

ABB BALDOR RELIANCE III

Customer information packet CEM2534T

30HP, 3530RPM, 3PH, 60HZ, 284TSC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	284TSC
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
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	76.000 A @ 208.0 V 70.000 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX193
Layout	40LYE217
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	03-06-2020

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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
NP2138L

CAT.NO.	CEM2534T				P/N						ENCLOSURE			OPSB				
SPEC.	40-0000839			CC	010A		FRAME		284TSC		S/N							
HP	30				CLASS		F		HZ		60							
RPM	3530				PH		3		DES		A							
VOLT	230/460								KVA-CODE			H		ODE BRG		6309	DE BRG	6311
AMP	70/35																	
RATING	40C AMB-CONT						GREASE		POLYREX EM									
NEMA-NOM-EFF	91.7	PF	87	SER.F.		1.15												
HTR-VOLTS			HTR-AMPS															

AC Induction Motor Performance Data

Record # 50428

Typical performance - not guaranteed values

Winding: 40WGX193-R005			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	87	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

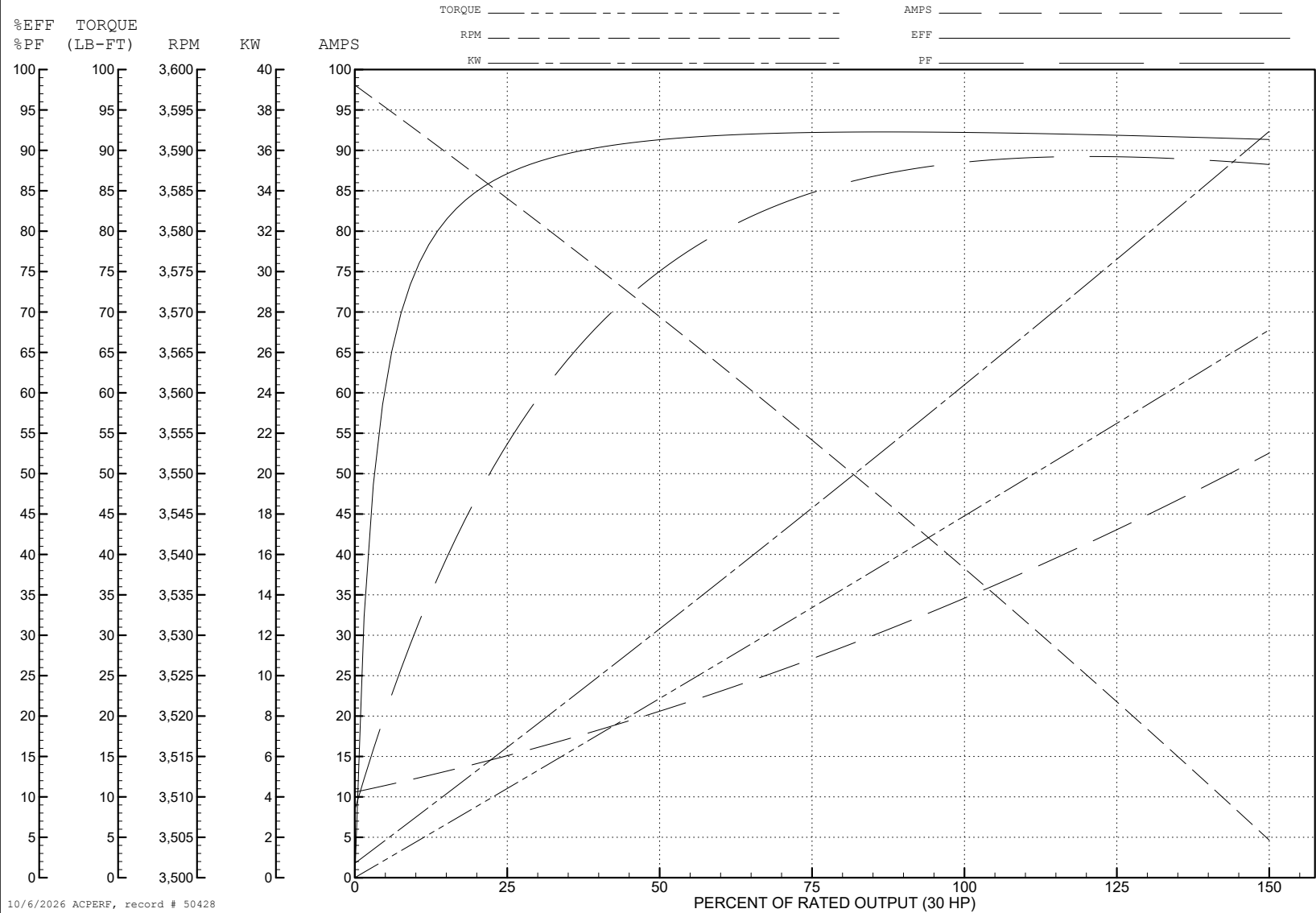
ABB Motors and Mechanical Inc.

WINDING # 40WGX193

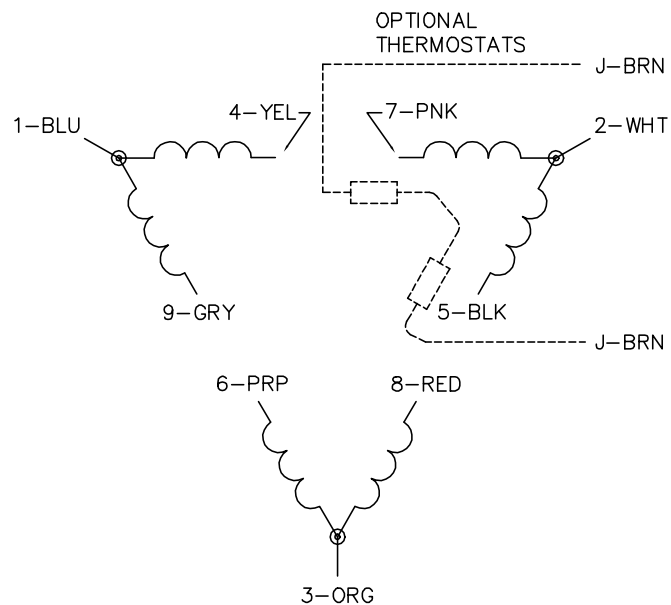
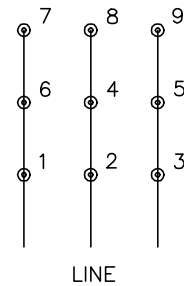
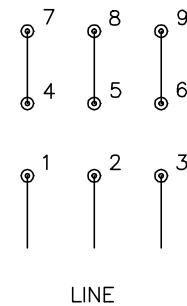
Typical performance - not guaranteed values.

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.

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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