ABB BALDOR RELIANCE

Customer information packet

CDRX28324T

30HP, 3520//2920RPM, 3PH, 60/50HZ, 286TSC, XP
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TSC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 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	72.000 A @ 208.0 V
	68.000 A @ 190.0 V
	66.000 A @ 230.0 V
	34.000 A @ 380.0 V
	33.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ035
Layout	10LYG898
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-04-2019

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	33.0 a
Insulation Class	F
Inverter Code	Inverter Duty
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.	10-0000-0834			**INV.TYPE**	PWM						
CAT.NO.	CDRX28324T			**C HP FR**	60	**C HP TO**	90				
HP	30//25			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	66/33//68/34		**MAG CUR**	18/9							
RPM	3520//2920		**MX RPM**	5400							
HZ	60//50	**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 # 75696
Typical performance - not guaranteed values

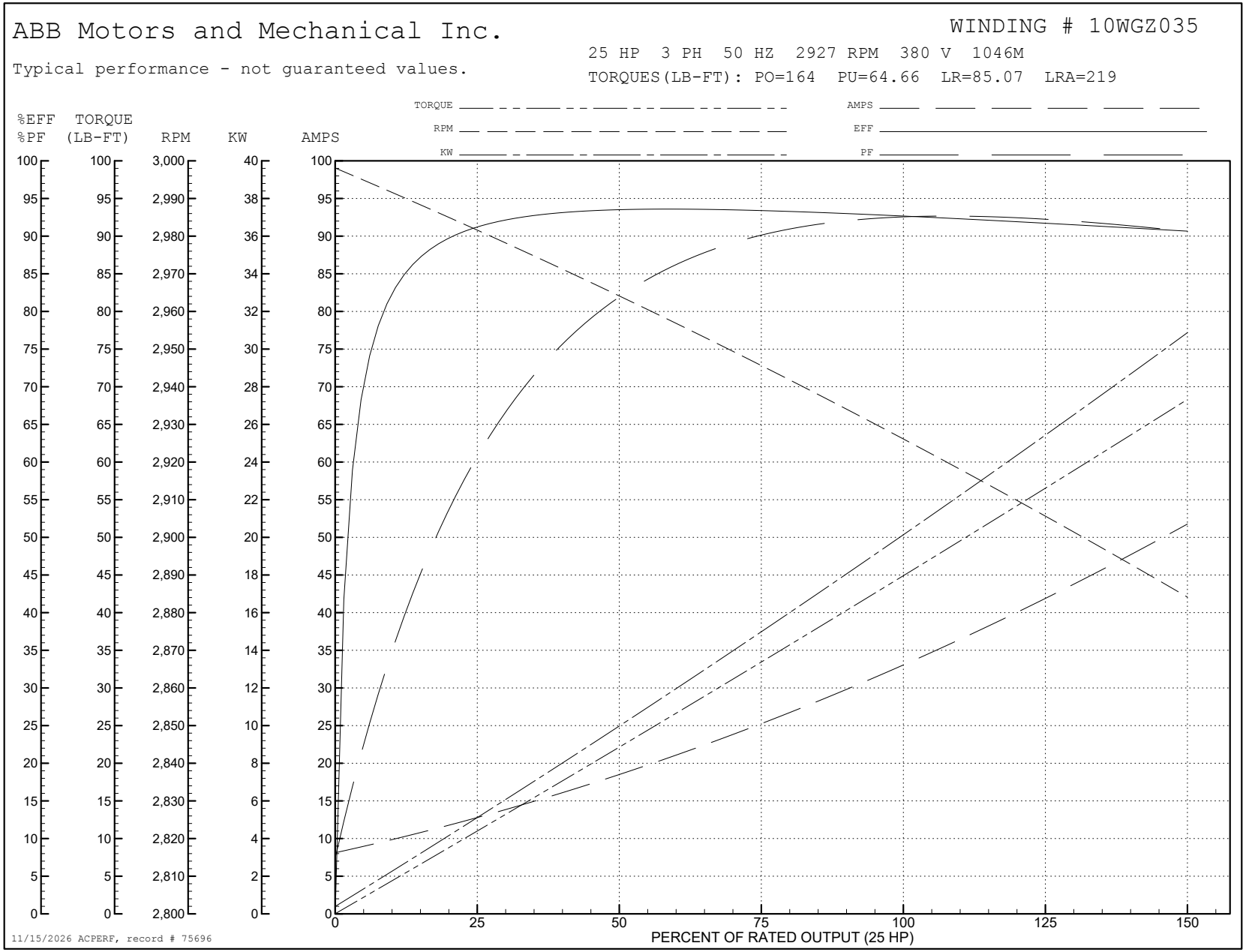
Winding: 10WGZ035-R005	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			66/33//68/34
R.P.M.			3520//2920
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	90
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	44.55 LB-FT
Start Configuration	direct on line
Breakdown Torque	164 LB-FT
Pull-up Torque	64.66 LB-FT
Locked-rotor Torque	85.07 LB-FT
Starting Current	219 A
No-load Current	8.71 A
Line-line Res. @ 25ºC	0.239 Ω
Temp. Rise @ Rated Load	59°C
Locked-rotor Power Factor	26.5
Rotor inertia	1.97 LB-FT2

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	64	83	89	91	92	91
Efficiency	90.9	93.3	93.5	92.5	91.9	90.6
Speed	2981	2963	2946	2927	2907	2883
Line amperes	11.87	18.29	25.38	33.31	42.09	51.47


ABB Motors and Mechanical Inc.
WINDING # 10WGZ035
Typical performance - not guaranteed values.
25 HP 3 PH 50 HZ 2927 RPM 380 V 1046M
TORQUES(LB-FT): PO=164 PU=64.66 LR=85.07 LRA=219
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/15/2026 ACPERF, record # 75696

AC Induction Motor Performance Data
Record # 75697
Typical performance - not guaranteed values

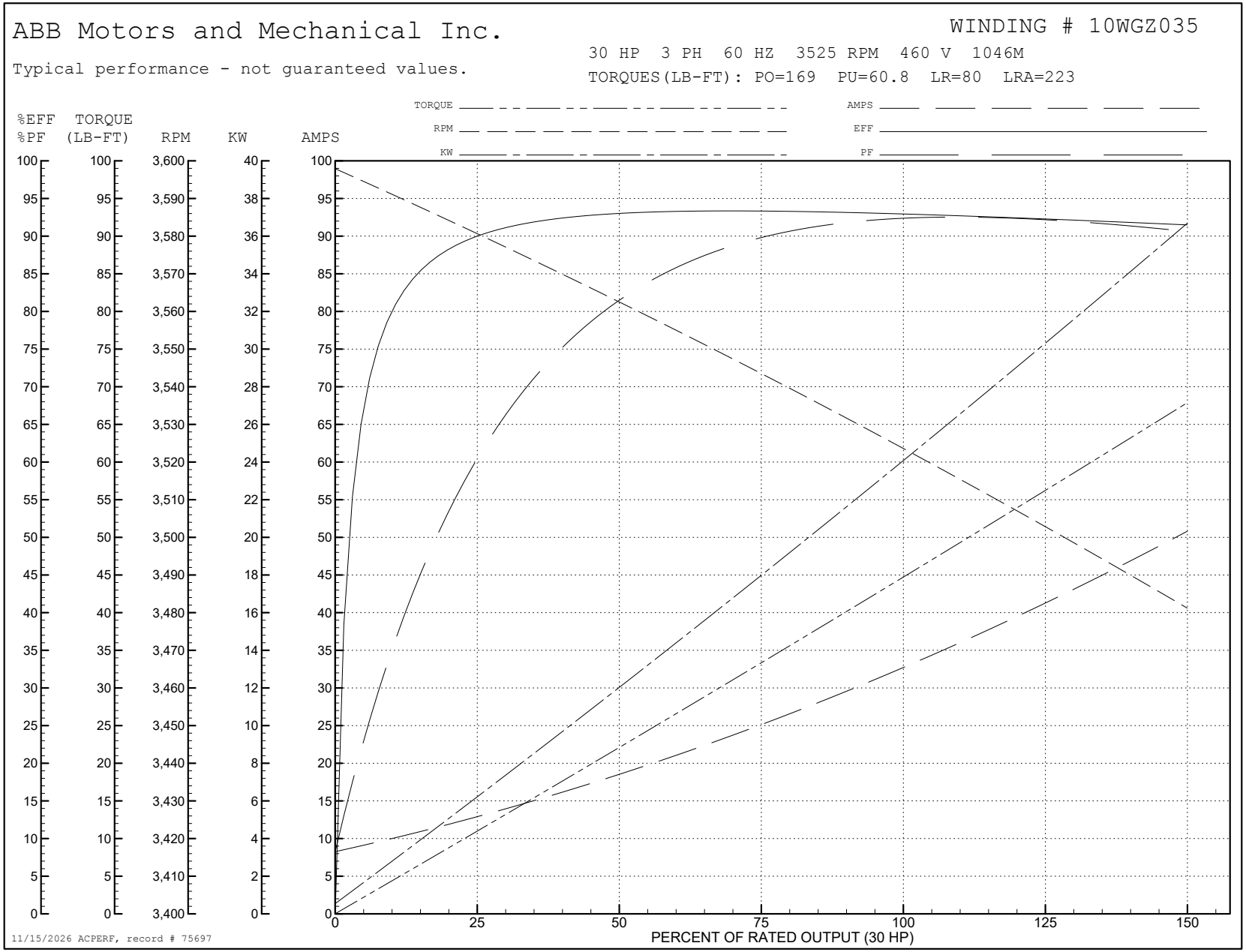
Winding: 10WGZ035-R005	**Type:** 1046M	**Enclosure:** XPFC

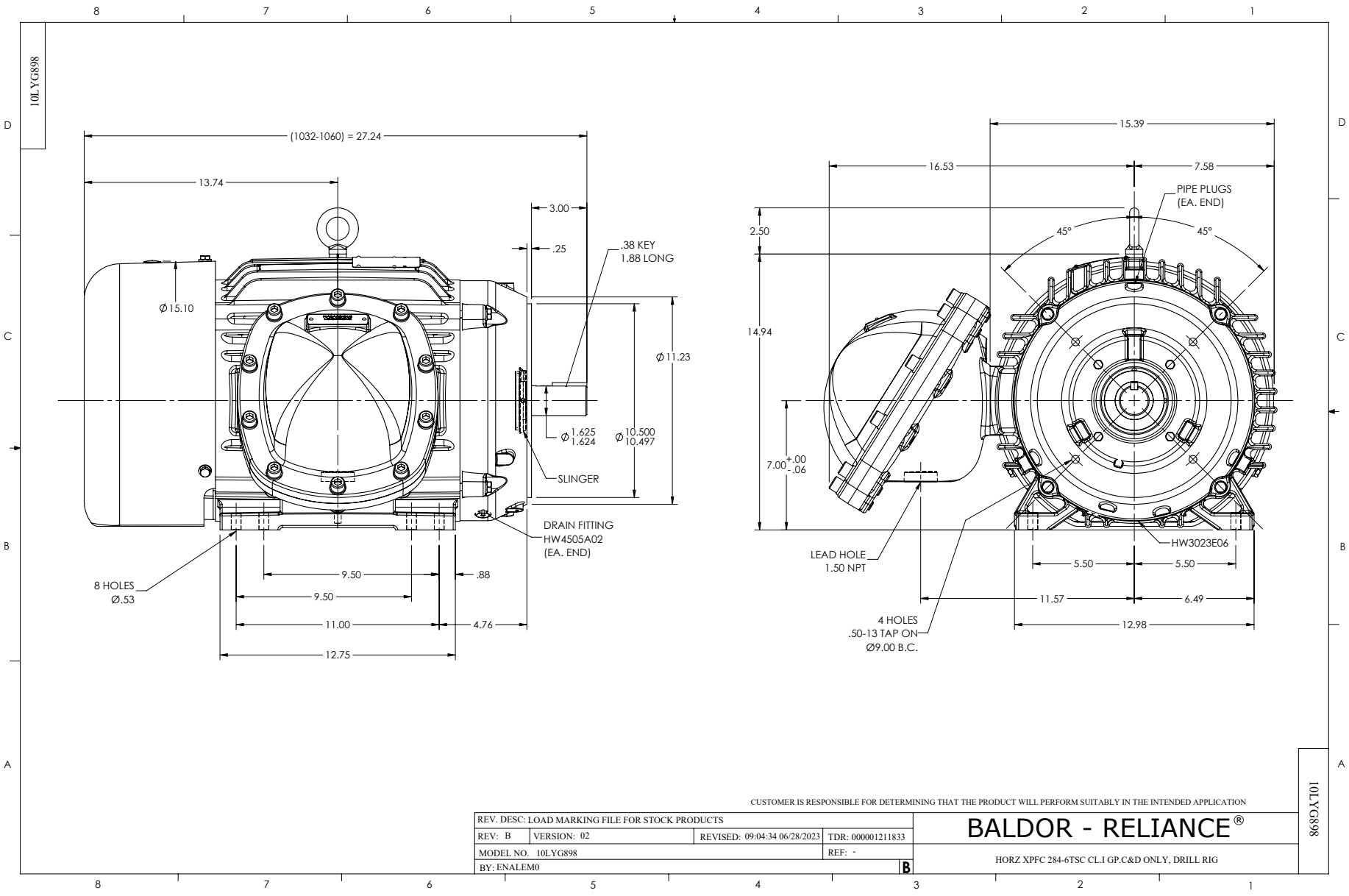
Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			66/33//68/34
R.P.M.			3520//2920
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	90
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	44.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	169 LB-FT
Pull-up Torque	60.8 LB-FT
Locked-rotor Torque	80 LB-FT
Starting Current	223 A
No-load Current	8.85 A
Line-line Res. @ 25ºC	0.239 Ω
Temp. Rise @ Rated Load	58°C
Locked-rotor Power Factor	23.5
Rotor inertia	1.97 LB-FT2

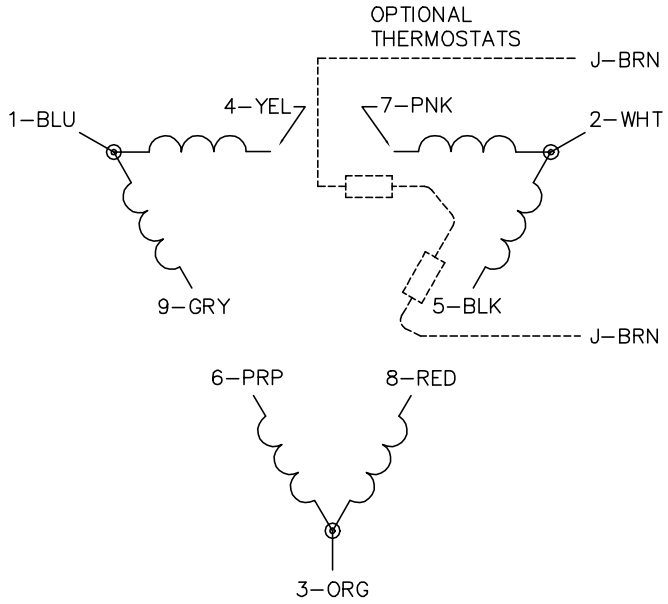
Load Characteristics 460 V, 60 Hz, 30 HP

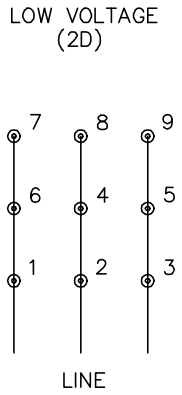
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	64	83	89	91	92	91
Efficiency	89.6	92.9	93.5	92.7	92.4	91.4
Speed	3580	3561	3544	3525	3504	3480
Line amperes	12	18.3	25.2	33	41.5	50.5

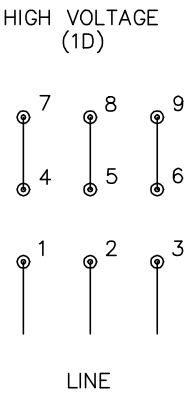

ABB Motors and Mechanical Inc.
WINDING # 10WGZ035
30 HP 3 PH 60 HZ 3525 RPM 460 V 1046M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=169 PU=60.8 LR=80 LRA=223
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/15/2026 ACPERF, record # 75697


10LYG898
(1032-1060) = 27.24
13.74
3.00
.25
.38 KEY
1.88 LONG
Ø15.10
Ø11.23
Ø1.625
1.624
Ø10.500
10.497
SLINGER
DRAIN FITTING
HW4505A02
(EA. END)
8 HOLES
Ø.53
9.50
9.50
.88
11.00
4.76
12.75
15.39
16.53
7.58
PIPE PLUGS
(EA. END)
45°
45°
2.50
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
HW3023E06
5.50
5.50
11.57
6.49
12.98
4 HOLES
.50-13 TAP ON
Ø9.00 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: B
VERSION: 02
REVISED: 09:04:34 06/28/2023
TDR: 000001211833
MODEL NO. 10LYG898
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TSC CL.I GP.C&D ONLY, DRILL RIG
10LYG898

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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