

ABB BALDOR RELIANCE III

Customer information packet

EM2535T-8

30HP, 1775RPM, 3PH, 60HZ, 286T, 4060M, OPSB, N

Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 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	83.000 A @ 200.0 V
	83.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	83.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	D
Type	AC
Mech. spec.	40G48
Base	
Status	PRD/A
Elec. spec.	40WGX451
Layout	40LYG048
Eff. date	09-02-2025
CD Diagram	CD0695
Poles	04
Leads	6#6
Proprietary	False
Created date	07-07-2021

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Part Winding
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.	EM2535T-8				P/N					ENCLOSURE		OPSB					
SPEC.	40G048X451			CC	010A		FRAME		286T		S/N						
HP	30				CLASS		F		HZ		60						
RPM	1775				PH	3		DES		A							
VOLT	200								KVA-CODE		H		ODE BRG		6309	DE BRG	6311
AMP	83																
RATING	40C AMB-CONT				GREASE		POLYREX EM										
NEMA-NOM-EFF	94.1	PF	82	SER.F.		1.15											
HTR-VOLTS					HTR-AMPS												

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 89137

Typical performance - not guaranteed values

Winding: 40WGX451-R001			Type: 4060M		Enclosure: OPSB	
Nameplate Data			200 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		30	Full Load Torque		88.7 LB-FT	
Volts		200	Start Configuration		direct on line	
Full Load Amps		83	Breakdown Torque		281 LB-FT	
R.P.M.		1775	Pull-up Torque		131 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	162 LB-FT	
NEMA Design Code	A	KVA Code	H	Starting Current	581 A	
Service Factor (S.F.)		1.15	No-load Current		35.3 A	
NEMA Nom. Eff.	94.1	Power Factor	82	Line-line Res. @ 25°C	0.0382 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		29°C	
S.F. Amps			Temp. Rise @ S.F. Load		36°C	
			Locked-rotor Power Factor		31.2768	
			Rotor inertia		4.77 lb-ft²	

Load Characteristics 200 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	77	82	84	85	83
Efficiency	90.5	93.9	94.5	94.3	93.5	93.1	93.8
Speed	1794	1788	1783	1777	1770	1763	1773
Line amperes	40.6	51.6	66.7	83.4	102	122	94.6

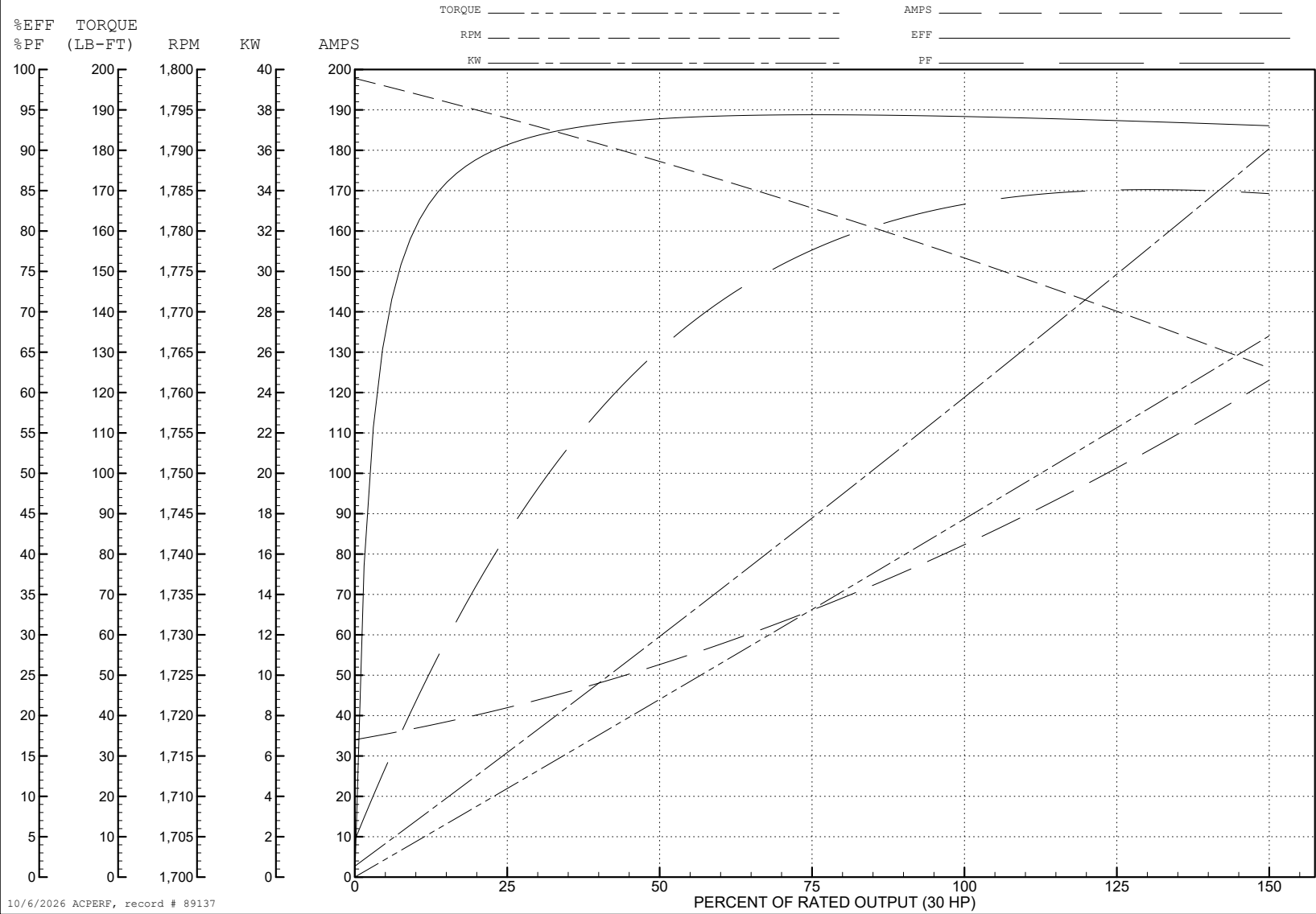
ABB Motors and Mechanical Inc.

WINDING # 40WGX451

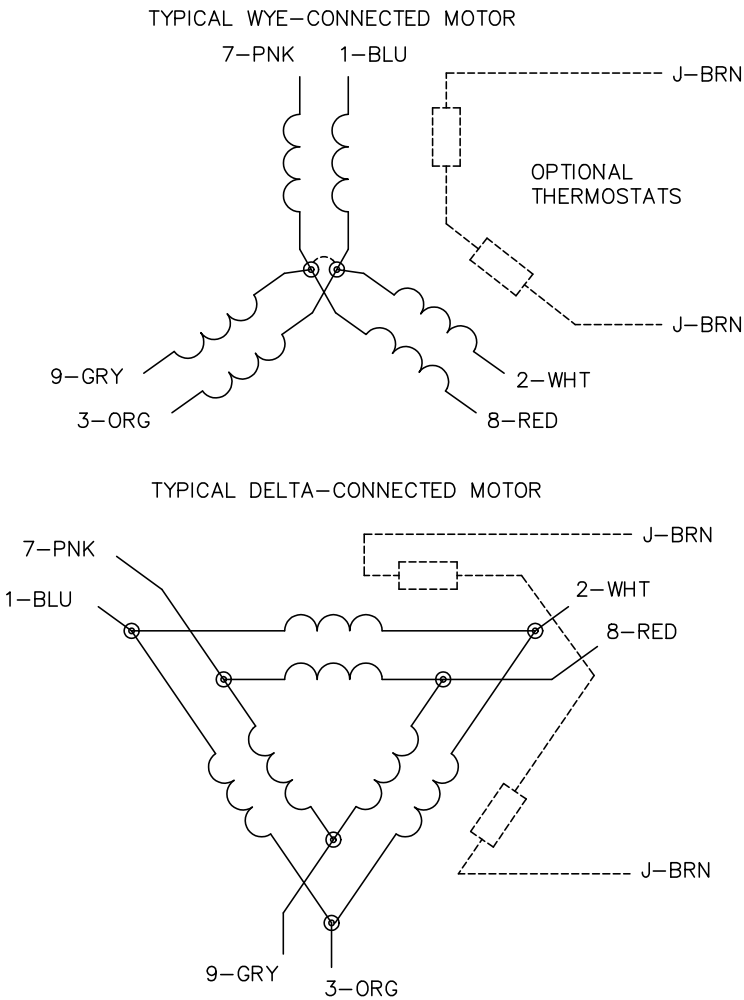
Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1775 RPM 200 V 4060M

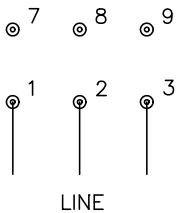
TORQUES (LB-FT): PO=281 PU=131 LR=162 LRA=581



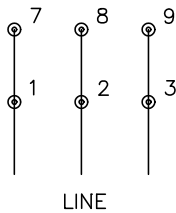
CD0695



START CONNECTION



RUN CONNECTION



- NOTES:
1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

S69000

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695