23.5	
				Rotor inertia		1.97 LB-FT2	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	65	84	89	91	92	91
Efficiency	89.7	92.9	93.4	92.7	92.3	91.3
Speed	3580	3561	3543	3524	3502	3478
Line amperes	9.46	14.5	20.1	26.4	33.2	40.5

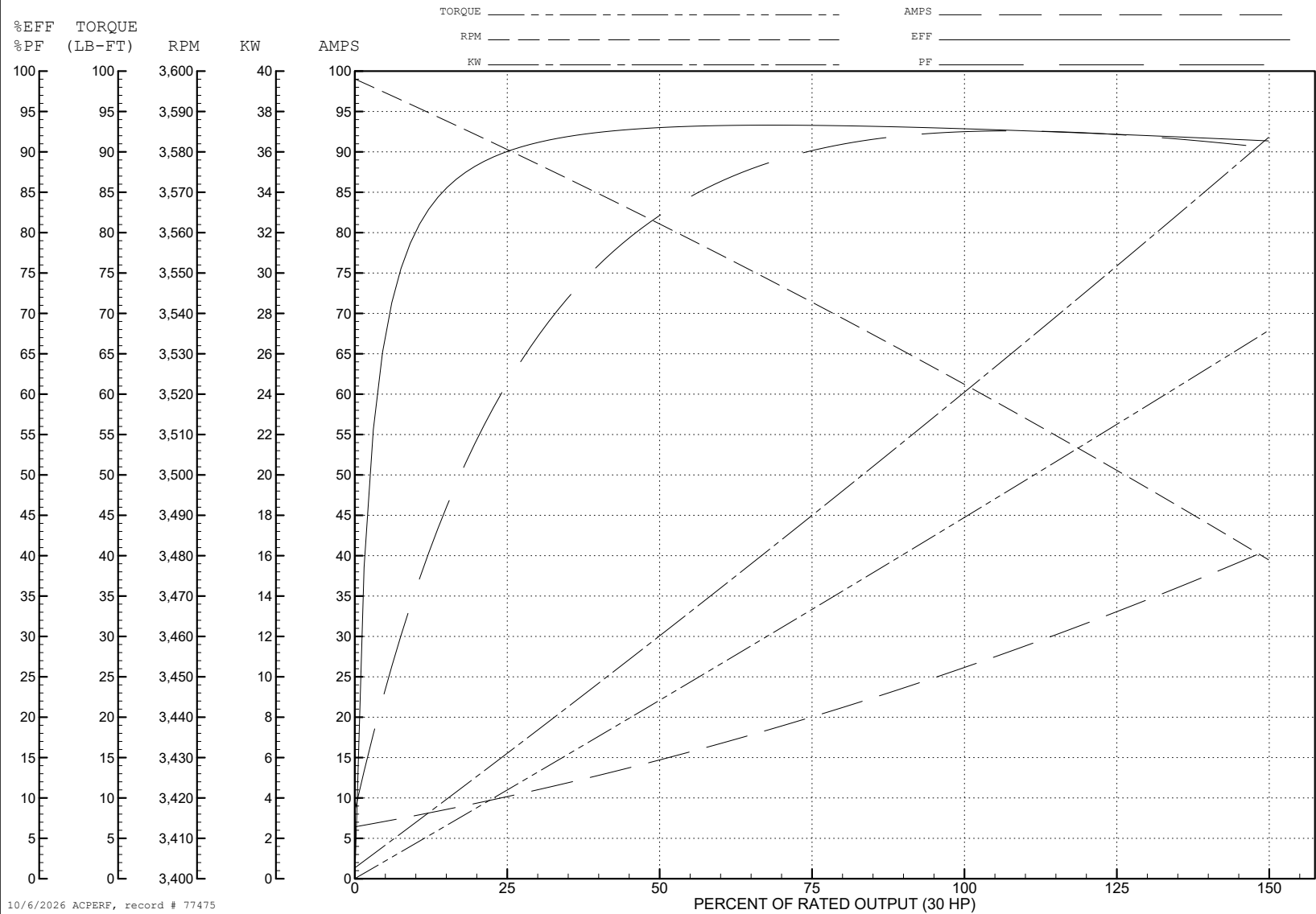
ABB Motors and Mechanical Inc.

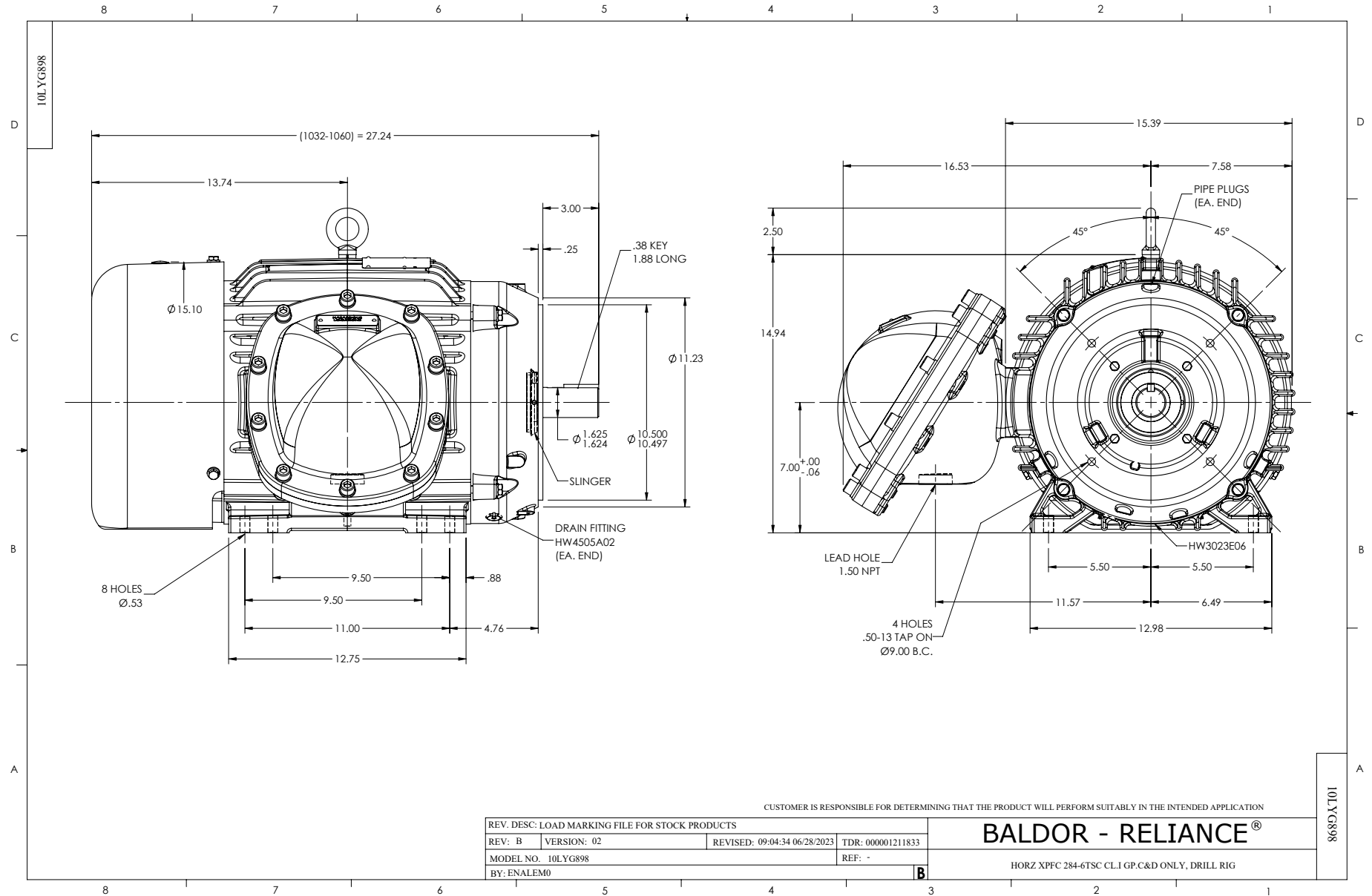
WINDING # 10WGZ218

Typical performance - not guaranteed values.

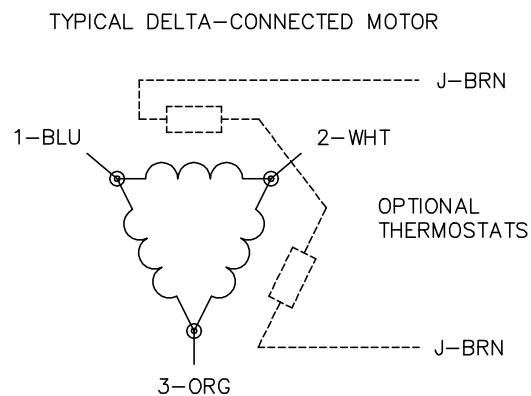
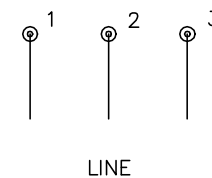
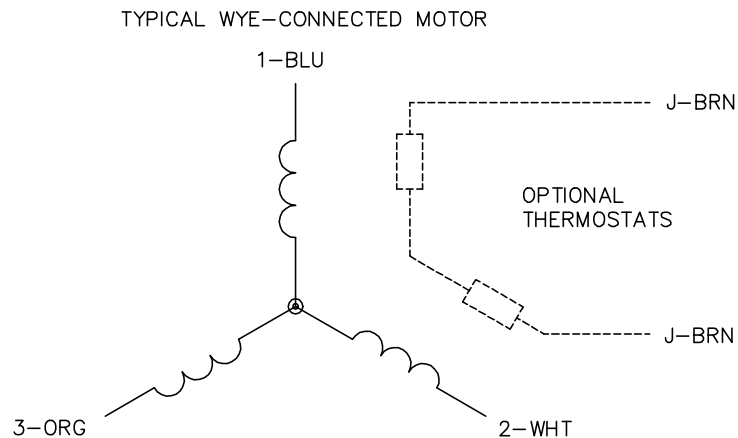
30 HP 3 PH 60 HZ 3520 RPM 575 V 1046M

TORQUES (LB-FT): PO=165 PU=59.5 LR=78.3 LRA=175





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

SH 1 of 1