

ABB BALDOR RELIANCE III

Customer information packet EM2532T

25HP, 1180RPM, 3PH, 60HZ, 324T, 4072M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	324T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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 70.000 A @ 208.0 V 34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	34.0 a

Part Detail

Revision	W
Type	AC
Mech. spec.	40E212
Base	
Status	PRD/A
Elec. spec.	40WGX192
Layout	40LYE212
Eff. date	11-29-2023
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	10-14-2010

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4072M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.69 IN
Power Factor	76
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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

NP2138LUA													
CAT.NO.	EM2532T				P/N					ENCLOSURE		OPSB	
SPEC.	40E212X192			CC	010A	FRAME		324T		S/N			
HP	25				CLASS		F	HZ		60			
RPM	1180				PH	3	DES		A				
VOLT	230/460				KVA-CODE			J	ODE BRG		6309	DE BRG	6312
AMP	68/34												
RATING	40C AMB-CONT				GREASE			POLYREX EM					
NEMA-NOM-EFF	93	PF	76	SER.F.	1.15								
	50Hz 25Hp 190/380V 78/39A							SF 1.0					
HTR-VOLTS	HTR-AMPS												

AC Induction Motor Performance Data

Record # 53040

Typical performance - not guaranteed values

Winding: 40WGX192-R004			Type: 4072M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25	Full Load Torque		111 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		68/34	Breakdown Torque		410 LB-FT	
R.P.M.		1180	Pull-up Torque		205 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		217 LB-FT	
NEMA Design Code		A	Starting Current		236 A	
Service Factor (S.F.)		1.15	No-load Current		16.7 A	
NEMA Nom. Eff.		93	Power Factor		76	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.29283 Ω	
S.F. Amps			Temp. Rise @ Rated Load		40°C	
			Temp. Rise @ S.F. Load		48°C	
			Locked-rotor Power Factor		31	
			Rotor inertia		8.82 LB-FT2	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	69	76	79	80	78
Efficiency	88	92.3	93.2	93.2	92.7	92	92.9
Speed	1195.9	1192.3	1188.4	1184.9	1180.9	1176.1	1182
Line amperes	18.5	22.3	27.4	33.5	40.3	47.8	37.6

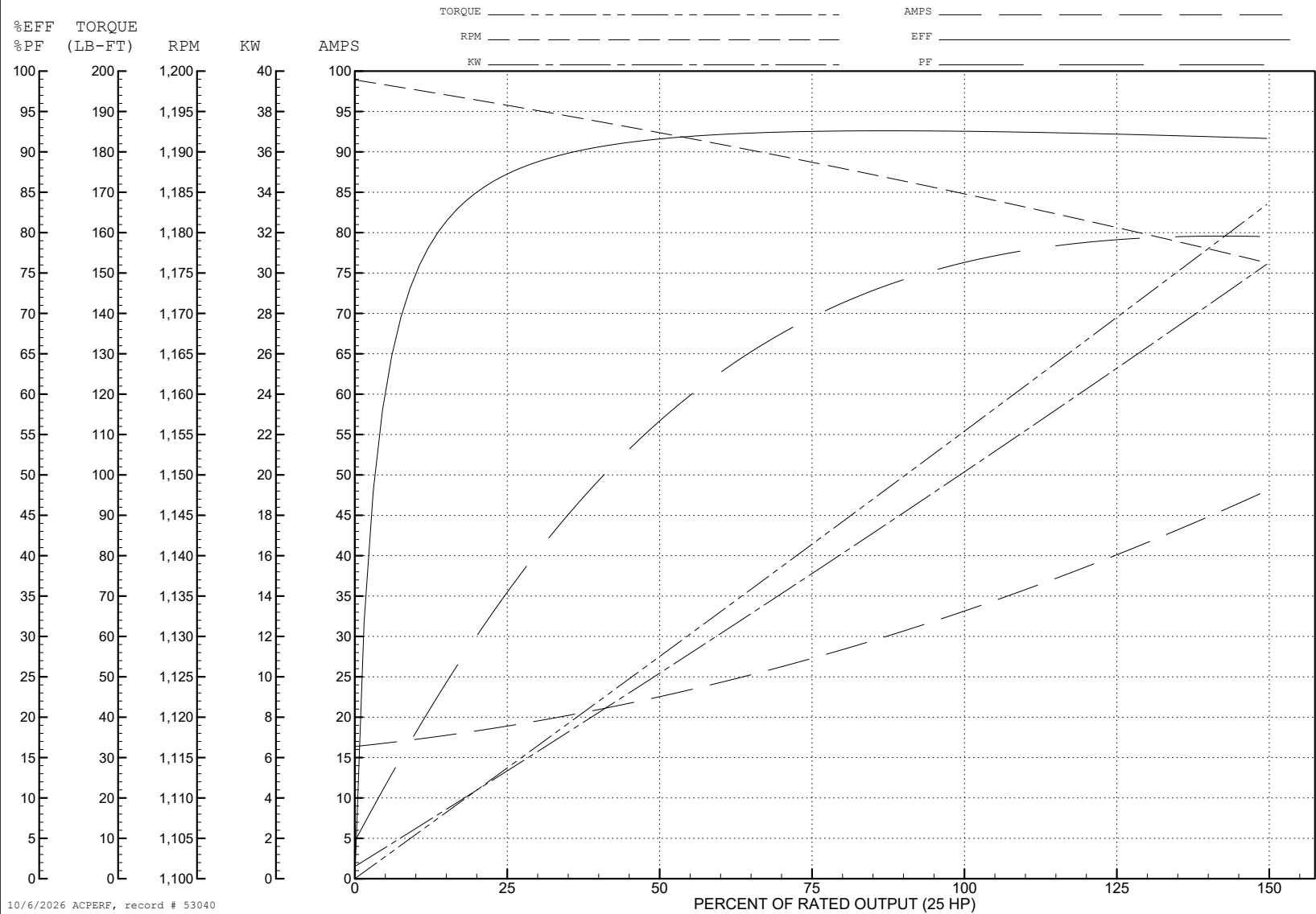
ABB Motors and Mechanical Inc.

WINDING # 40WGX192

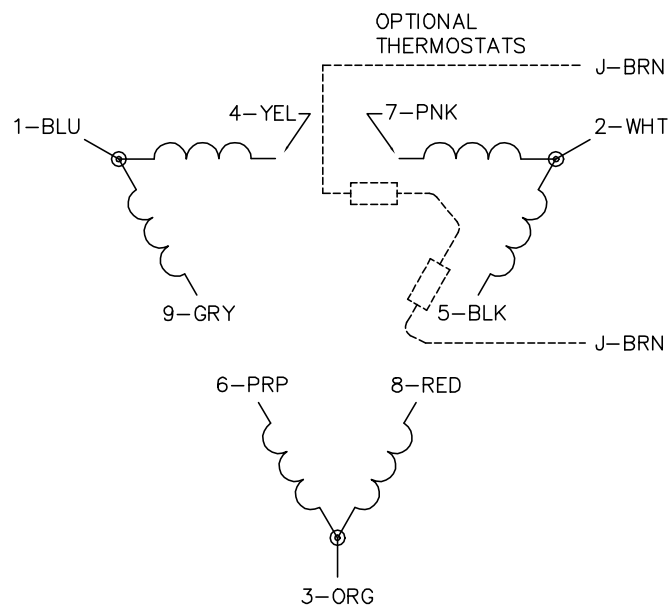
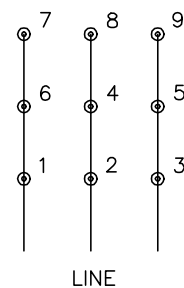
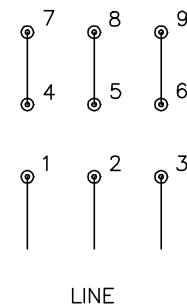
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1180 RPM 460 V 4072M

TORQUES (LB-FT): PO=410 PU=205 LR=217 LRA=236



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

CD0180