ABB BALDOR RELIANCE

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**	J	**Starting Current**	283 A
Service Factor (S.F.)		1.15	**No-load Current**	10.9 A
NEMA Nom. Eff.	91.7 **Power Factor**	89	**Line-line Res. @ 25ºC**	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

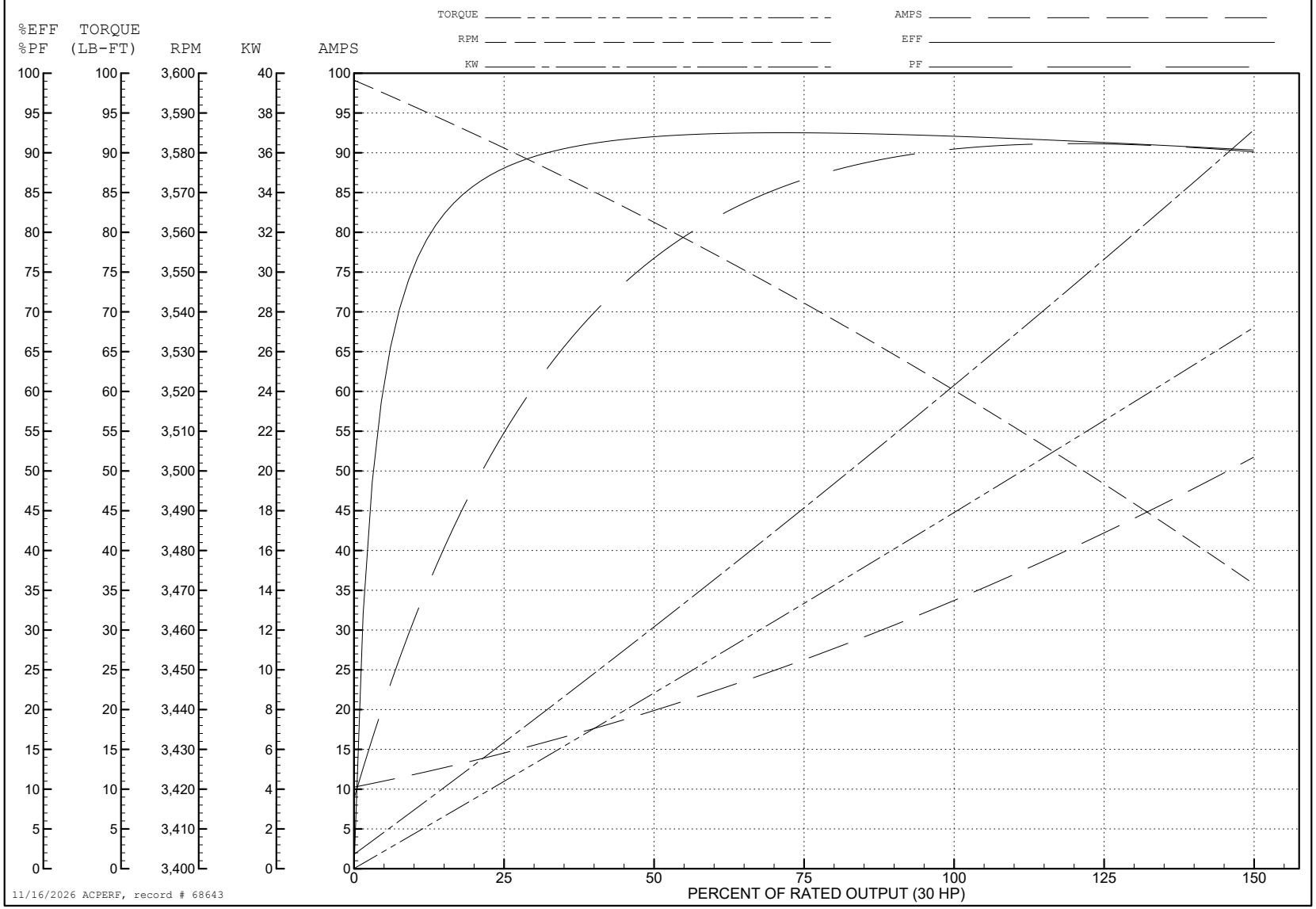
ABB Motors and Mechanical Inc.

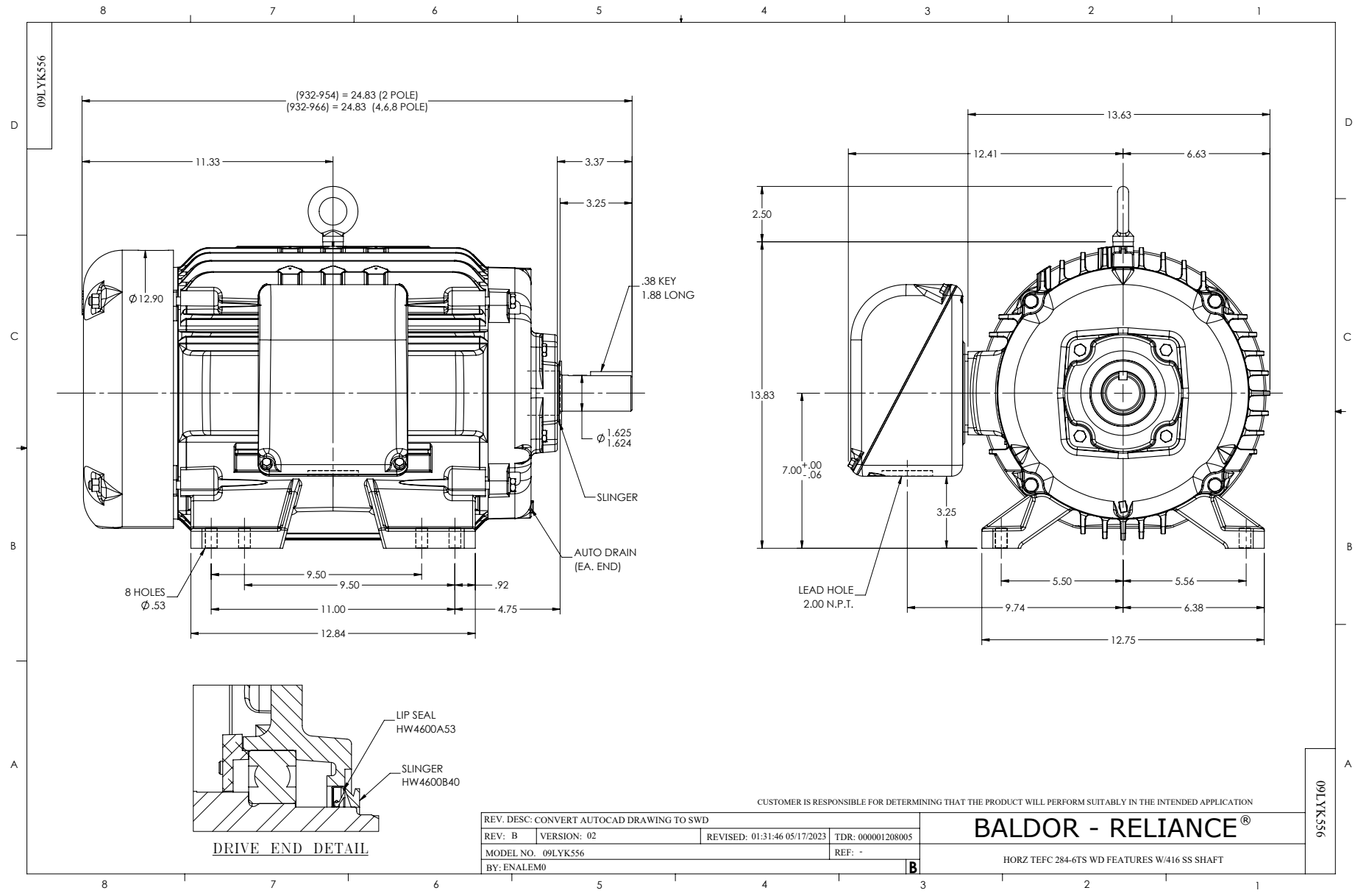
WINDING # 09WGT474

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

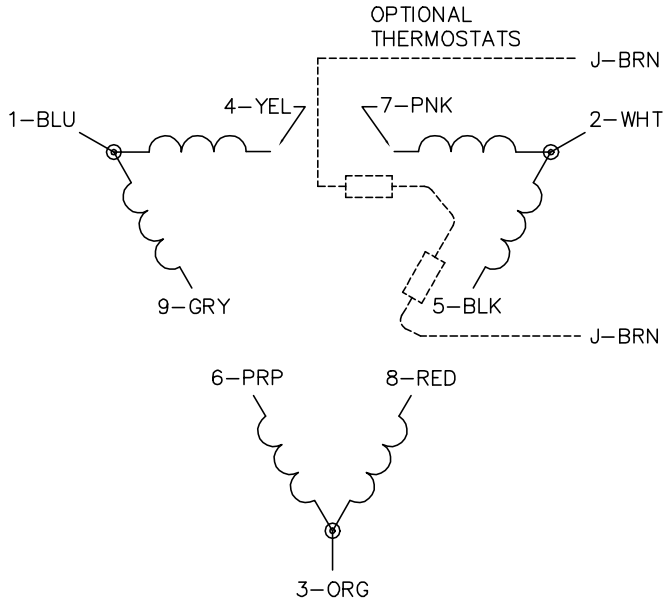
Typical performance - not guaranteed values.

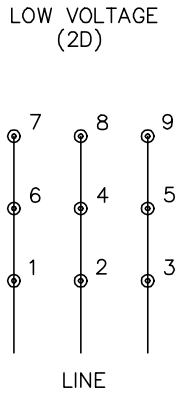
TORQUES(LB-FT): PO=173 PU=87.6 LR=104 LRA=283

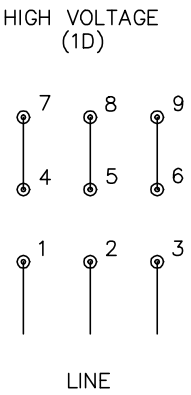



09LYK556
(932-954) = 24.83 (2 POLE)
(932-966) = 24.83 (4,6,8 POLE)
11.33
3.37
3.25
.38 KEY
1.88 LONG
Ø 12.90
Ø 1.625
1.624
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
13.63
12.41
6.63
2.50
13.83
7.00 +.00 -.06
3.25
LEAD HOLE
2.00 N.P.T.
5.50
5.56
9.74
6.38
12.75
LIP SEAL
HW4600A53
SLINGER
HW4600B40
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 01:31:46 05/17/2023
TDR: 000001208005
MODEL NO. 09LYK556
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 284-6TS WD FEATURES W/416 SS SHAFT
09LYK556

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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