

ABB BALDOR RELIANCE III

Customer information packet

XM282522T

25HP, 3520//2925RPM, 3PH, 60//50HZ, 284TS, XP

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TS
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ 20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	27.000 A @ 380.0 V 28.000 A @ 460.0 V 54.000 A @ 190.0 V 56.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ273
Layout	10LYE900
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	06-24-2020

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	27.0 a
Insulation Class	B
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.24 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

NP0887XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	10-0000-1577						INV.TYPE		PWM			
CAT.NO.	XM282522T						C HP FR		60	C HP TO		90
HP	25//20						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	56/28//54/27				MAG CUR		14/7					
RPM	3520//2925				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	2.07				
FRAME	284TS	RATING		40C AMB-CONT								
	1.15SF ON SINEWAVE											
	NEMA MG-1,PT.5,IP54											

AC Induction Motor Performance Data

Record # 66217

Typical performance - not guaranteed values

Winding: 10WGZ273-R010			Type: 1048M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		37.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		56/28	Breakdown Torque		103 LB-FT		
R.P.M.		3520	Pull-up Torque		42.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		54 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		171 A	
Service Factor (S.F.)		1	No-load Current		6.99 A		
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		0.29072 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C
					Locked-rotor Power Factor		23.3
					Rotor inertia		2.06 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	69	83	89	90	90	90
Efficiency	87.8	91.6	92.2	91.8	90.9	89.7
Speed	3580.1	3563.2	3542.7	3521.3	3497	3469.9
Line amperes	10.1	15.4	21.7	28.3	35.7	43.5

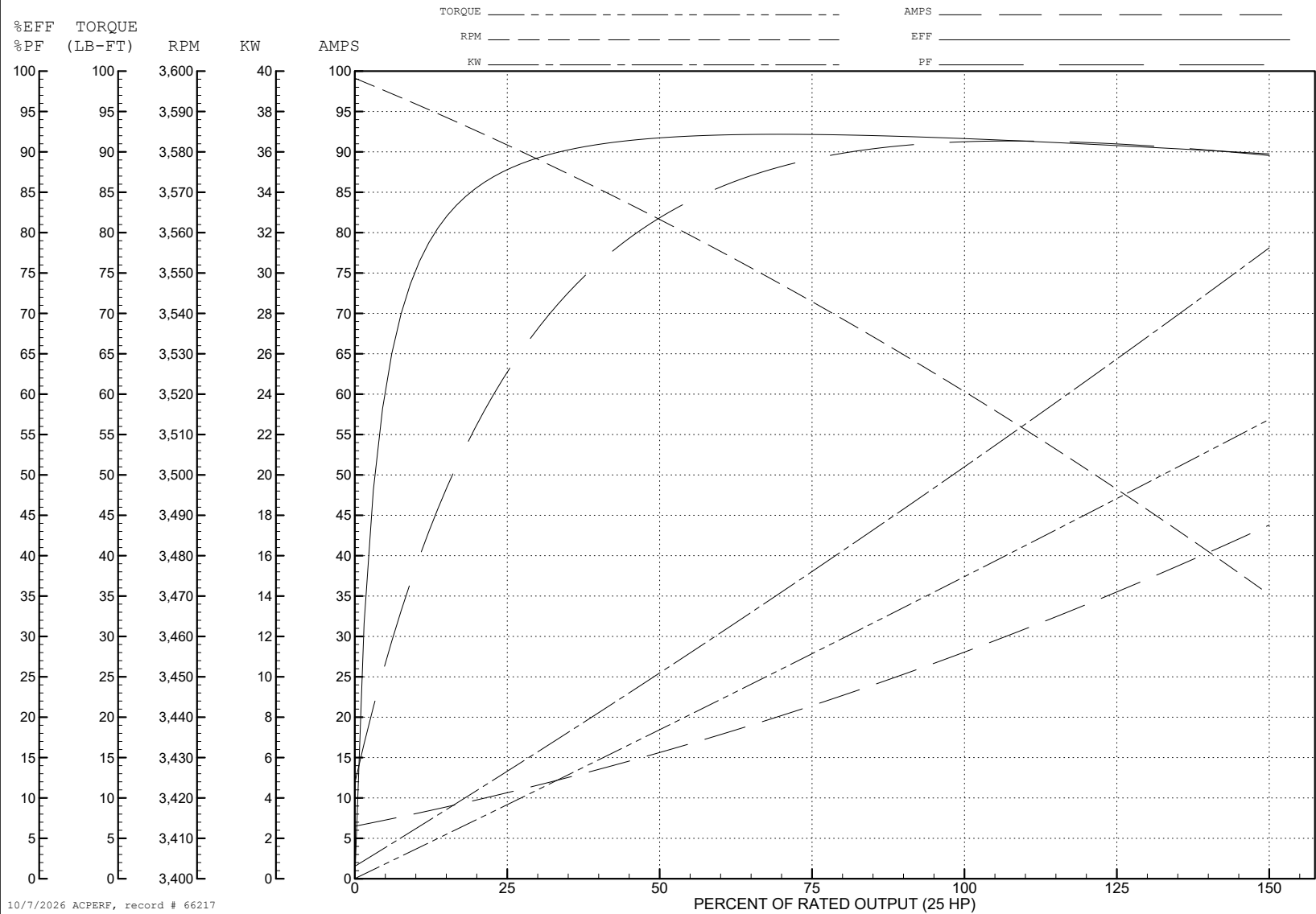
ABB Motors and Mechanical Inc.

WINDING # 10WGZ273

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

TORQUES (LB-FT): PO=103 PU=42.1 LR=54 LRA=171



AC Induction Motor Performance Data

Record # 75690

Typical performance - not guaranteed values

Winding: 10WGZ273-R006				Type: 1048M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		35.93 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		56/28//54/27		Breakdown Torque		100 LB-FT	
R.P.M.		3520//2955		Pull-up Torque		44.79 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		57.45 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		168 A
Service Factor (S.F.)		1		No-load Current		6.91 A	
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.295 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		26.3	
				Rotor inertia		2.06 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	67	82	88	90	90	90
Efficiency	88.7	92	92.2	91.5	90.4	89
Speed	2982	2966	2946	2926	2904	2878
Line amperes	9.81	14.92	21.05	27.48	34.66	42.37

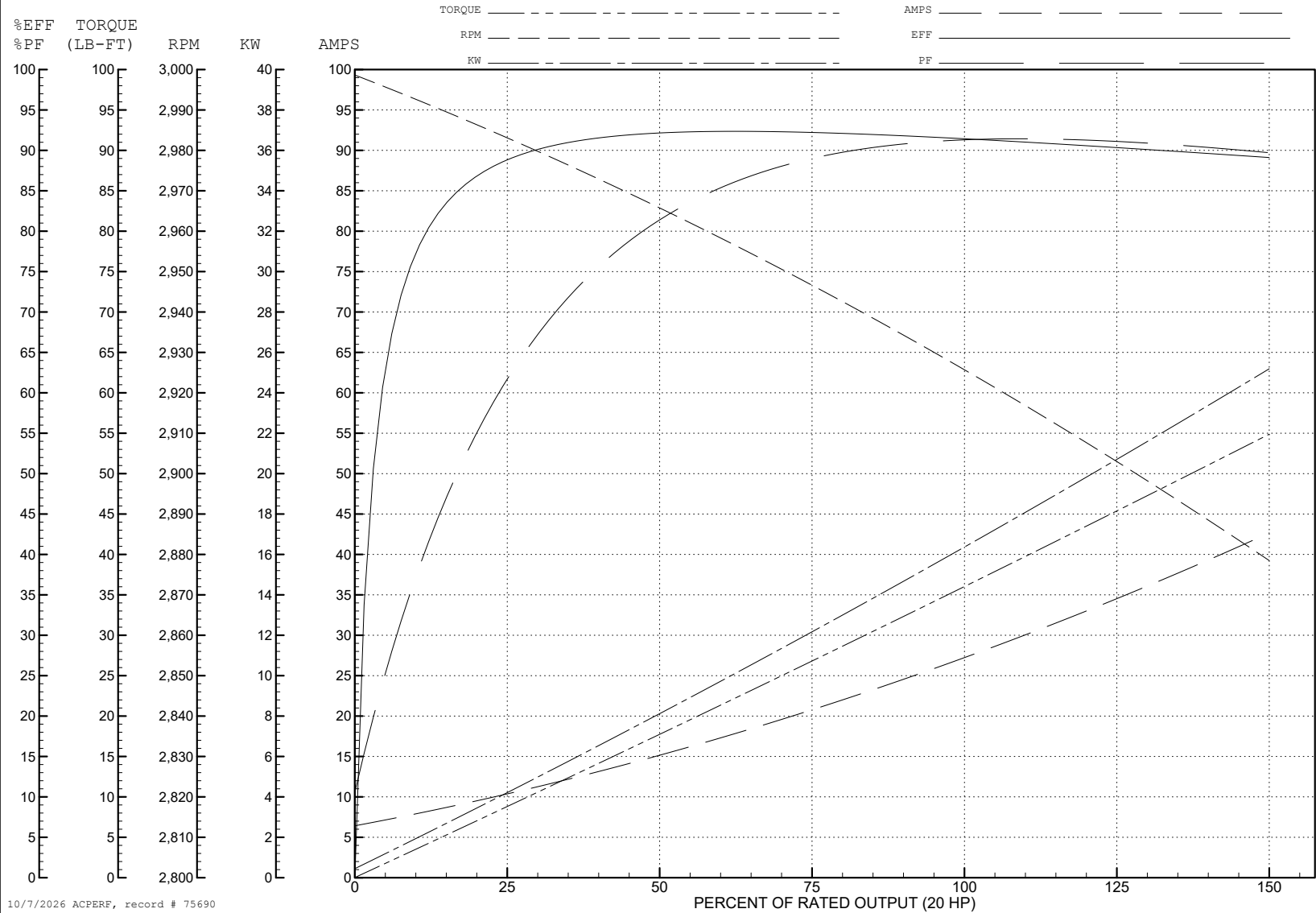
ABB Motors and Mechanical Inc.

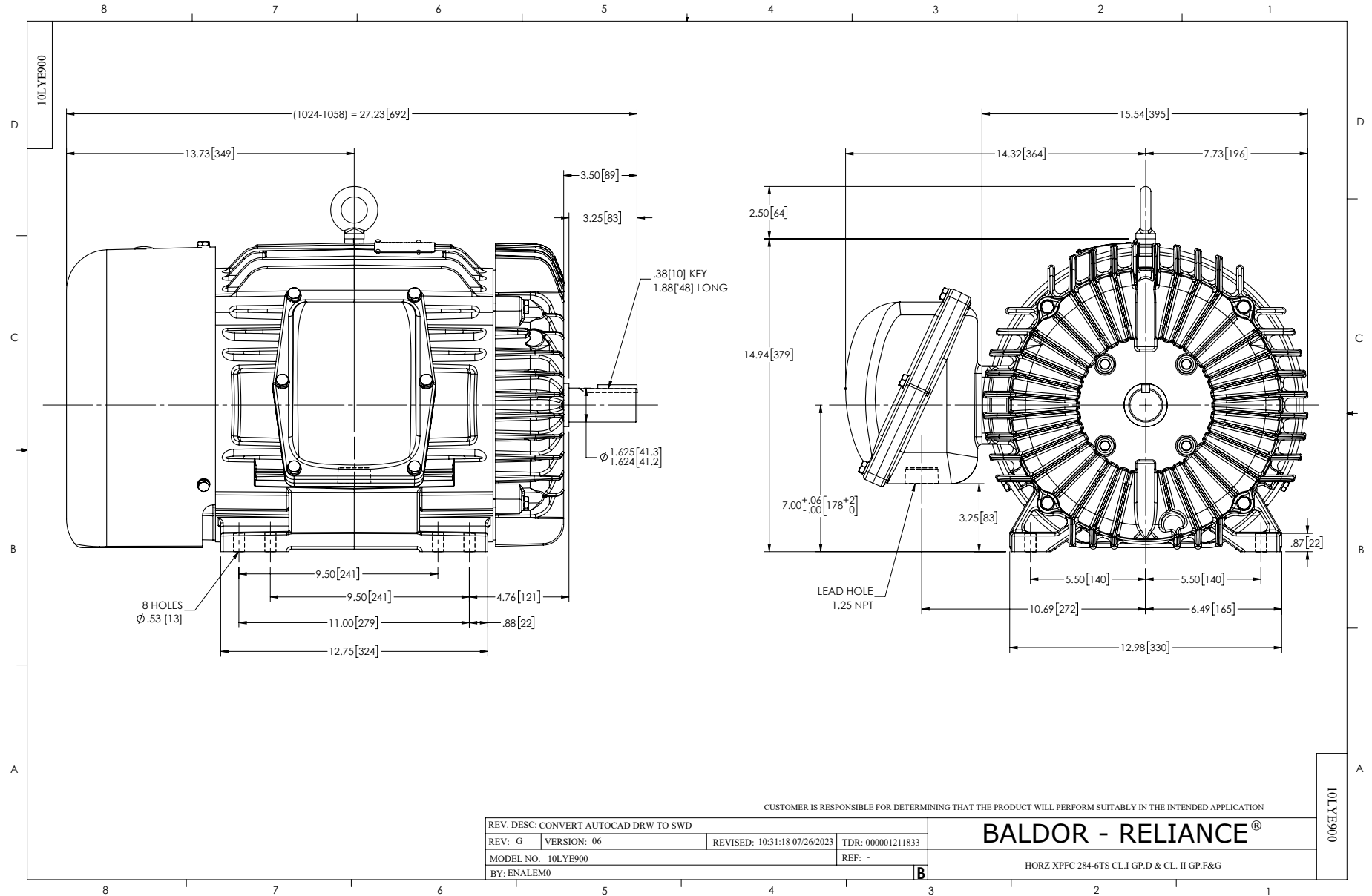
WINDING # 10WGZ273

Typical performance - not guaranteed values.

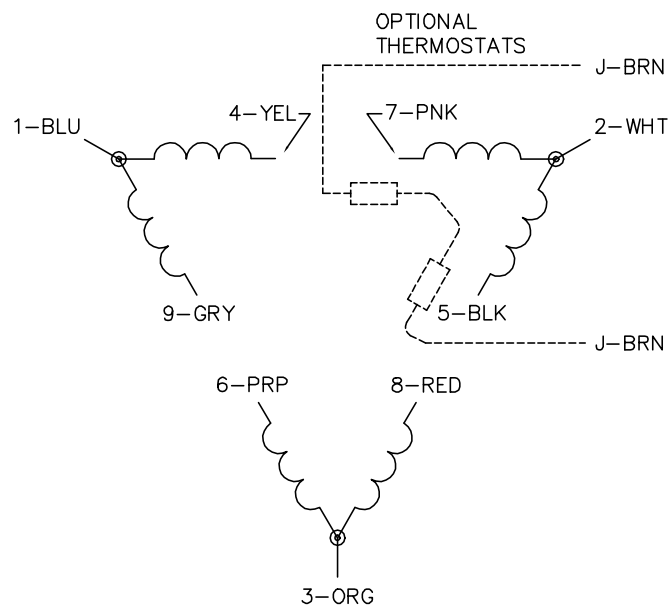
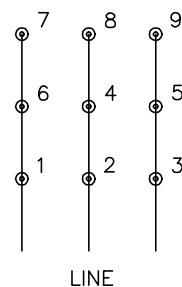
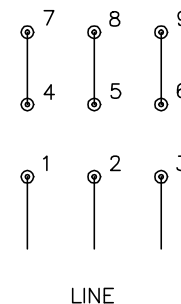
20 HP 3 PH 50 HZ 2926 RPM 380 V 1048M

TORQUES (LB-FT): PO=100 PU=44.79 LR=57.45 LRA=168





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.

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

SH 1 of 1

CD0180