

ABB BALDOR RELIANCE III

Customer information packet

HBAO4108T

30 AOHP, 3525RPM, 3PH, 60HZ, 286T, 1050M, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	286T
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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 74.000 A @ 208.0 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	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	09T114
Base	
Status	PRD/A
Elec. spec.	09WGT598
Layout	09LYT114
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	34.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.54 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3525 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

NP4312A05M01L

CAT #	HBAO4108T										SER #											CC			WGT	299	LBS								
SPEC	09T114T598G1										RATING	40C AMB-CONT																							
HZ	VOLTS					AMPS					RPM					HP					SF					NEMA NOM EFF									
60	230/460					68/34										3525					30AO					1.15					91.7				
PH	3	CL	H	CODE	J	DES	A	ENCL	TEAO					IP					54	PF	89	%	AIR OVER												
DE BRG		6311					ODE BRG					6208					FRAME					286T													
INV TYPE:				VPWM				SL HZ				1.25	CHP				60	TO				90	1.5:1												
WK2		1.28			LB FT2			MAX RPM			5400			CT		6	TO		60	10:1															
21.2/10.6								VT				3	TO		60	20:1																			
SFA 78.6/39.2																																			

YR:

AC Induction Motor Performance Data

Record # 92022

Typical performance - not guaranteed values

Winding: 09WGT598-R002			Type: 0950M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		44.7 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		68/34	Breakdown Torque		151 LB-FT		
R.P.M.		3525	Pull-up Torque		78.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		94.5 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		278 A
Service Factor (S.F.)		1.15	No-load Current		10.6 A		
NEMA Nom. Eff.		91.7	Power Factor	89	Line-line Res. @ 25°C		0.254 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		80°C
S.F. Amps		78.6/39.2	Temp. Rise @ S.F. Load		99°C		
			Locked-rotor Power Factor		28.4		
			Rotor inertia		1.28 lb-ft²		

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	79	86	89	91	91	90
Efficiency	86.5	91.1	91.8	91.7	91	89.9	91.3
Speed	3583	3565	3546	3526	3505	3481	3513
Line amperes	13.6	19.4	26.5	34.3	42.6	51.5	39.3

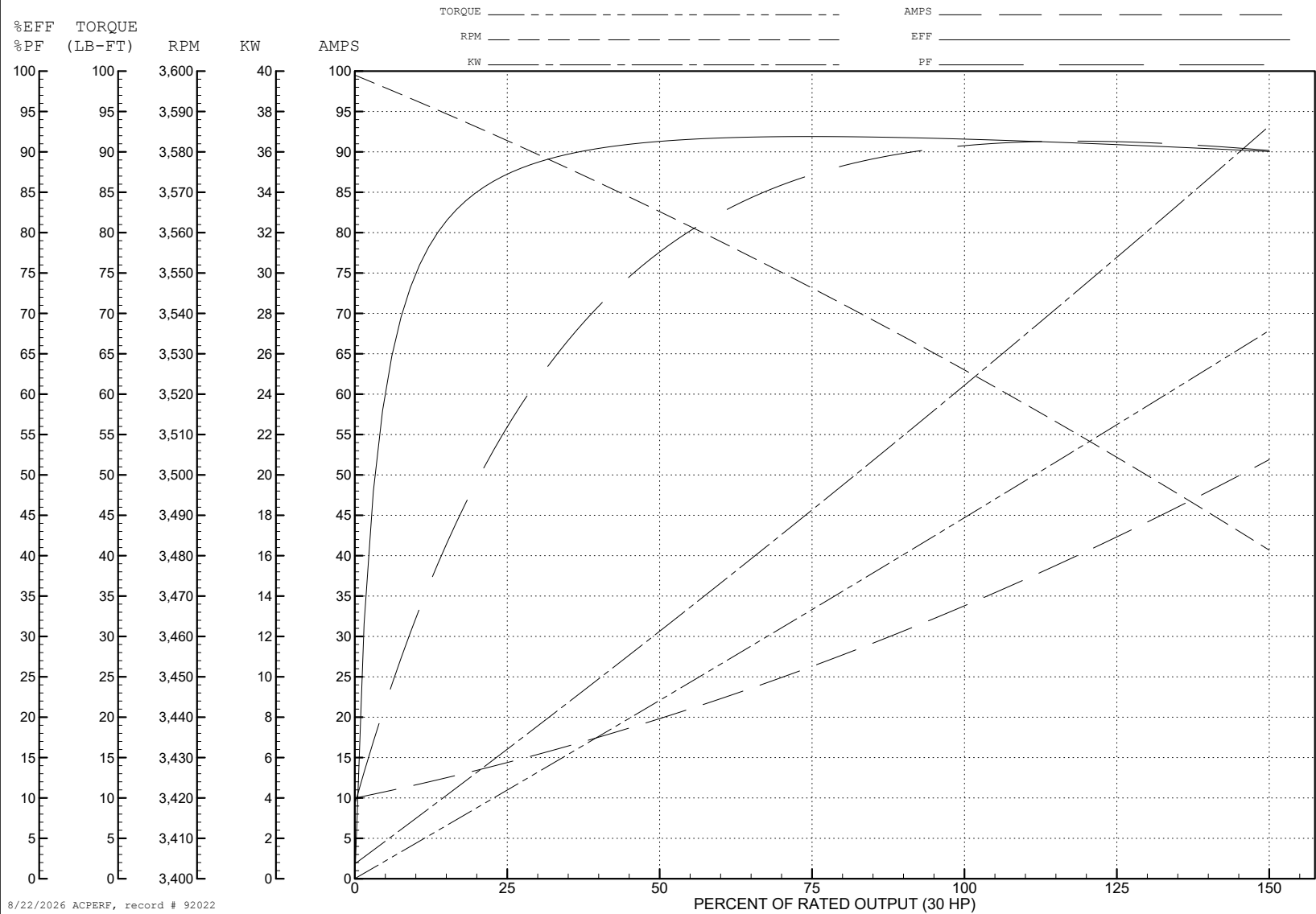
ABB Motors and Mechanical Inc.

WINDING # 09WGT598

Typical performance - not guaranteed values.

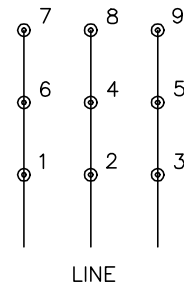
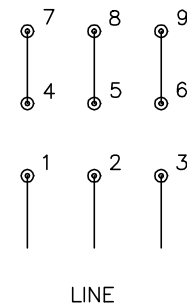
30 HP 3 PH 60 HZ 3525 RPM 460 V 0950M

TORQUES (LB-FT): PO=151 PU=78.5 LR=94.5 LRA=278





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

SH 1 of 1