

ABB BALDOR RELIANCE III

Customer information packet

EM2559T-5

125HP, 1775RPM, 3PH, 60HZ, 405T, 4488M, OPSB, F

Specifications

Enclosure	OPSB
Frame	405T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	114.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
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	114.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	V
Type	AC
Mech. spec.	44E195
Base	
Status	PRD/A
Elec. spec.	44WGW176
Layout	44LYE195
Eff. date	05-14-2026
CD Diagram	CD0006
Poles	04
Leads	3#4
Proprietary	False
Created date	08-07-2009

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.47 IN
Power Factor	86
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	2.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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.	EM2559T-5				P/N						ENCLOSURE		OPSB				
SPEC.	44E195W176G2			CC	010A		FRAME		405T		S/N						
HP	125				CLASS		F		HZ		60						
RPM	1775				PH	3		DES		B							
VOLT	575								KVA-CODE		G		ODE BRG		6312	DE BRG	6316
AMP	114																
RATING	40C AMB-CONT				GREASE		POLYREX EM										
NEMA-NOM-EFF	95.4	PF	86	SER.F.		1.15											
HTR-VOLTS	HTR-AMPS																

AC Induction Motor Performance Data

Record # 24137

Typical performance - not guaranteed values

Winding: 44WGW176-R001			Type: 4488M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		125	Full Load Torque		369 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		114	Breakdown Torque		1030 LB-FT		
R.P.M.		1775	Pull-up Torque		468 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		556 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		752 A
Service Factor (S.F.)		1.15	No-load Current		39 A		
NEMA Nom. Eff.		95.4	Power Factor	86	Line-line Res. @ 25°C		0.0581 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps				Temp. Rise @ S.F. Load		58°C	
				Locked-rotor Power Factor		25	
				Rotor inertia		16.6 LB-FT2	

Load Characteristics 575 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	84	86	87	86	87
Efficiency	93.3	95.6	95.7	95.4	94.9	94.1	95.1
Speed	1794	1789	1783	1777	1770	1763	1773
Line amperes	47	65.5	88.9	115	143	173	132

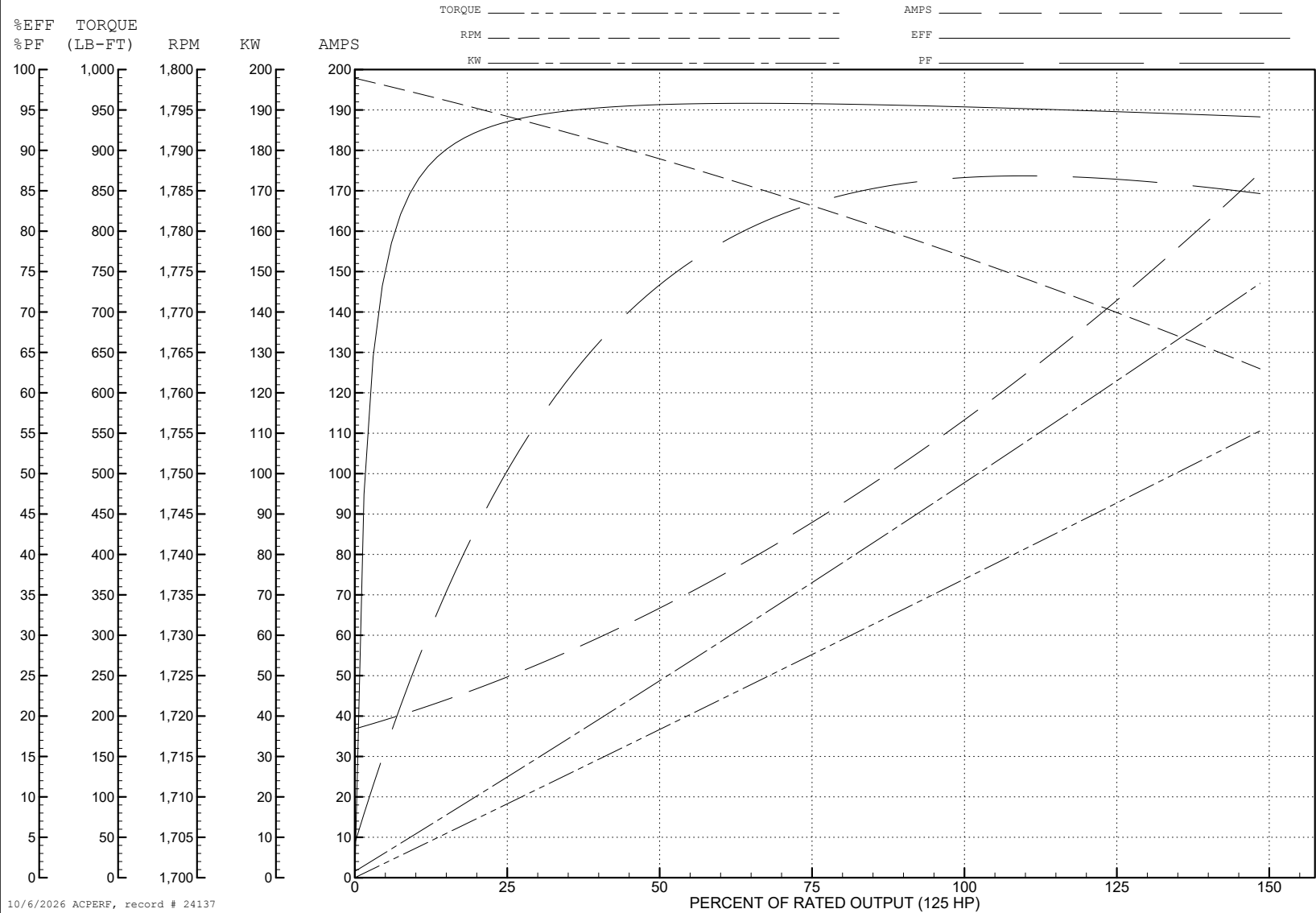
ABB Motors and Mechanical Inc.

WINDING # 44WGW176

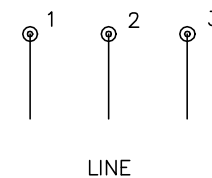
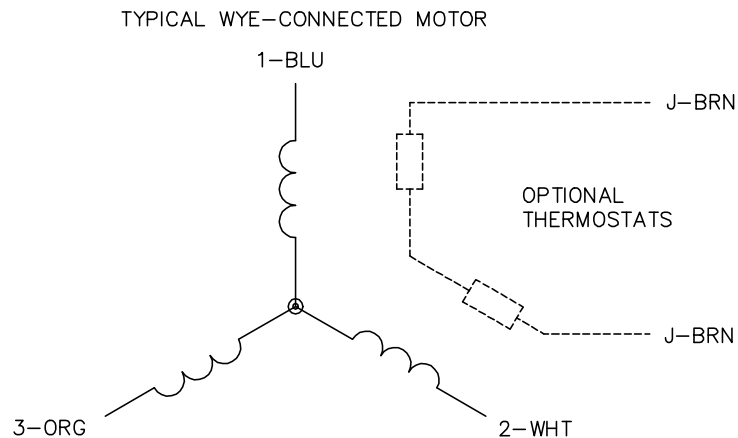
Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 1775 RPM 575 V 4488M

TORQUES (LB-FT): PO=1030 PU=468 LR=556 LRA=752



CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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