

ABB BALDOR RELIANCE III

Customer information packet

EM2547T-5

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	575.0 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	56.000 A @ 575.0 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	56.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	W
Type	AC
Mech. spec.	42E211
Base	
Status	PRD/A
Elec. spec.	42WGW589
Layout	42LYE211
Eff. date	02-12-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	07-27-2009

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 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	87
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

NP2138L														
CAT.NO.	EM2547T-5			P/N					ENCLOSURE		OPSB			
SPEC.	42E211W589		CC	010A	FRAME		364T		S/N					
HP	60			CLASS		F	HZ		60					
RPM	1775			PH	3	DES		A						
VOLT	575						KVA-CODE		G	ODE BRG		6311	DE BRG	6313
AMP	56													
RATING	40C AMB-CONT				GREASE		POLYREX EM							
NEMA-NOM-EFF	95	PF	87	SER.F.	1.15									
HTR-VOLTS	HTR-AMPS													

Parts List

Part number	Description	Quantity
SA184449	SA 42E211W589	1.000 ea
RA172284	RA 42E211W589	1.000 ea
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3002	CONDUIT BOX CAST W/3.625 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
42EP3200A01	FR ENDPLATE, MACH	1.000 ea
HW5100A13	W4627-047 WVY WSHR	1.000 ea
42EP1202A01	STD PU ENDPLATE MODEL 42 313 BRG.	1.000 ea
10XN3816K44	3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501J36	KEY, 5/8 SQ X 4.250	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.080 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea

42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3151A12	THRUBOLT STUD 1/2-13 X 23.00	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP2138L	ALUM SUPER-E UL PREM CC (300	1.000 ea
42PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea
PE-0000013	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
42-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 13774

Typical performance - not guaranteed values

Winding: 42WGW589-R001			Type: 4278M		Enclosure: OPSB			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		60	Full Load Torque		177 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		56	Breakdown Torque		624 LB-FT			
R.P.M.		1775	Pull-up Torque		245 LB-FT			
Hz	60 Phase	3	Locked-rotor Torque		314 LB-FT			
NEMA Design Code		A	KVA Code	G	Starting Current		376 A	
Service Factor (S.F.)		1.15	No-load Current		17.8 A			
NEMA Nom. Eff.		95	Power Factor		87	Line-line Res. @ 25°C		0.131 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		30°C		
S.F. Amps				Temp. Rise @ S.F. Load		40°C		
				Locked-rotor Power Factor		26.2		
				Rotor inertia		10.4 LB-FT2		

Load Characteristics 575 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	85	87	89	89	88
Efficiency	92.6	94.9	95.3	95	94.6	93.7	94.8
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	21.8	31	41.7	54.1	66.9	81	61.8

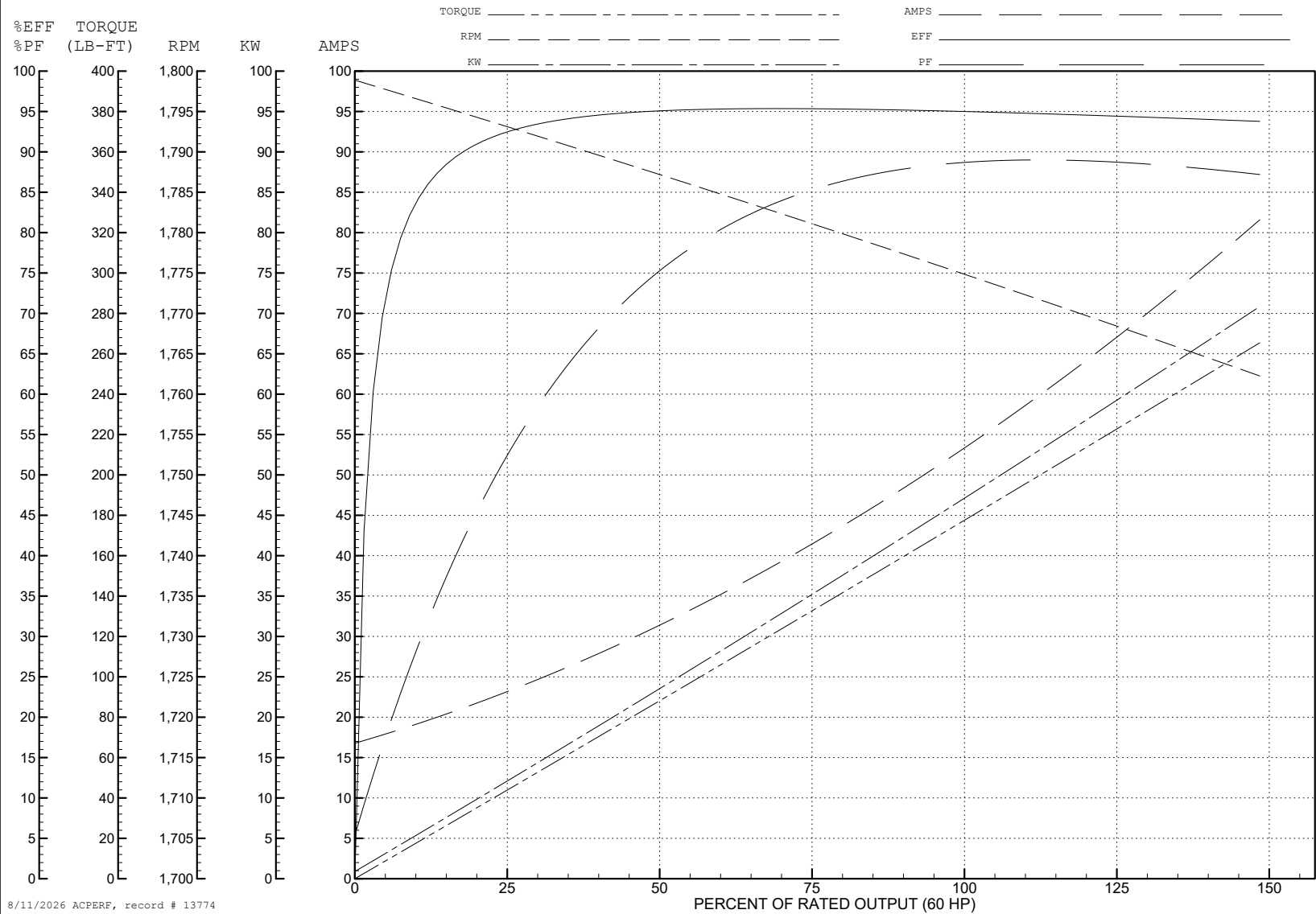
ABB Motors and Mechanical Inc.

WINDING # 42WGW589

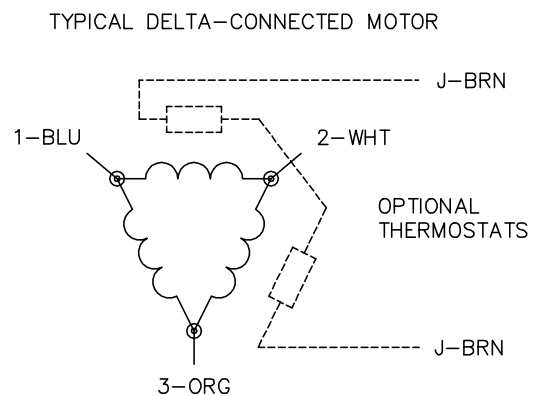
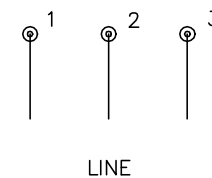
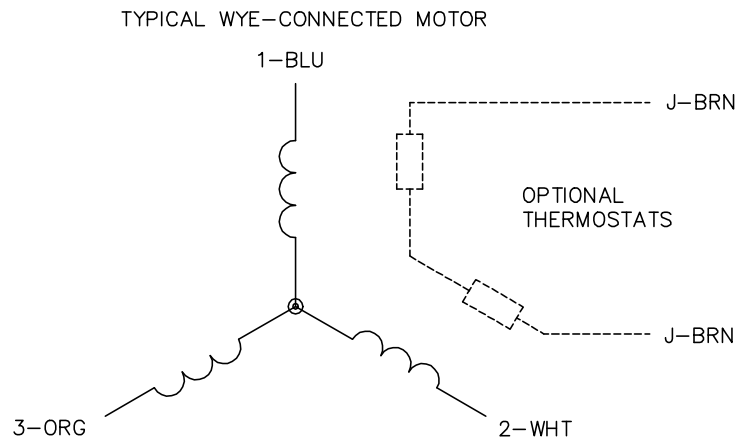
Typical performance - not guaranteed values.

60 HP 3 PH 60 HZ 1775 RPM 575 V 4278M

TORQUES (LB-FT): PO=624 PU=245 LR=314 LRA=376



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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