

ABB BALDOR RELIANCE III

Customer information packet

DRX28324T

30HP, 3520//2920RPM, 3PH, 60HZ, 286TS, XPFC, F

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	286TS
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	10LYH638
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	Standard
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.	10-0000-0837						INV.TYPE		PWM			
CAT.NO.	DRX28324T						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	286TS	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					380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		30//25		Full Load Torque		44.55 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		66/33//68/34		Breakdown Torque		164 LB-FT	
R.P.M.		3520//2920		Pull-up Torque		64.66 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		85.07 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		219 A
Service Factor (S.F.)		1		No-load Current		8.71 A	
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.239 Ω
Rating - Duty		40C AMB-CONT		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

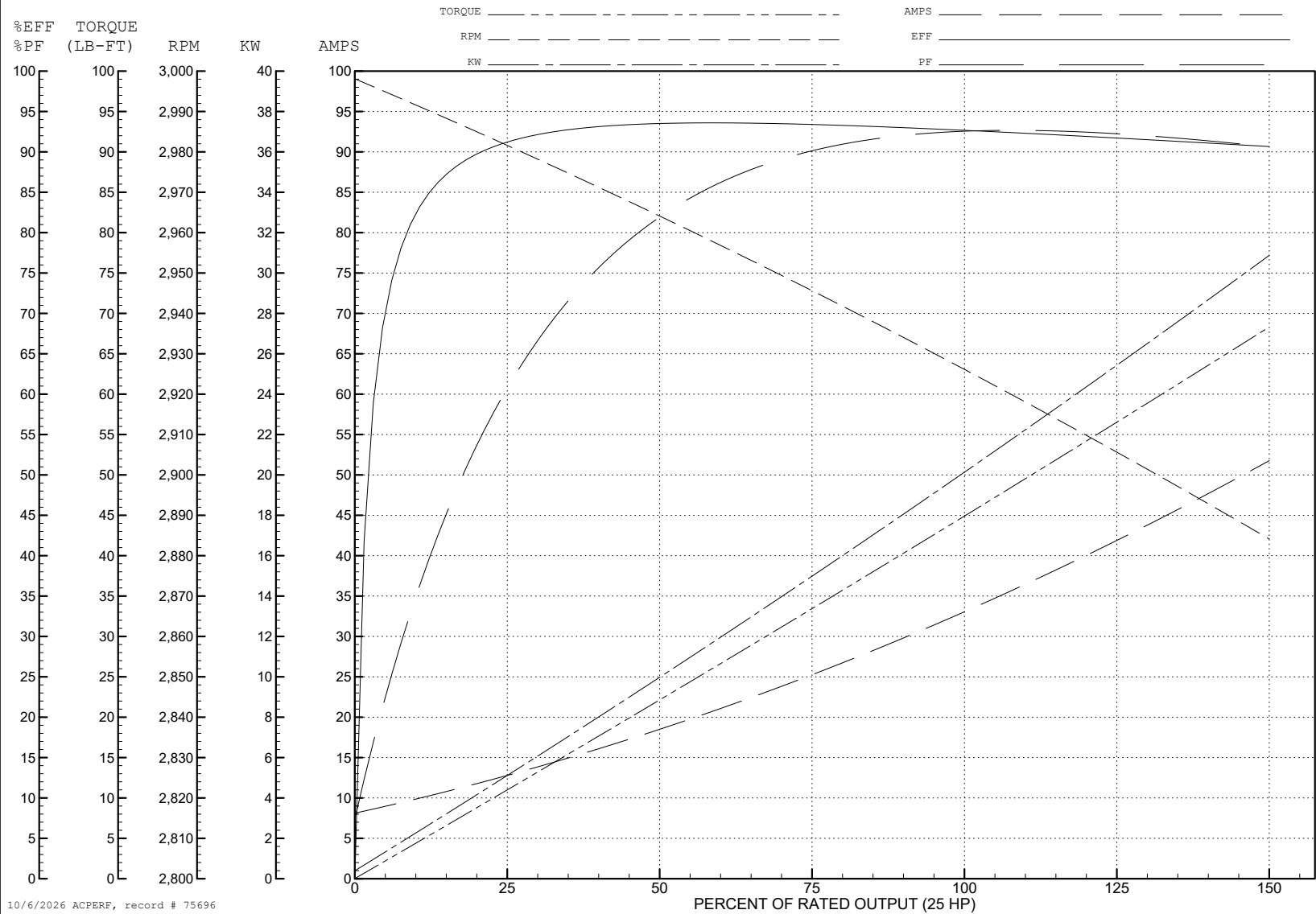
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WINDING # 10WGZ035

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



AC Induction Motor Performance Data

Record # 75697

Typical performance - not guaranteed values

Winding: 10WGZ035-R005			Type: 1046M		Enclosure: XPFC			
Nameplate Data					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		44.4 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		66/33//68/34		Breakdown Torque		169 LB-FT		
R.P.M.		3520//2920		Pull-up Torque		60.8 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		80 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		223 A
Service Factor (S.F.)		1		No-load Current		8.85 A		
NEMA Nom. Eff.		91.7	Power Factor		90	Line-line Res. @ 25°C		0.239 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		58°C
						Locked-rotor Power Factor		23.5
						Rotor inertia		1.97 LB-FT ²

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

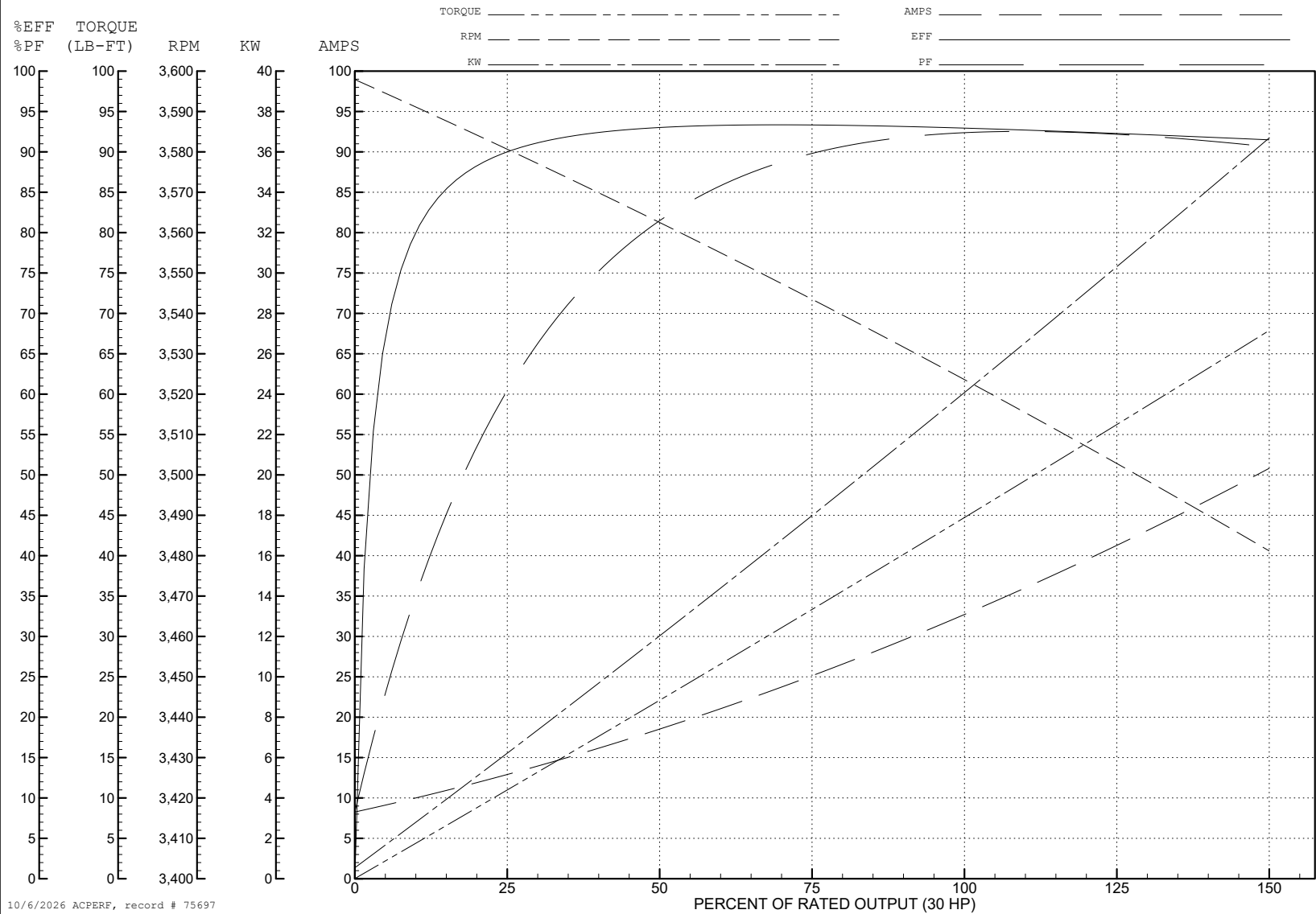
ABB Motors and Mechanical Inc.

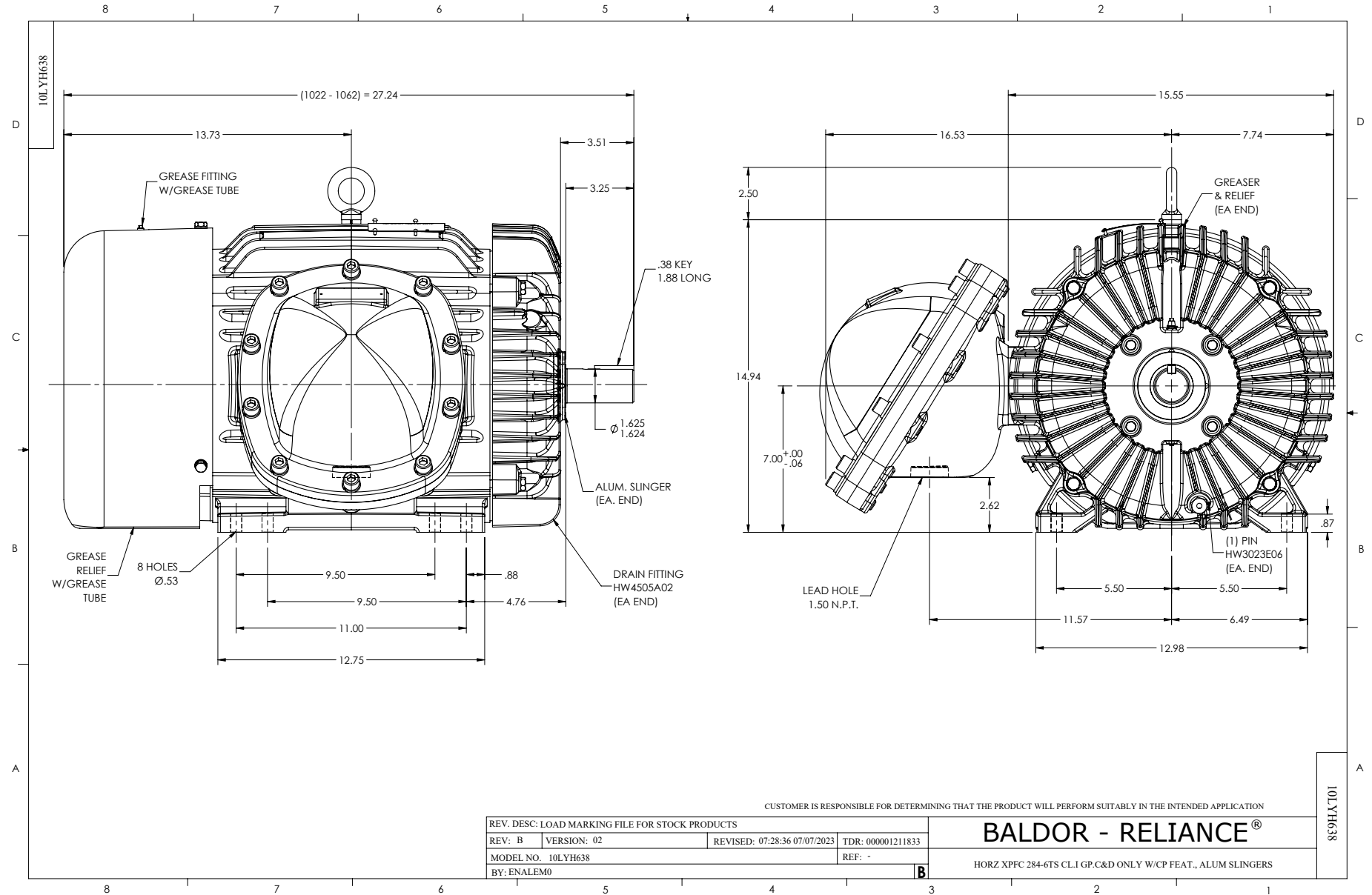
WINDING # 10WGZ035

Typical performance - not guaranteed values.

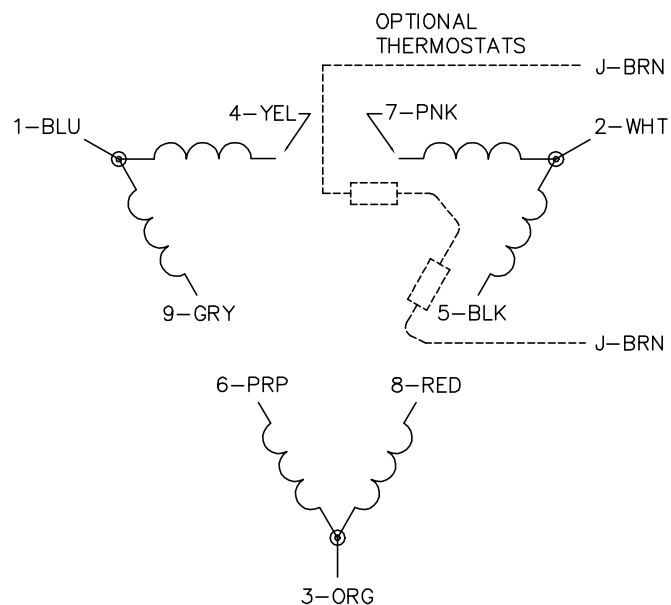
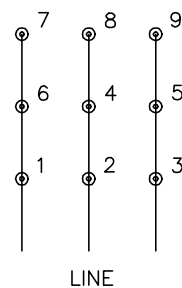
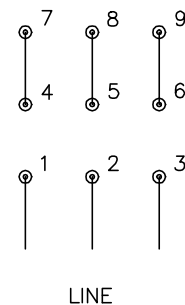
30 HP 3 PH 60 HZ 3525 RPM 460 V 1046M

TORQUES (LB-FT): PO=169 PU=60.8 LR=80 LRA=223





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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