

ABB BALDOR RELIANCE III

Customer information packet

EM4338T

30HP, 890RPM, 3PH, 60HZ, 364T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	39.300 A @ 460.0 V 78.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	39.3 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0431
Layout	617431-412
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	08
Leads	3#6,6#8
Proprietary	False
Created date	01-13-2015

Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36050M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.44 IN
Power Factor	77
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2349L													
SPEC NO.	A36-6049-0999			CAT.NO.		EM4338T				FRAME	364T		
HP	30	VOLTS		230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	890	AMPS		78.6/39.3		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS			F				
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	G						
SER.NO.				POWER FACTOR		77	NEMA-NOM-EFFICIENCY				92.4		
						MAX CORR KVAR			10	GUARANTEED EFFICIENCY		91	
						NEMA NOM/CSA QUOTED EFF							
											MOTOR WEIGHT		

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							EM4338T - 30HP, 890RPM, 3PH, 60HZ, 364T, TEFC, F1													
							FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS					
							364T			30			P			3/60			890			230/460					
							AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
							78.6/39.3			CONT			40/B			1.15			B			G			TEFC		
							E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
							591745			418141-73-AE			---			---			.0676/.270								
PERFORMANCE																											
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY												
NO LOAD			0			19.7			900			4.34			0												
1/4			7.52			21.5			897			37.2			88.3												
2/4			15.0			25.8			894			59.1			92.3												
3/4			22.5			32.0			891			70.7			92.9												
4/4			30.0			39.3			888			77.0			92.7												
5/4			37.5			47.8			884			80.0			91.9												
SPEED TORQUE																											
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES												
LOCKED ROTOR						0			138			244			210												
PULL UP						213			130			231			198												
BREAKDOWN						841			229			406			119												
FULL LOAD						888			100			177			39.3												
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																											
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.0 PCT. GUARANTEED MIN. EFF. 92.4 PCT.																											
						DRAWN BY: <u>P.B. GREENE</u> CHECKED BY: <u>K.W. KANOUFF</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>06/04/93</u>						AC MOTOR PERFORMANCE DATA				A36WG0431-R001 DATE ISSUED 08/28/18											

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. ---

HP 30

AMPS 78.6/39.3

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

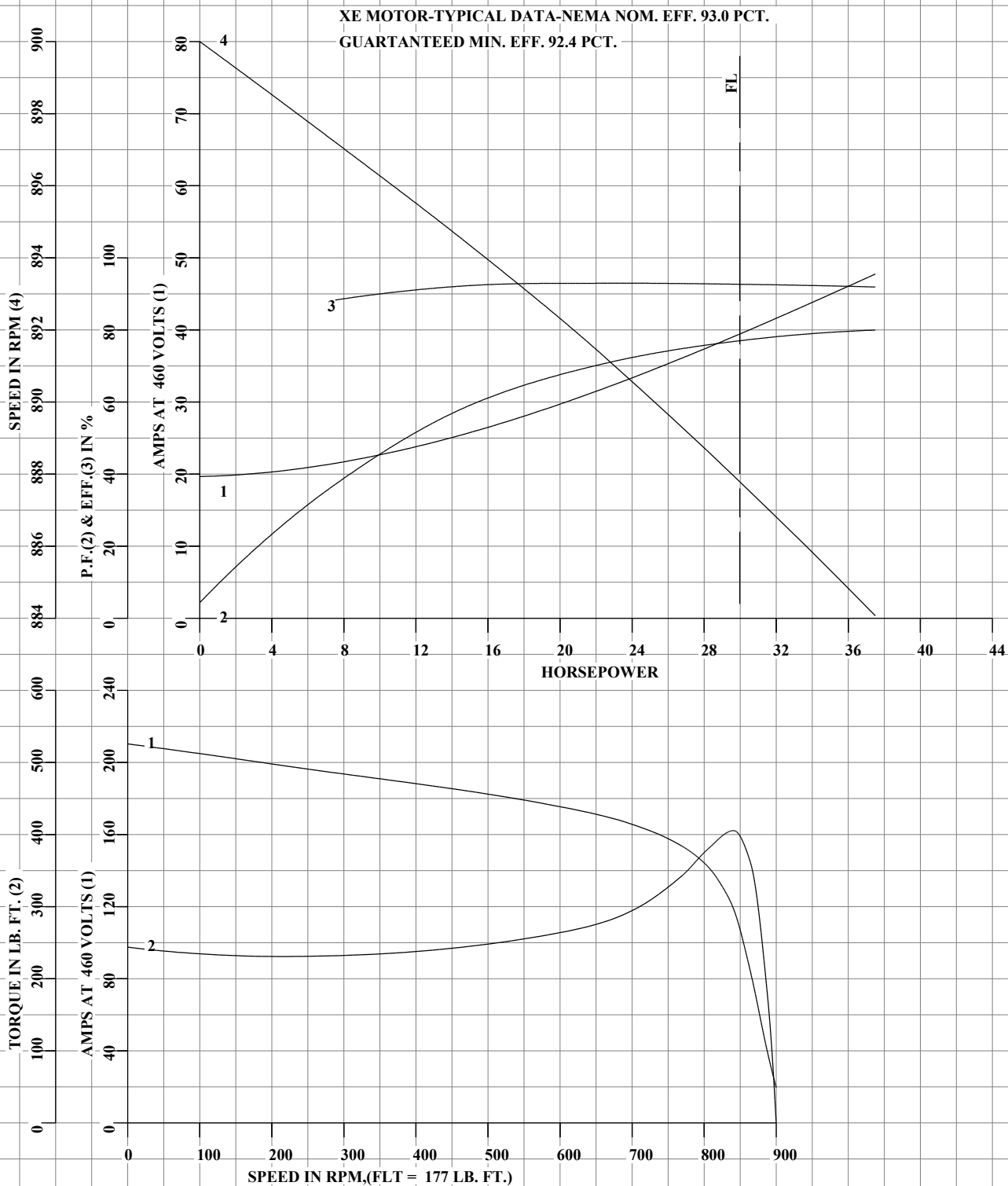
STATOR RES. @ 25°C .0676/.270

PHASE / HERTZ 3/60

AMB °C / INSUL 40/B

E/S 591745

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

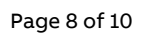


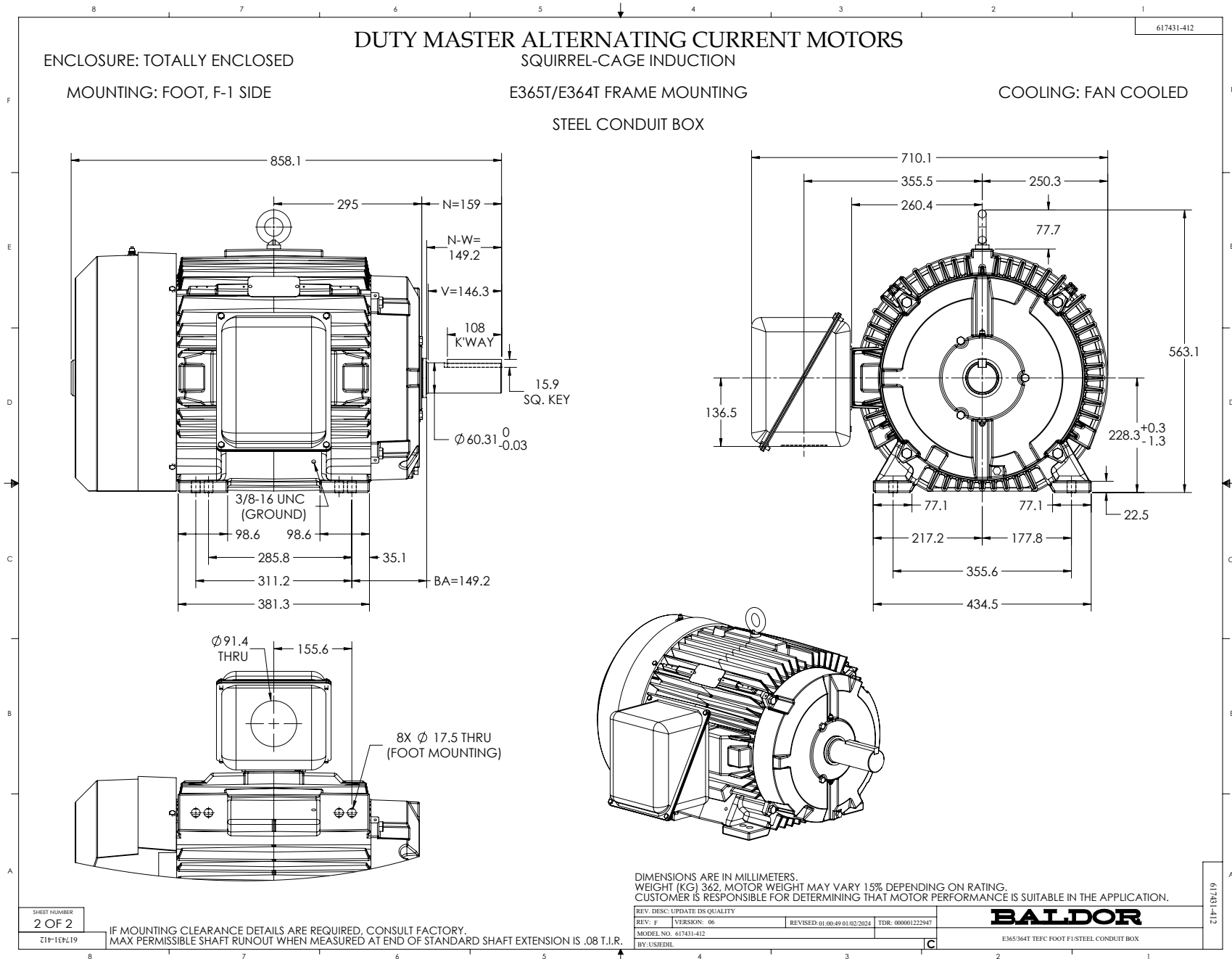
DRAWN BY: P.B. GREENE
CHECKED BY: K.W. KANOUFF
APPROVED BY: E.J. CHRISTIAN
DATE: 06/04/93

AC MOTOR
PERFORMANCE
DATA

A36WG0431-R001

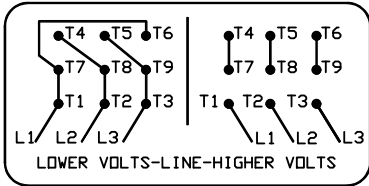
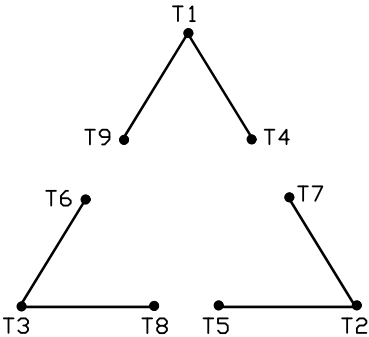
ISSUE DATE 08/28/18





416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1