

ABB BALDOR RELIANCE III

Customer information packet

EWDM4312T

50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	124.000 A @ 230.0 V 132.000 A @ 208.0 V 62.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617428-593
Eff. date	01-12-2023
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-03-2022

Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	81
Product Family	Washdown Features
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L



NP2428L

SPEC NO.	A36-8076-4262			CAT.NO.	EWDM4312T					FRAME	365T	
HP	50	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	1185	AMPS	124/62		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03JGG30A			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03JGG30A			ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR		81	NEMA-NOM-EFFICIENCY				94.1	
	10:1 CT AND 10:1 VT ON VPWM						MAX CORR KVAR		15.8	GUARANTEED EFFICIENCY		93
	INVERTER, 1.00SF						NEMA NOM/CSA QUOTED EFF					
	IP55										MOTOR WEIGHT	908

ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET			EWDM4312T - 50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F		
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365HP	50	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
124/61.9	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418141089AE	---	---	.0290/.116		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	23.9	1200	5.00	0	
1/4	12.5	28.4	1197	45.8	90.1	
2/4	25.0	37.2	1194	67.2	93.6	
3/4	37.5	48.7	1191	76.4	94.3	
4/4	50.0	61.9	1188	80.3	94.2	
5/4	62.5	76.1	1185	82.0	93.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	165	365	375	
PULL UP		540	147	325	335	
BREAKDOWN		1135	253	559	200	
FULL LOAD		1188	100	221	61.9	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA NEMA NOM. EFF. 94.1 PCT						
ABB		DRAWN BY: C.B.ATANGANE CHECKED BY: J. P. TSAO APPROVED BY: W. L. SMITH DATE: 11/12/25		AC MOTOR PERFORMANCE DATA		A36WG4262-R001 DATE ISSUED 11/12/25

FRAME 365HP

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 50

AMPS 124/61.9

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

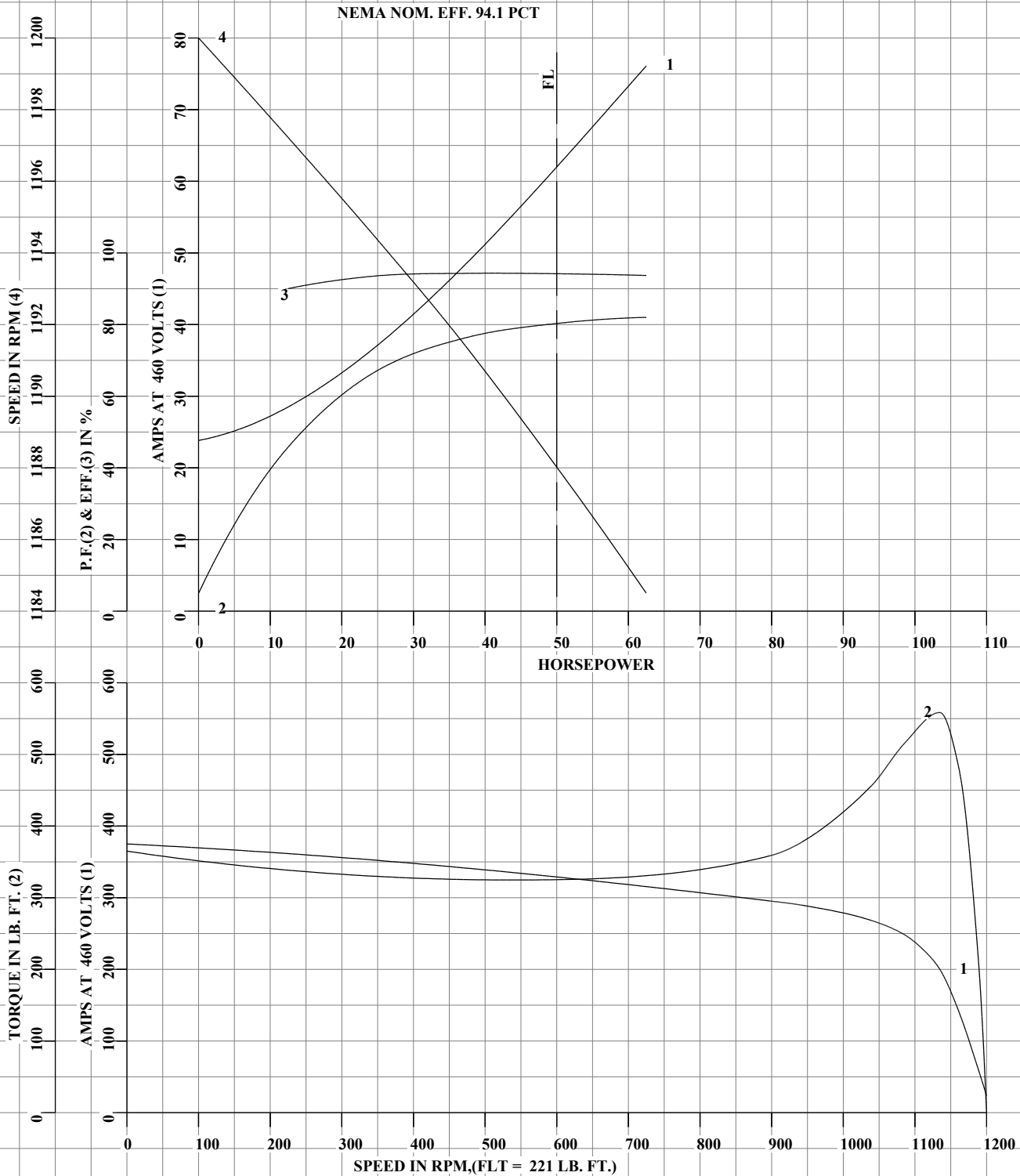
STATOR RES. @ 25°C .0290/.116

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S -

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: C.B.ATANGANE
CHECKED BY: J. P. TSAO
APPROVED BY: W. L. SMITH
DATE: 11/12/25

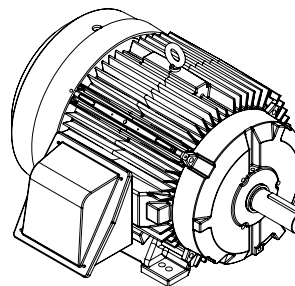
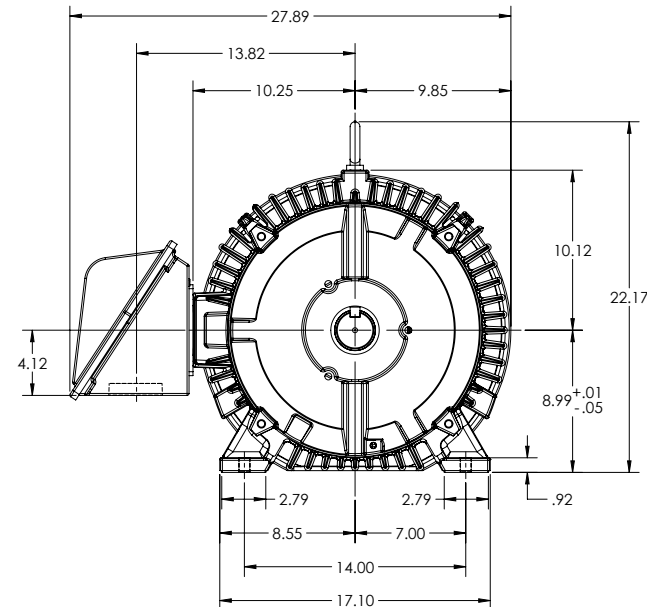
AC MOTOR
PERFORMANCE
DATA

A36WG4262-R001

ISSUE DATE 11/12/25

617428-593

ENCLOSURE ENHANCEMENT: SEVERE DUTY



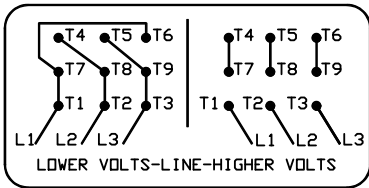
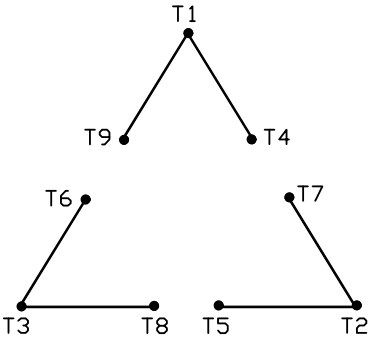
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: REMOVE SLINGER NOTE			
REV: A	VERSION: 01	REVISED: 08:44:29 03/26/2020	TDR: 000001135936
MODEL NO. 617428-593			
BY: RAGJSS1			

E365/4T TEFC F1 FT SEVERE-

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