

ABB BALDOR RELIANCE III

Customer information packet

EM2546T

60HP, 3540RPM, 3PH, 60HZ, 326TS, 4250M, OPSB, F

Specifications

Enclosure	OPSB
Frame	326TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 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	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	136.000 A @ 230.0 V 68.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a
Insulation Class	F

Part Detail

Revision	AD
Type	AC
Mech. spec.	42F58
Base	
Status	PRD/A
Elec. spec.	42WGW410
Layout	42LYF058
Eff. date	11-06-2025
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	10-15-2010

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.19 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3540 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

NP3554LUA										
CAT.NO.	EM2546T			P/N					ENCL	OPSB
SPEC.	42F058W410G1	CC	010A	FRAME		326TS	SER.NO.			
HP	60		CLASS		F	HZ	60			
RPM	3540		PH	3	DES		B			
VOLTS	230/460			CODE		G	ODE BRG	6311	DE BRG	6312
AMPS	136/68									
RATING	40C AMB-CONT		NEMA-NOM-EFF			93.6	GREASE	POLYREX EM		
PF	89	SER.F.	1.15	CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 60HP 190/380V 160/80A			SF 1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.								

Accessories

Part number	Description	Multiplier
42-1300	C FACE KIT	A8
42EP1601A01	SP'L D-FLANGE MTD. PU. E.P. MDL.42 W/BFL	P1

AC Induction Motor Performance Data

Record # 33331

Typical performance - not guaranteed values

Winding: 42WGW410-R001			Type: 4250M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		60	Full Load Torque		88.9 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		136/68	Breakdown Torque		304 LB-FT	
R.P.M.		3540	Pull-up Torque		91.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		128 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		17.7 A	
NEMA Nom. Eff.		93.6	Power Factor		89	Line-line Res. @ 25°C
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps			Temp. Rise @ S.F. Load		43°C	

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	88	90	90	89	90
Efficiency	90.7	93.7	94.2	93.9	93.3	92.5	93.5
Speed	3585.3	3574.5	3562.4	3549.9	3535.7	3520.5	3541
Line amperes	24.4	36.9	51.5	66.9	83.7	102	77

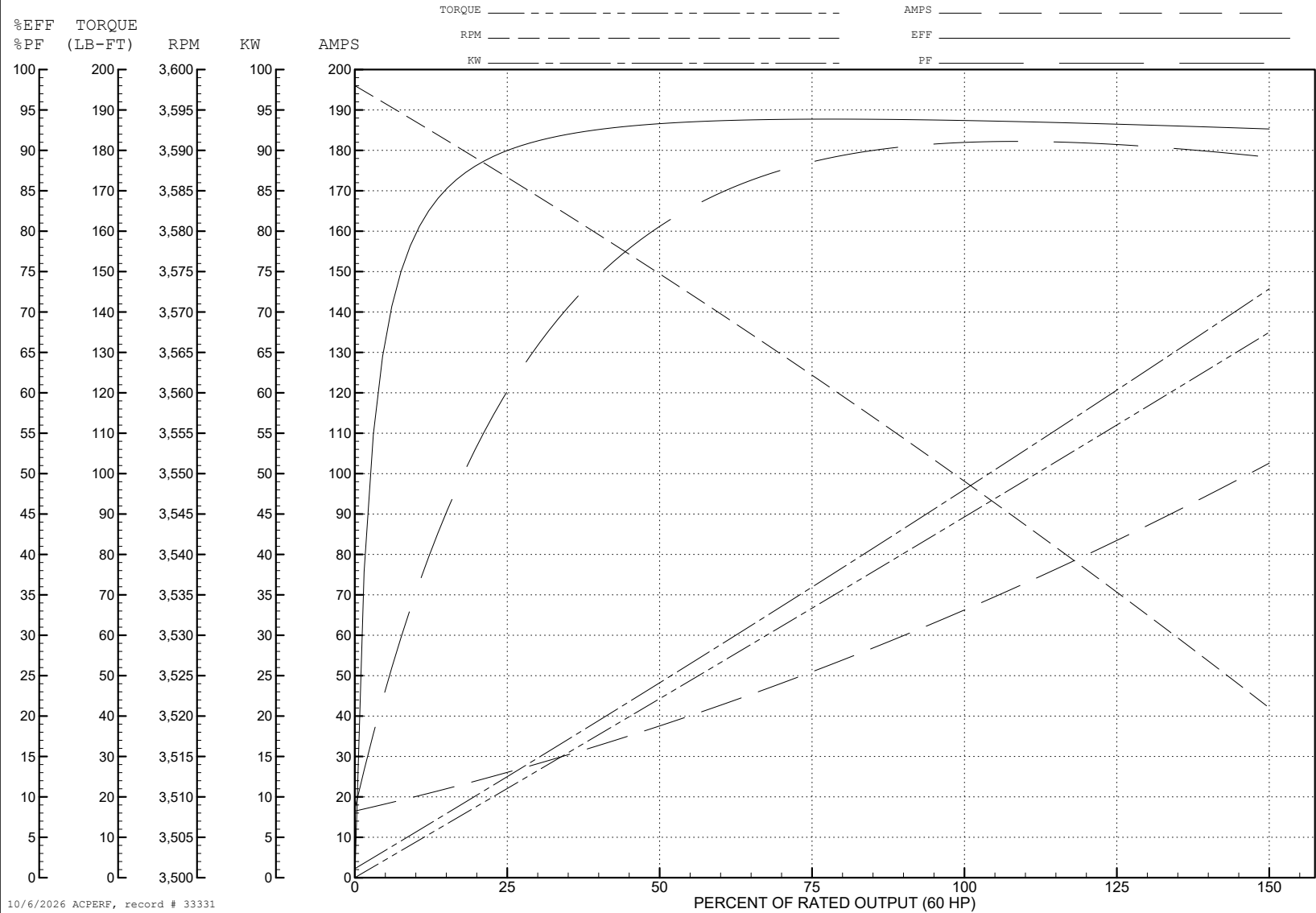
ABB Motors and Mechanical Inc.

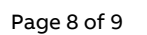
WINDING # 42WG410

Typical performance - not guaranteed values.

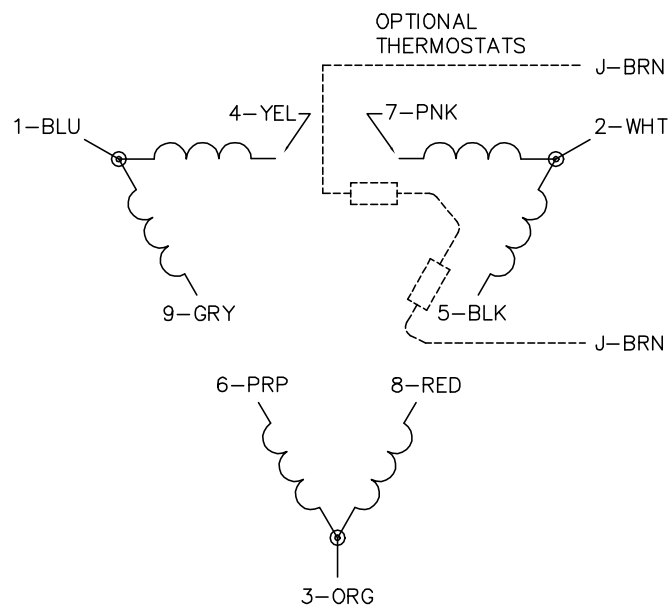
60 HP 3 PH 60 HZ 3540 RPM 460 V 4250M

TORQUES (LB-FT): PO=304 PU=91.4 LR=128 LRA=443

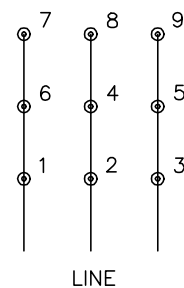




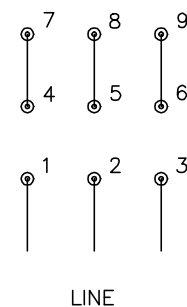
CD0180



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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