

ABB BALDOR RELIANCE III

Customer information packet EM2547T

60HP, 1775RPM, 3PH, 60HZ, 364T, 4278M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	364T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	150.000 A @ 208.0 V 69.000 A @ 460.0 V 138.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
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	69.0 a

Part Detail

Revision	Z
Type	AC
Mech. spec.	42E211
Base	
Status	PRD/A
Elec. spec.	42WGW587
Layout	42LYE211
Eff. date	05-29-2025
CD Diagram	CD0180
Poles	04
Leads	9#4
Proprietary	False
Created date	07-27-2009

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4278M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.69 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	2.375 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

NP2138LUA													
CAT.NO.	EM2547T				P/N					ENCLOSURE		OPSB	
SPEC.	42E211W587			CC	010A	FRAME		364T		S/N			
HP	60				CLASS		F	HZ	60				
RPM	1775				PH	3	DES		A				
VOLT	230/460				KVA-CODE			H	ODE BRG		6311	DE BRG	6313
AMP	138/69												
RATING	40C AMB-CONT				GREASE			POLYREX EM					
NEMA-NOM-EFF	95	PF	86	SER.F.	1.15								
	50Hz 60Hp 190/380V 162/81A						SF 1.0						
HTR-VOLTS			HTR-AMPS										

Accessories

Part number	Description	Multiplier
42-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 112389

Typical performance - not guaranteed values

Winding: 42WGW587-R001			Type: 4278M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		60	Full Load Torque		178 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		138/69	Breakdown Torque		555 LB-FT		
R.P.M.		1775	Pull-up Torque		269 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		294 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		488 A
Service Factor (S.F.)		1.15		No-load Current		23.61 A	
NEMA Nom. Eff.		95	Power Factor	86	Line-line Res. @ 25°C		0.0911 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		38°C	
S.F. Amps				Temp. Rise @ S.F. Load		47°C	
				Locked-rotor Power Factor		26.2	
				Rotor inertia		10.4 LB-FT2	

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	74	82	86	87	88	86
Efficiency	92.6	95	95.3	95	94.5	93.8	94.8
Speed	1794	1789	1783	1778	1773	1766	1776
Line amperes	28.8	39.84	53.77	69.23	85.81	103	79.7

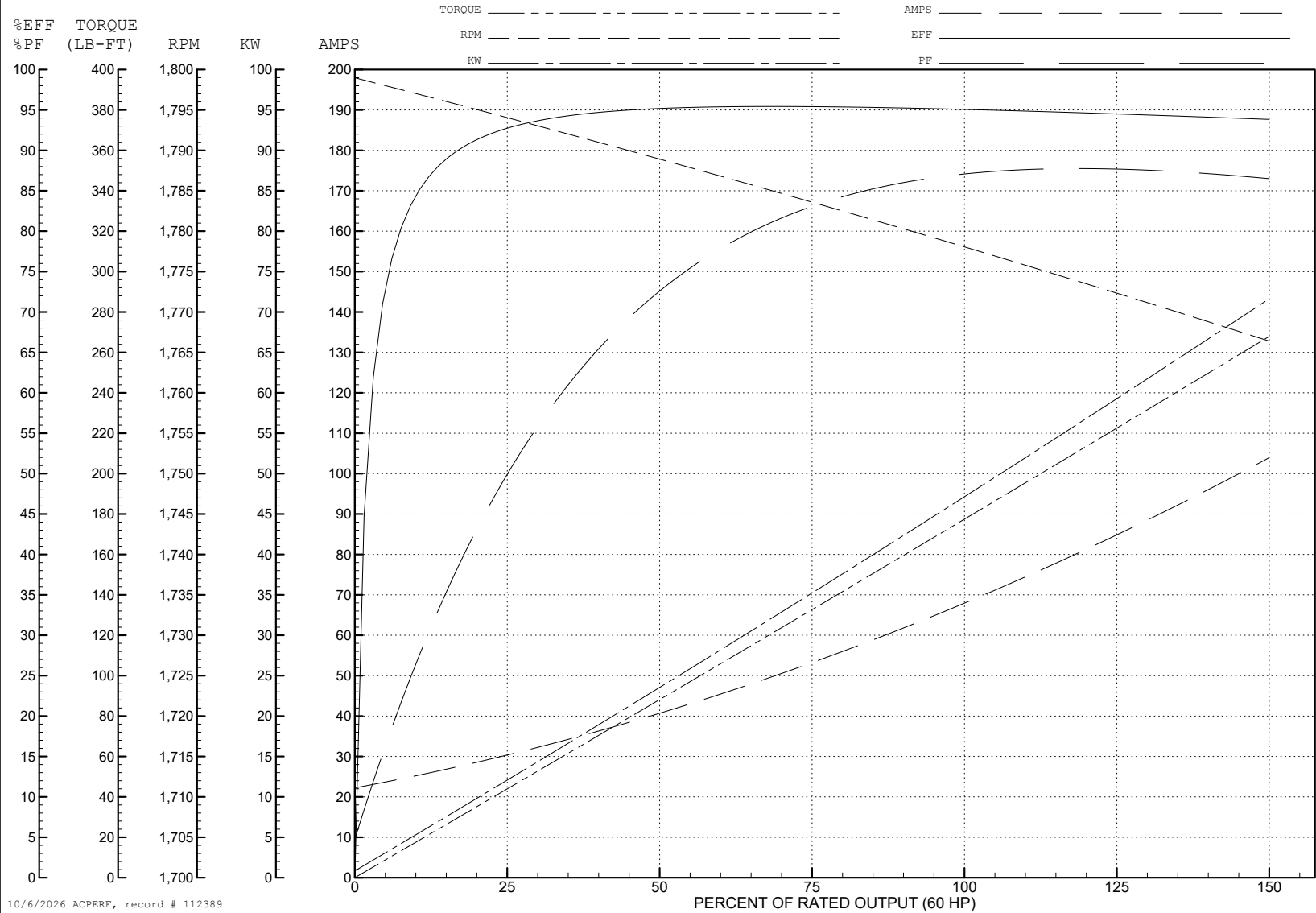
ABB Motors and Mechanical Inc.

WINDING # 42WGW587

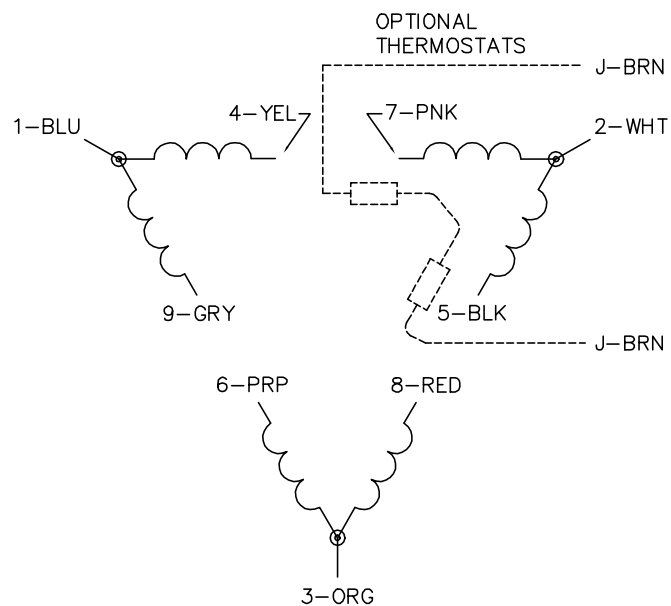
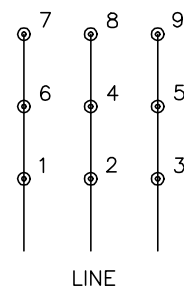
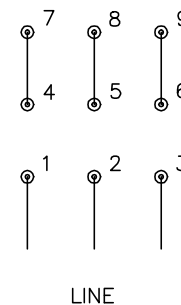
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60 HP 3 PH 60 HZ 1775 RPM 460 V 4278M

TORQUES (LB-FT): PO=555 PU=269 LR=294 LRA=488



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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