

ABB BALDOR RELIANCE III

Customer information packet

EWDM4108T

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

Class - None

Division - Not Applicable

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								

Parts List

Part number	Description	Quantity
SA373150	SA 09-0000-1725	1.000 ea
RA362934	RA 09-0000-1725	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3201A01	1/2-13 EYEBOLT	1.000 ea
HW1002S63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
09FH4000WP	FAN COVER, STAMPED W/WHITE EPOXY, PRIMED	1.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
XY3816S12	3/8-16 HEX FINISHED NUT SS	4.000 ea
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
LD7020E09	LEAD SET, 10AWG, 9 LEAD, 20" LONG LEADS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
09EP1100A67WP	ENDPLATE, MACH	1.000 ea
HA3400S11	STUD 3/8-16 X 4.82 HEX SSWELKER	4.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
09EP1116A05P	PU ENDPLATE, MACH	1.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
10XN3816S28	3/8-16 X 1 3/4 HEX HD CAP SCREW, STAINLE	4.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
HW4600A53	SEAL 2.00 X 3.00 X 0.313 SINGLE LIP	1.000 ea
10XN3118S40	5/16-18X2 1/2 HEX HD SS	4.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10CB3000A05P	SPL CO BOX MACH. W/2" PIPE TAP, EPOXY PR	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea

10XN3118S12	5/16-18 X 3/4 HEX HEAD CAP, STAINLESS ST	4.000 ea
HW1001S31	WASHER, 5/16 SPLT LK, STAINLESS STEEL	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3500P	CONDUIT BOX LID, CAST - EPOXY PRIMED	1.000 ea
10GS1000A01	CONDUIT BOX LID GASKET NEOPRENE	1.000 ea
19XT2520S12	1/4-20X3/4 HWH NO SLOT TY.23 18-8 S.S.	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.070 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
HW2502G17	#303 SS,SQ KEY 3/8 X 1.875	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea

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. @ 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

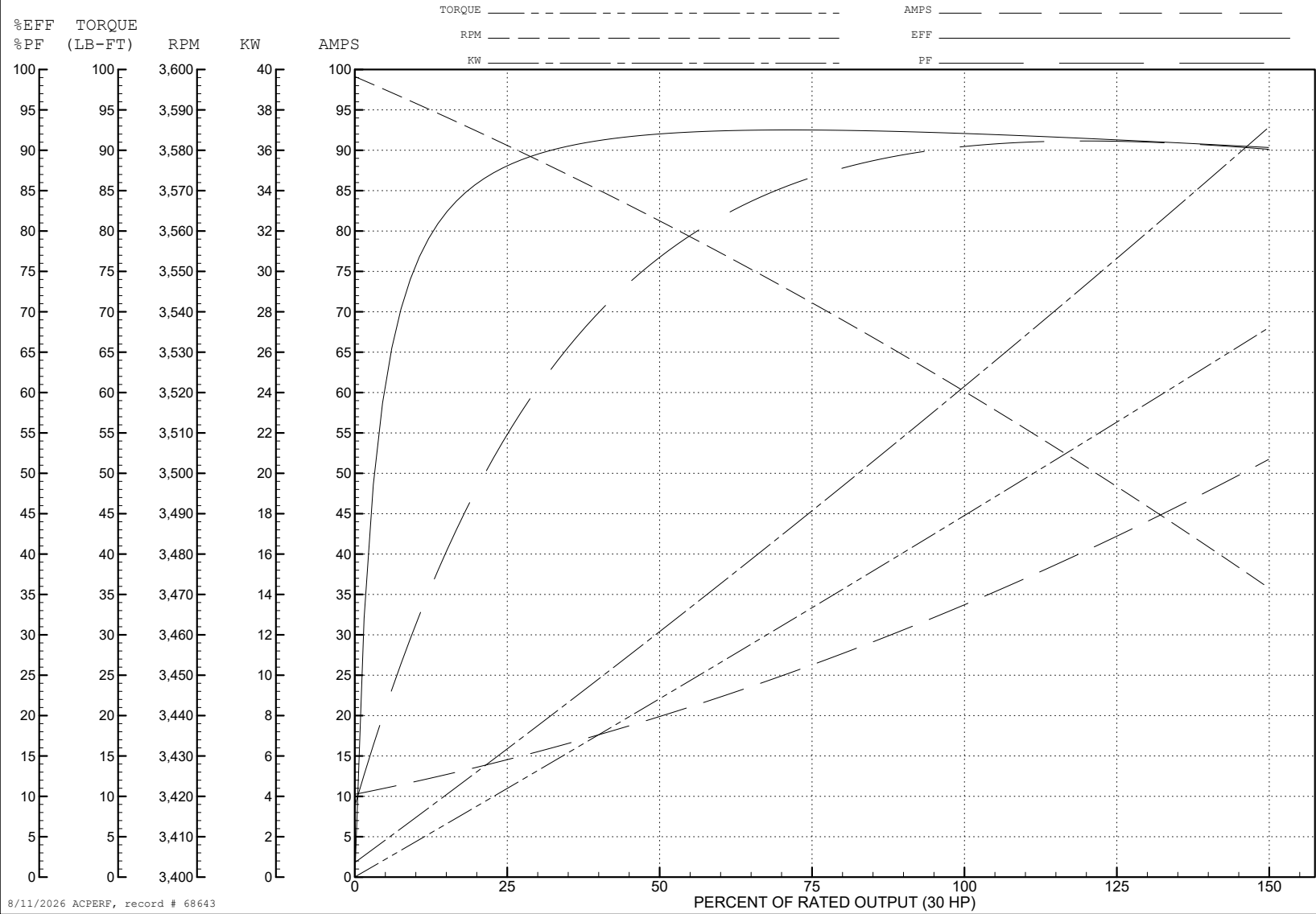
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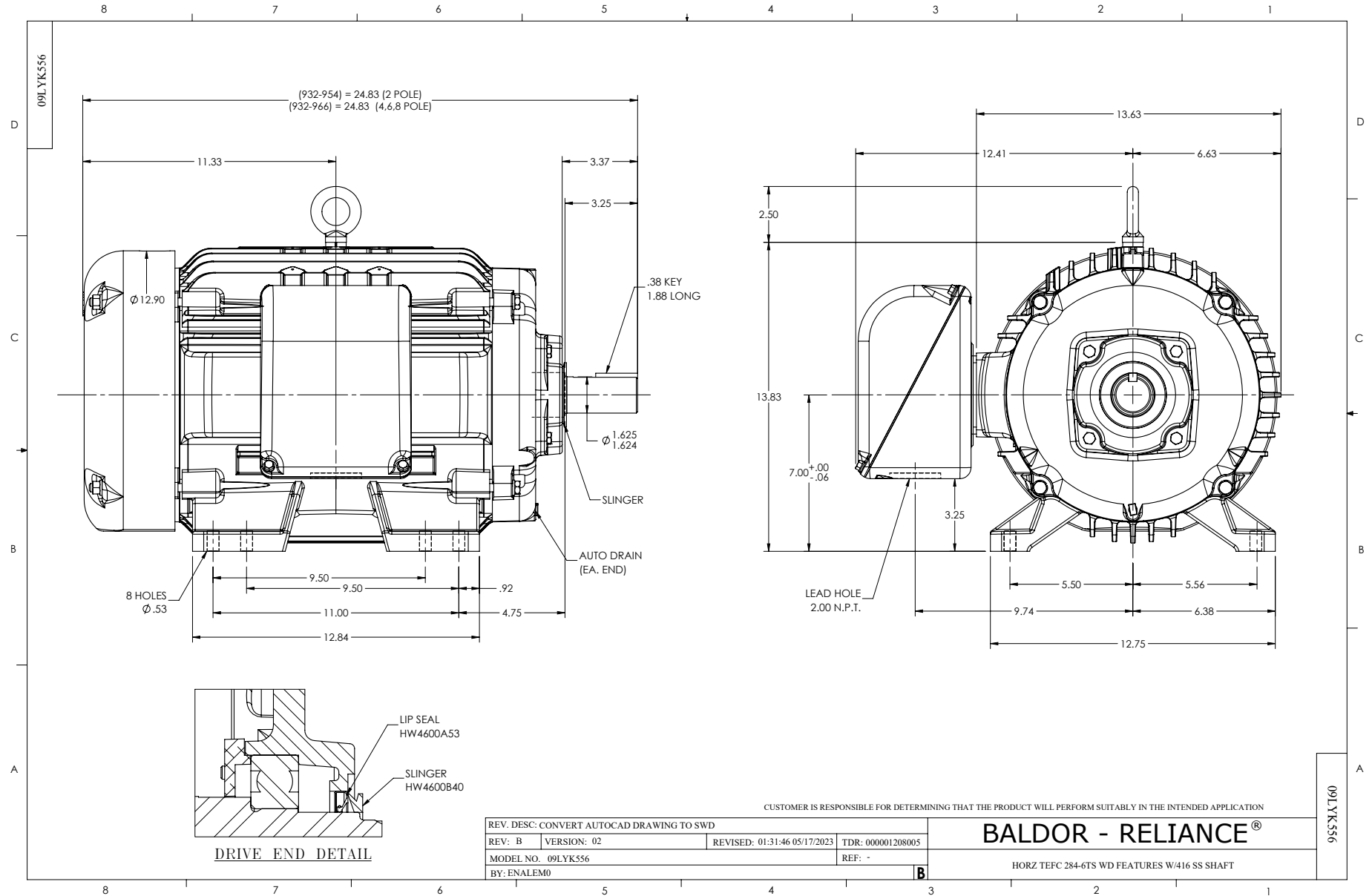
WINDING # 09WGT474

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.

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

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