

ABB BALDOR RELIANCE III

Customer information packet

EM2534T

30HP, 3530RPM, 3PH, 60HZ, 284TS, 4040M, OPSB, F

Specifications

Enclosure	OPSB
Frame	284TS
Frame Material	Steel
Frequency	60.00 Hz
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	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	70.000 A @ 230.0 V 76.000 A @ 208.0 V 35.000 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
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a

Part Detail

Revision	U
Type	AC
Mech. spec.	40G51
Base	
Status	PRD/A
Elec. spec.	40WGX193
Layout	40LYG051
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	10-15-2010

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4040M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.44 IN
Power Factor	87
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3530 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.	EM2534T			P/N						ENCL	OPSB
SPEC.	40G051X193	CC	010A	FRAME		284TS	SER.NO.				
HP	30		CLASS		F	HZ	60				
RPM	3530		PH	3	DES		A				
VOLTS	230/460			CODE		H	ODE BRG	6309	DE BRG	6311	
AMPS	70/35										
RATING	40C AMB-CONT		NEMA-NOM-EFF			91.7	GREASE	POLYREX EM			
PF	87	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 30HP 190/380V 84/42A				SF 1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 53041

Typical performance - not guaranteed values

Winding: 40WGX193-R006			Type: 4040M		Enclosure: OPSB		
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		70/35	Breakdown Torque		175 LB-FT		
R.P.M.		3530	Pull-up Torque		59.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		78.3 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		240 A
Service Factor (S.F.)		1.15	No-load Current		11.2 A		
NEMA Nom. Eff.		91.7	Power Factor	0	Line-line Res. @ 25°C		0.21802 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		23°C
S.F. Amps					Temp. Rise @ S.F. Load		28°C
					Locked-rotor Power Factor		24
					Rotor inertia		1.72 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	77	84	87	88	89	88
Efficiency	89.3	92.8	93.4	93.2	92.6	91.8	92.8
Speed	3582.7	3568.7	3554.6	3538.7	3522.3	3504.1	3529
Line amperes	14.4	20.3	27.2	35.1	43.4	52.1	40.1

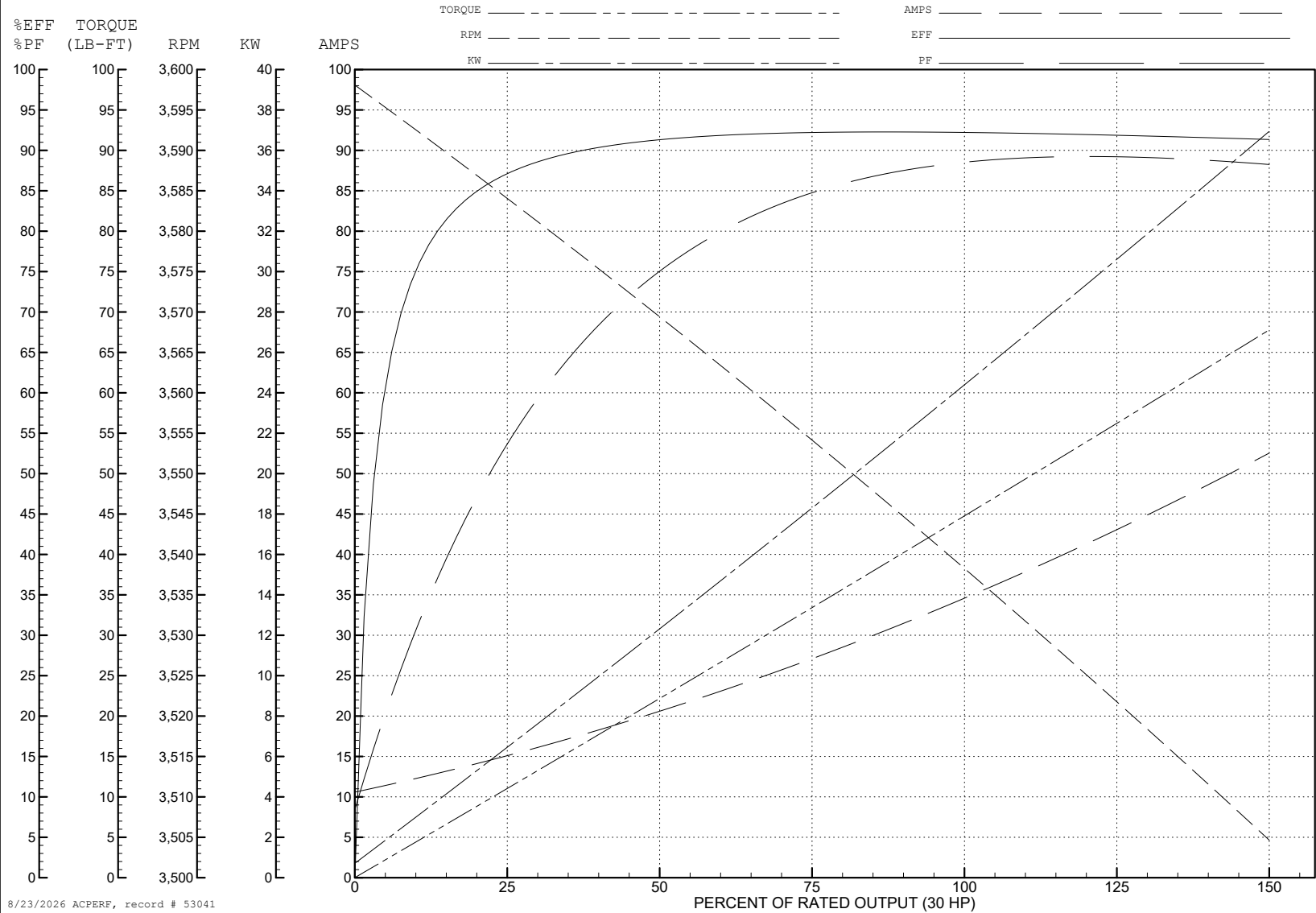
ABB Motors and Mechanical Inc.

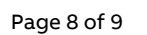
WINDING # 40WGX193

Typical performance - not guaranteed values.

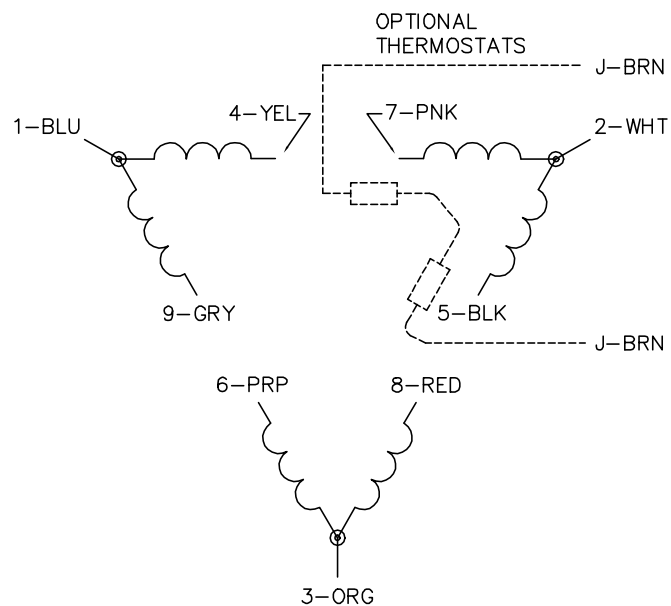
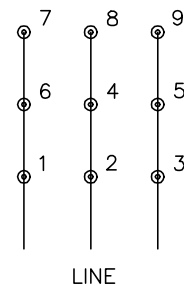
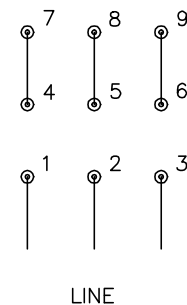
30 HP 3 PH 60 HZ 3530 RPM 460 V 4040M

TORQUES (LB-FT): PO=175 PU=59.3 LR=78.3 LRA=240





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