

ABB BALDOR RELIANCE III

Customer information packet

EWDM4108T

30HP, 3520RPM, 3PH, 60HZ, 286TS, TEFC, F1

Class - None

Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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
Current @ Voltage	68.000 A @ 230.0 V 34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT474
Layout	09LYK556
Eff. date	02-14-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	08-14-2019

High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.47 IN
Power Factor	89
Product Family	Washdown Features
Pulley Face Code	Standard
Rodent Screen	None
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1669L									
CAT.NO.	EWDM4108T								
SPEC.	09-0000-1725								
HP	30								
VOLTS	230/460 10:1 CT/VT								
AMP	68/34								
RPM	3520								
FRAME	286TS		HZ	60			PH	3	
SER.F.	1.00	CODE	J	DES	A	CLASS		F	
NEMA-NOM-EFF	91.7	PF	89						
RATING	40C AMB-CONT								
CC	010A								
DE	6311		ODE	6208					
ENCL	TEFC	SN							
BLANK	1.15SF ON SINEWAVE								

AC Induction Motor Performance Data

Record # 68643

Typical performance - not guaranteed values

Winding: 09WGT474-R005			Type: 0950M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30	Full Load Torque		44.65 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		68/34	Breakdown Torque		173 LB-FT	
R.P.M.		3520	Pull-up Torque		87.6 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		104 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		283 A	
Service Factor (S.F.)		1.15	No-load Current		10.9 A	
NEMA Nom. Eff.		91.7 Power Factor	Line-line Res. @ 25°C		0.2527 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		79°C	
S.F. Amps		78/39	Temp. Rise @ S.F. Load		97°C	
			Locked-rotor Power Factor		28	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	86	89	90	91	90
Efficiency	87.7	91.8	92.4	92.1	91.3	90.2	91.6
Speed	3580.7	3562.2	3542.3	3521	3497.7	3471	3507
Line amperes	13.7	19.4	26.4	34.2	42.4	51.3	39.1

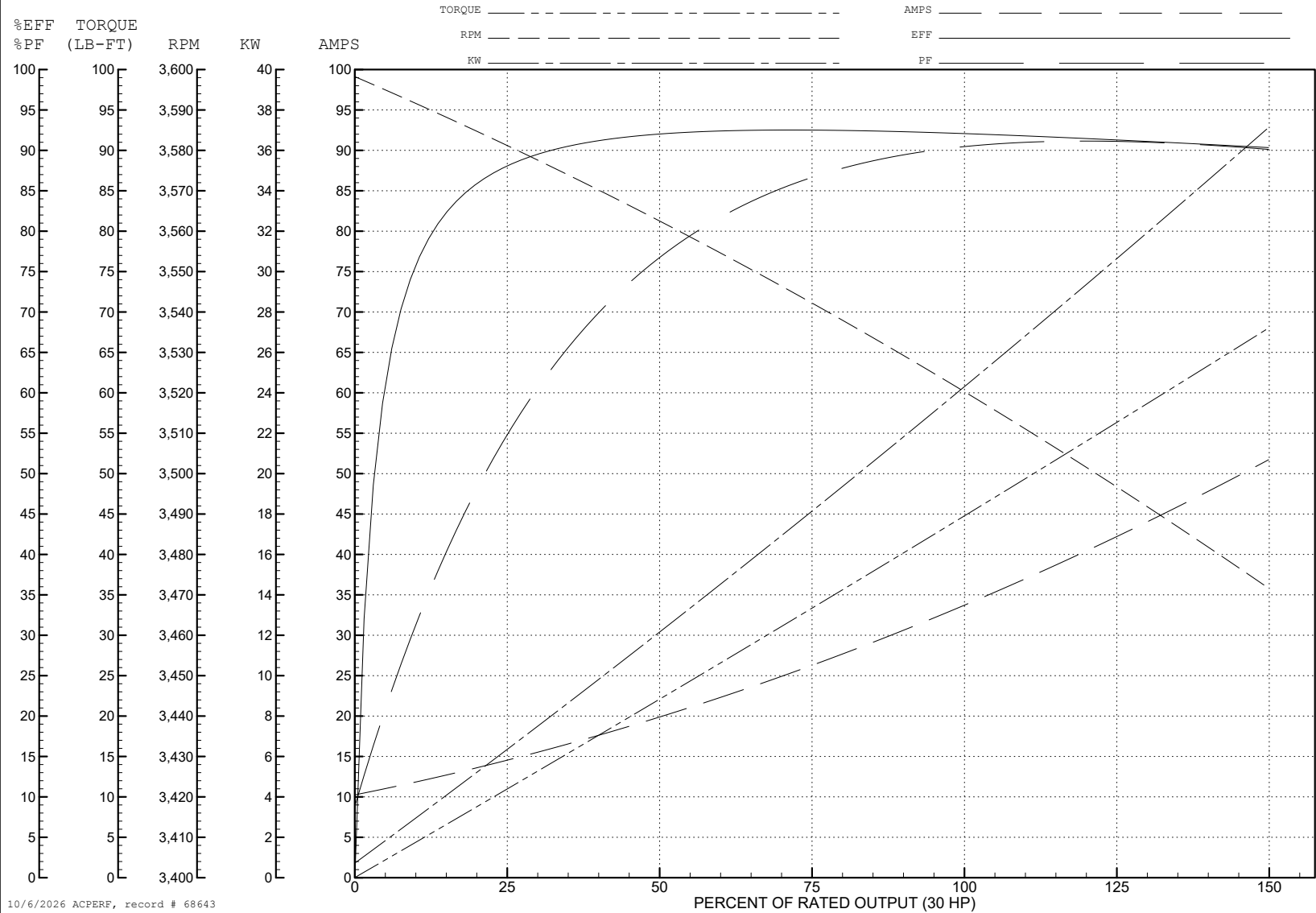
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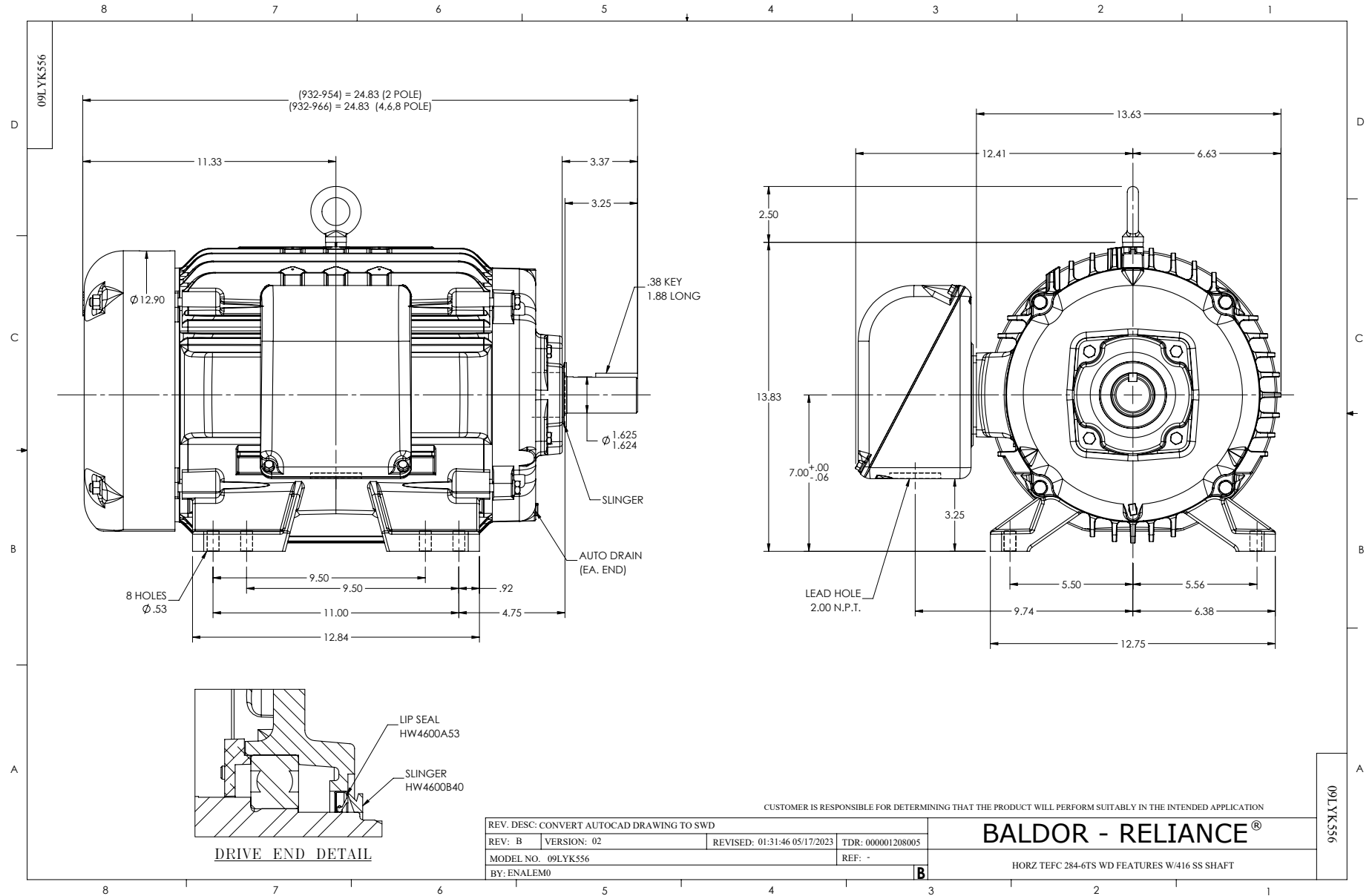
WINDING # 09WGT474

Typical performance - not guaranteed values.

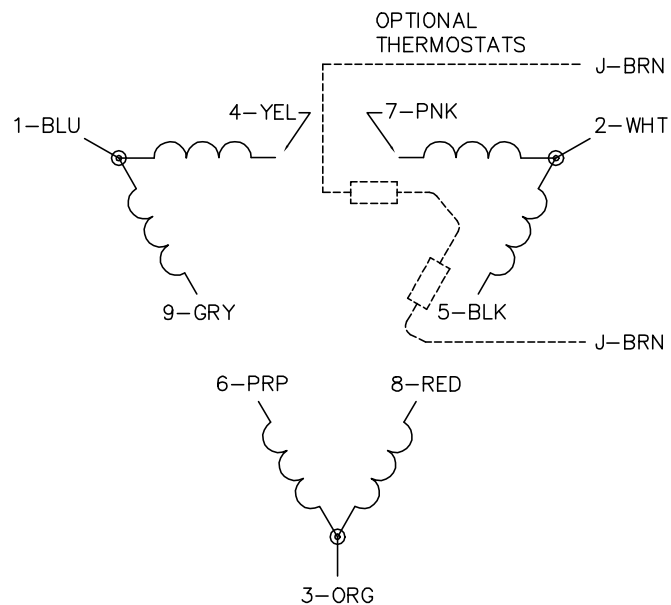
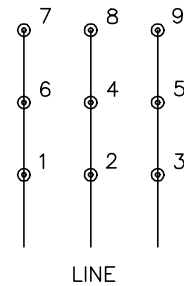
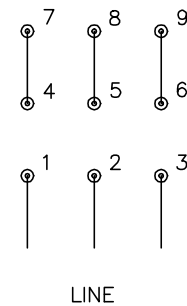
30 HP 3 PH 60 HZ 3520 RPM 460 V 0950M

TORQUES (LB-FT): PO=173 PU=87.6 LR=104 LRA=283





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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