

ABB BALDOR RELIANCE III

Customer information packet

SPM4407T-4

200HP, 1790RPM, 3PH, 60HZ, 447T, A44124M, TEFC

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	447T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	224.000 A @ 460.0 V
Design Code	A
Duty Rating	CONT
Efficiency @ 100% Load	96.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	224.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6734
Layout	617435-192
Eff. date	12-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group) Y
Proprietary	False
Created date	10-09-2023

Motor Standards	NEMA
Motor Type	A44124M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.47 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1790 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP4562L

CAT NO	SPM4407T-4		SPEC NO.		A44-5000-6734				I.P.		55			
HP	200	AMPS	227		VOLTS		460		DESIGN		A			
FRAME SIZE	449T	RPM	1790		MAX RPM		2700	HZ	60	AMB	40			
D.E. BRG.	90BC03J30X		PH.3	3	DUTY	CONT		INSUL.CLASS		F				
O.D.E. BRG.	90BC03J30X		TYPE P		P	ENCL	TEFC	SF	1.15	CODE	J			
POWER FACTOR	85	MAX CORR KVAR		43		NEMA NOM EFFICIENCY				96.5		MOTOR WEIGHT	LBS	
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T3		CL.1,ZONE 2,GRP:				IIA,IIB,IIC		T=	200	INVERTER T.CODE	T3
CL.II,DIV 2,GRP:	F,G	T.CODE	T3C		CL II ZONE 22 GRPS IIIB				T=		160	INVERTER T.CODE		T3C
ID LOGO	INV TYPE:	VPWM	CT	30	TO	60	VT	3	TO	60	CHP	60	TO	90
ID LOGO	1.0 SF VPWM		WK2	81.8	LBFT2		SL HZ		0.37		MAG CUR		74.5	
SER.NO.			MEETS INTENT OF IEEE-45						FOR WEATHER PROTECTION					

NP2496L	
MOBIL POLYREX EM	

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					SPM4407T-4 - 200HP, 1790RPM, 3PH, 60HZ, 447T, A44124M, TEFC				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		449T	200	P	3/60	1790	460				
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
227		CONT	40/F	1.15	A	J	TEFC				
E/S		ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)						
---		A44RC40124A00	---	---	.0127						
PERFORMANCE											
LOAD		HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY				
NO LOAD		0	74.5	1800	3.59		0				
1/4		50.0	93.5	1797	53.2		94.1				
2/4		100	130	1795	74.8		96.2				
3/4		150	176	1792	82.4		96.6				
4/4		200	227	1789	85.3		96.5				
5/4		250	279	1786	87.1		96.3				
SPEED TORQUE											
			RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES				
LOCKED ROTOR			0	208	1220		1830				
PULL UP			1200	193	1135		1535				
BREAKDOWN			1726	335	1970		1000				
FULL LOAD			1789	100	587		227				
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. 96.5 PCT											
			DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/03/24</u>		AC MOTOR PERFORMANCE DATA		A44WG6734-R002 DATE ISSUED 12/03/24				

FRAME 449T

RPM 1790

S.F. 1.15

ROTOR A44RC40124A00

HP 200

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

TYPE P

AMPS 227

CODE LETTER J

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

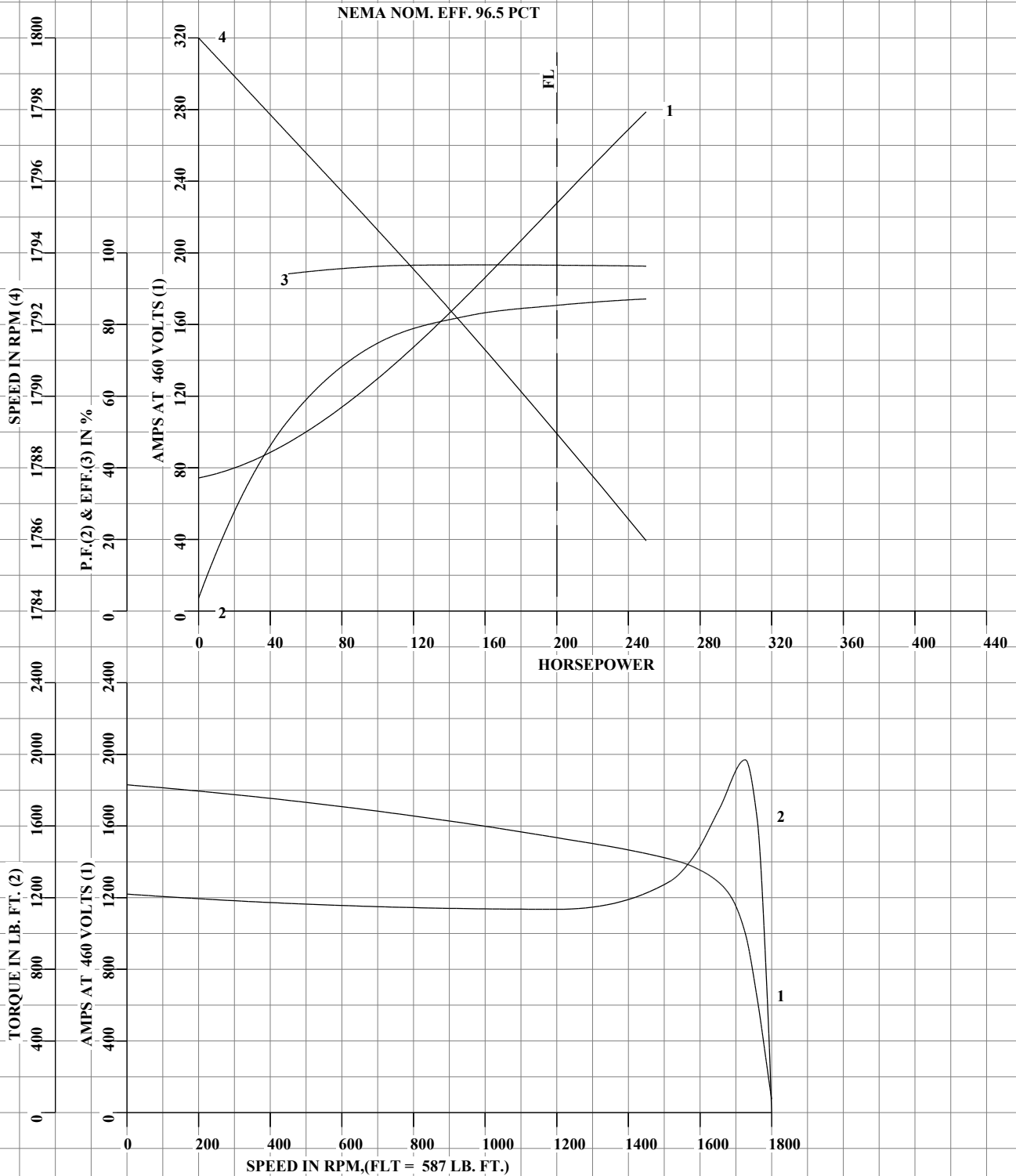
ENCLOSURE TEFC

STATOR RES. @ 25°C .0127

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



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

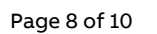


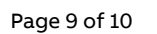
DRAWN BY: W. L. SMITH
CHECKED BY: C.E. JAMISON
APPROVED BY: W. L. SMITH
DATE: 12/03/24

AC MOTOR
PERFORMANCE
DATA

A44WG6734-R002

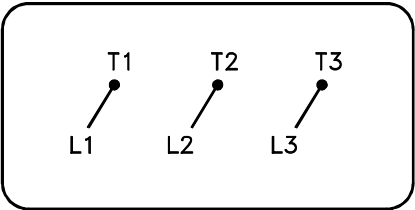
ISSUE DATE 12/03/24





416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1