

ABB BALDOR RELIANCE III

Customer information packet

EM2555T-5

100HP, 1780RPM, 3PH, 60HZ, 404T, 4484M, OPSB, F

Specifications

Enclosure	OPSB
Frame	404T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 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	93.000 A @ 575.0 V
Design Code	A
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	93.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	S
Type	AC
Mech. spec.	44E012
Base	
Status	PRD/A
Elec. spec.	44WGW315
Layout	44LYE012
Eff. date	11-19-2024
CD Diagram	CD0006
Poles	04
Leads	3#4
Proprietary	False
Created date	08-06-2010

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	4484M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.97 IN
Power Factor	83
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	1780 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.	EM2555T-5				P/N						ENCLOSURE		OPSB				
SPEC.	44E012W315G1			CC	010A		FRAME		404T		S/N						
HP	100				CLASS		F		HZ		60						
RPM	1780				PH	3		DES		A							
VOLT	575								KVA-CODE		H		ODE BRG		6312	DE BRG	6316
AMP	93																
RATING	40C AMB-CONT				GREASE				POLYREX EM								
NEMA-NOM-EFF	95.4	PF	83	SER.F.		1.15											
HTR-VOLTS	HTR-AMPS																

AC Induction Motor Performance Data

Record # 32035

Typical performance - not guaranteed values

Winding: 44GW315-R001				Type: 4484M		Enclosure: OPSB		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		100		Full Load Torque		295 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		93		Breakdown Torque		839 LB-FT		
R.P.M.		1780		Pull-up Torque		355 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		471 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		646 A
Service Factor (S.F.)		1.15		No-load Current		33.5 A		
NEMA Nom. Eff.		95.4	Power Factor	83		Line-line Res. @ 25°C		0.0697 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C		
S.F. Amps				Temp. Rise @ S.F. Load		57°C		
				Locked-rotor Power Factor		25		
				Rotor inertia		15.9 LB-FT2		

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	73	81	85	86	87	86
Efficiency	92.6	95.4	95.6	95.5	95.1	94.4	95.3
Speed	1794	1790	1785	1780	1775	1769	1777
Line amperes	40.1	53.9	72.1	92.7	115	137	106

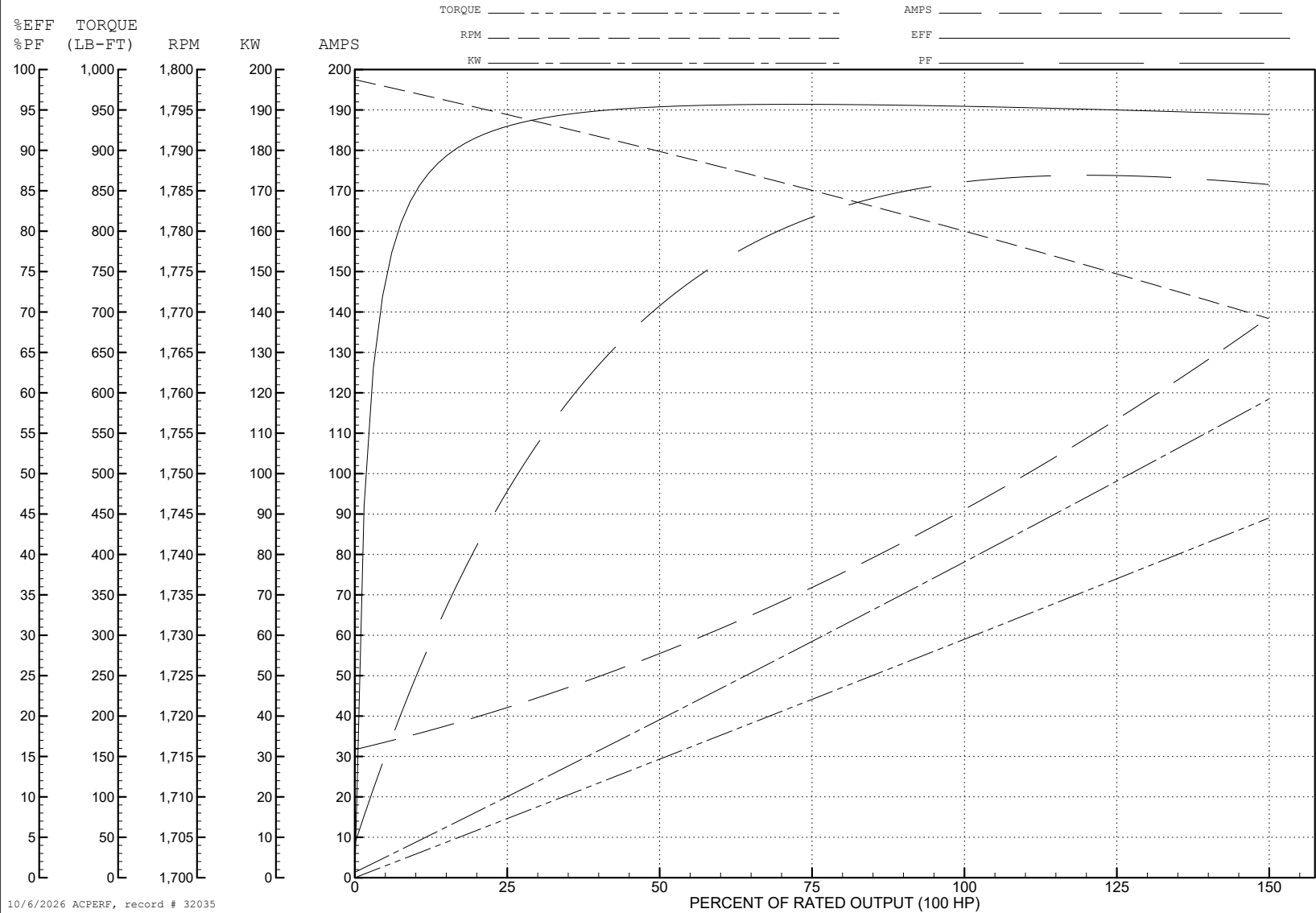
ABB Motors and Mechanical Inc.

WINDING # 44WGW315

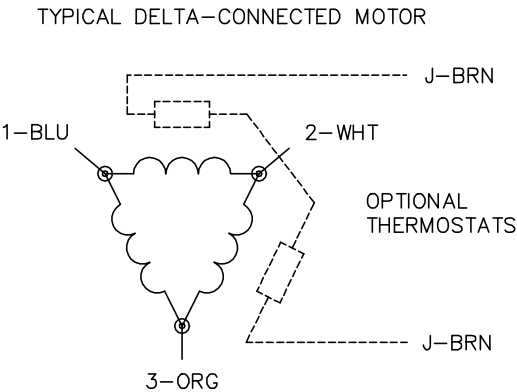
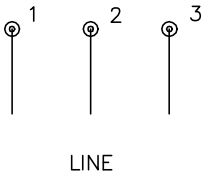
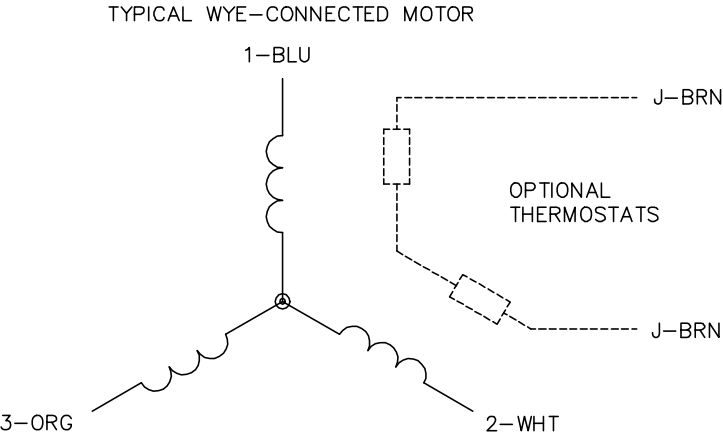
Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1780 RPM 575 V 4484M

TORQUES (LB-FT): PO=839 PU=355 LR=471 LRA=646



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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