

ABB BALDOR RELIANCE III

Customer information packet

CDRX282544T-5

25HP, 1775RPM, 3PH, 60HZ, 284TC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TC
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	25.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	25.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ693
Layout	10LYE949
Eff. date	11-05-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	07-19-2019

IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	81
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	1775 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.	10-0000-0939					INV.TYPE			PWM				
CAT.NO.	CDRX282544T-5					C HP FR		60	C HP TO		90		
HP	25					CT HZ FROM		6	CT HZ TO		60		
VOLTS	575					VT HZ FROM		6	VT HZ TO		60		
AMPS	25					MAG CUR		11.1					
RPM	1775					MX RPM		2700					
HZ	60	PH	3	CL	F	NOM.EFF.		93.6					
SER.F.	1.00	DES		A	SL HZ	0.83	WK2	4.13					
FRAME	284TC		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 # 77592

Typical performance - not guaranteed values

Winding: 10WGZ693-R001			Type: 1054M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		25	Full Load Torque		74.06 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		25	Breakdown Torque		264 LB-FT		
R.P.M.		1775	Pull-up Torque		119 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		143 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		180 A
Service Factor (S.F.)		1.15	No-load Current		11.06 A		
NEMA Nom. Eff.		93.6	Power Factor	81	Line-line Res. @ 25°C		0.361 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps				Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		30.6	
				Rotor inertia		4.31 LB-FT2	

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.7	93.8	94	93.7	93.4	93.8
Speed	1794	1789	1784	1778	1771	1764	1774
Line amperes	12.42	15.58	19.81	24.6	29.86	35.67	27.8

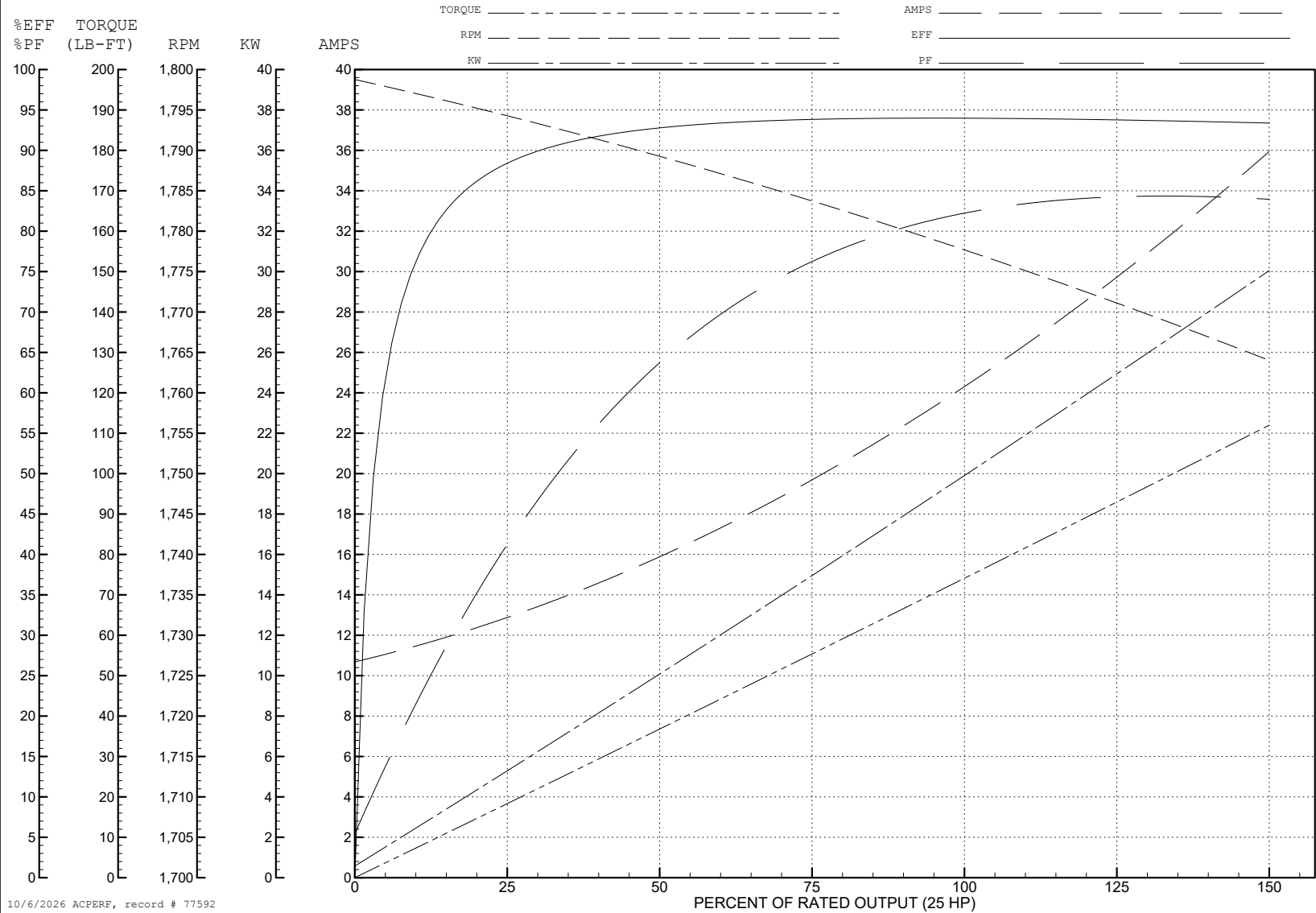
ABB Motors and Mechanical Inc.

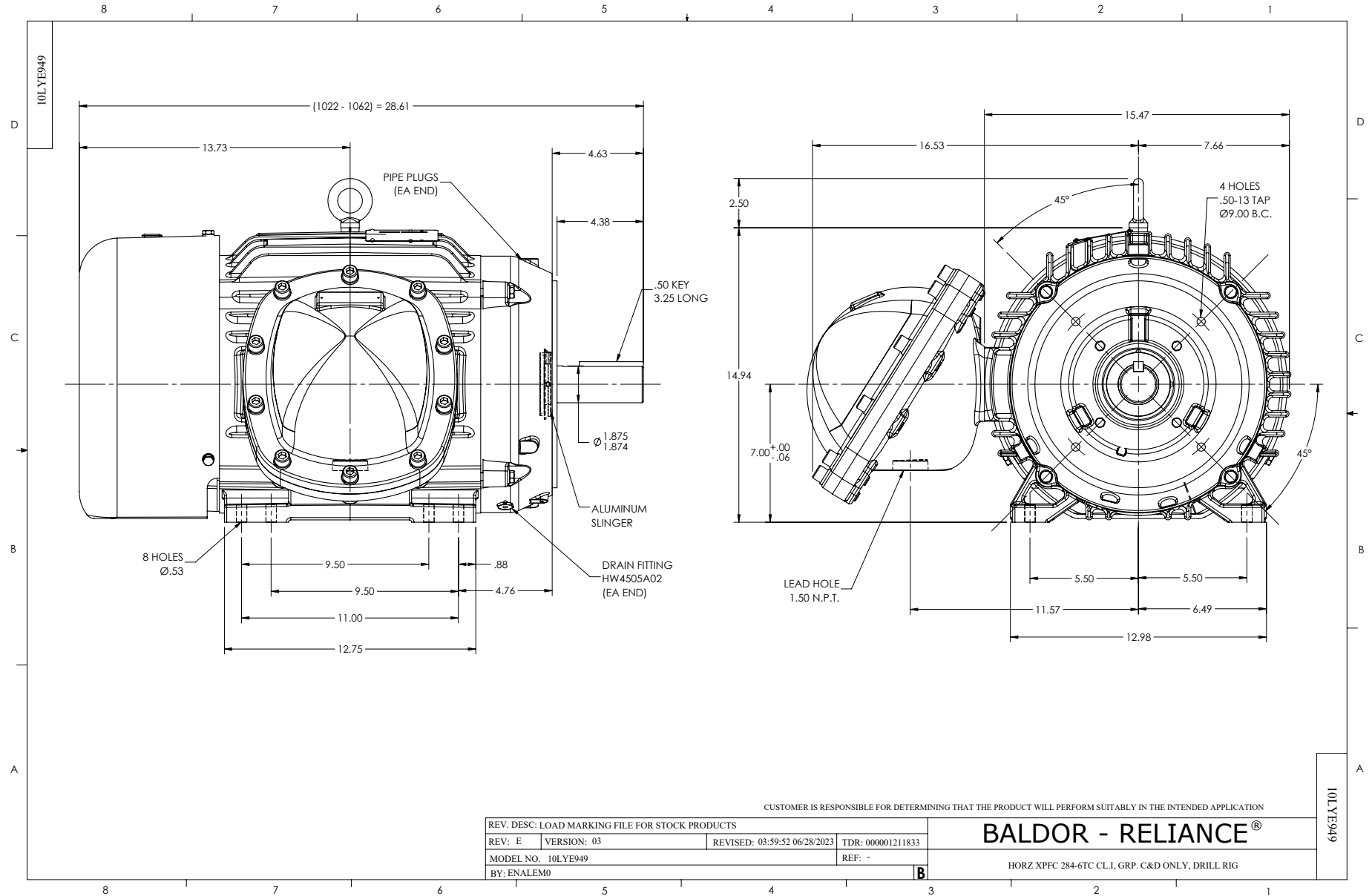
WINDING # 10WGZ693

Typical performance - not guaranteed values.

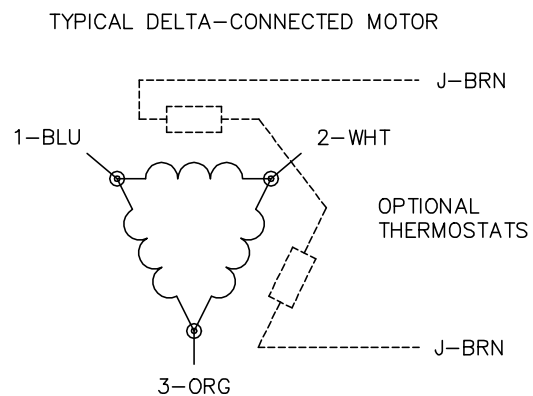
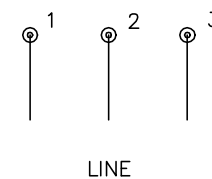
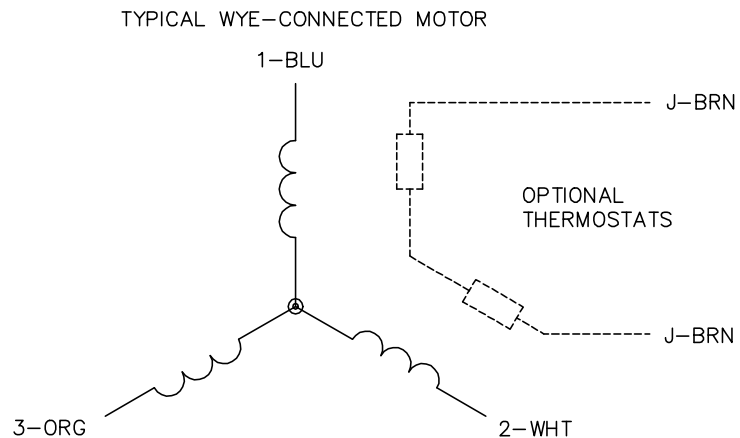
25 HP 3 PH 60 HZ 1775 RPM 575 V 1054M

TORQUES (LB-FT): PO=264 PU=119 LR=143 LRA=180





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

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