

ABB BALDOR RELIANCE III

Customer information packet

XM36462T

40HP, 1190RPM, 3PH, 60HZ, 364T, TEFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 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 CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	49.800 A @ 460.0 V 99.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	49.8 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1194
Layout	611742-987
Eff. date	02-26-2020
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	11-15-2019

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	80
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC		
CLASS I GROUP	D X X	NO.
CLASS II GROUP	F G X	
OPERATING TEMP CODE	T3C	

NP4017L

SPEC NO.	A36-7824-1194			CAT.NO.	XM36462T					FRAME SIZE	364T
HP	40	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1190	AMPS	99.6/49.8		HZ	60	AMB	40	SF	1.00	
DRIVE END BEARING	65BC03J30X		DUTY	CONT	INSUL CLASS			F			
OPP D.E. BEARING	65BC03J30X		ENCL	TEFC	CODE	G					
SINE WAVE SF	1.15	WK2	19.1	MAG CUR	18.5	MAX RPM		3000			
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90	NOM.EFF.		94.1			
	IP54										
SER.NO.				MOTOR WEIGHT							

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET		XM36462T - 40HP, 1190RPM, 3PH, 60HZ, 364T, TEFC, F1		
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	40	P	3/60	1190	230/460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
99.6/49.8	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491378	418141088JE	---	---	.0373/.149		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	18.5	1200	5.70	0	
1/4	10.0	22.4	1197	47.0	89.2	
2/4	20.0	29.6	1194	67.8	93.2	
3/4	30.0	39.1	1191	76.3	94.1	
4/4	40.0	49.8	1188	79.9	94.1	
5/4	50.0	61.2	1184	81.6	93.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	165	291	300	
PULL UP		480	142	251	274	
BREAKDOWN		1134	251	444	172	
FULL LOAD		1188	100	177	49.8	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 94.1 % GUARANTEED MIN. EFF. 93.0%						
		DRAWN BY: <u>T.G. KELATI</u> CHECKED BY: <u>D. H. MAY</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>10/12/06</u>		AC MOTOR PERFORMANCE DATA		A36WG1194-R015 DATE ISSUED 01/24/25

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 99.6/49.8

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

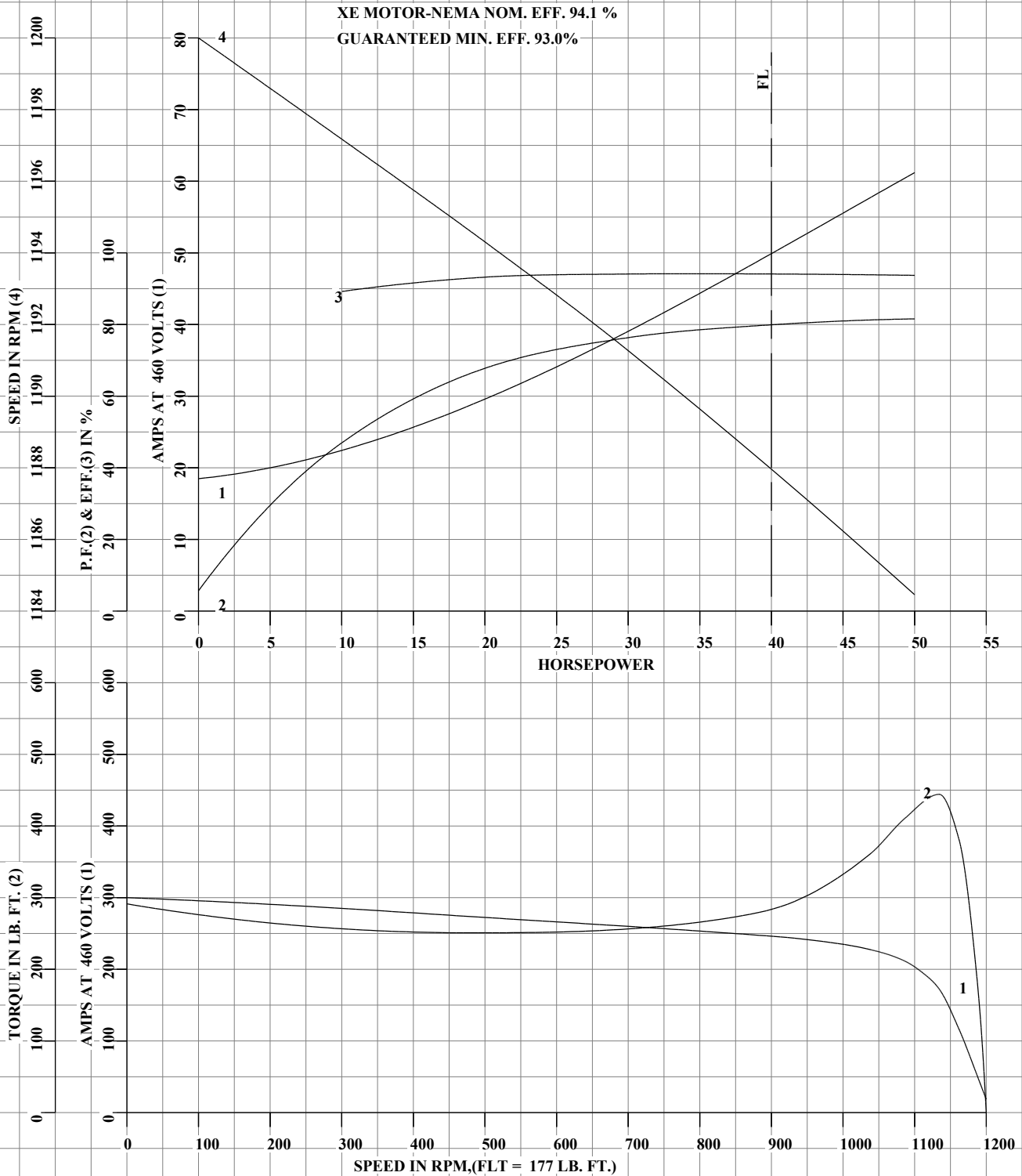
STATOR RES. @ 25°C .0373/.149

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491378

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.



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AC MOTOR
PERFORMANCE
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A36WG1194-R015

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FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 99.6/49.8

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

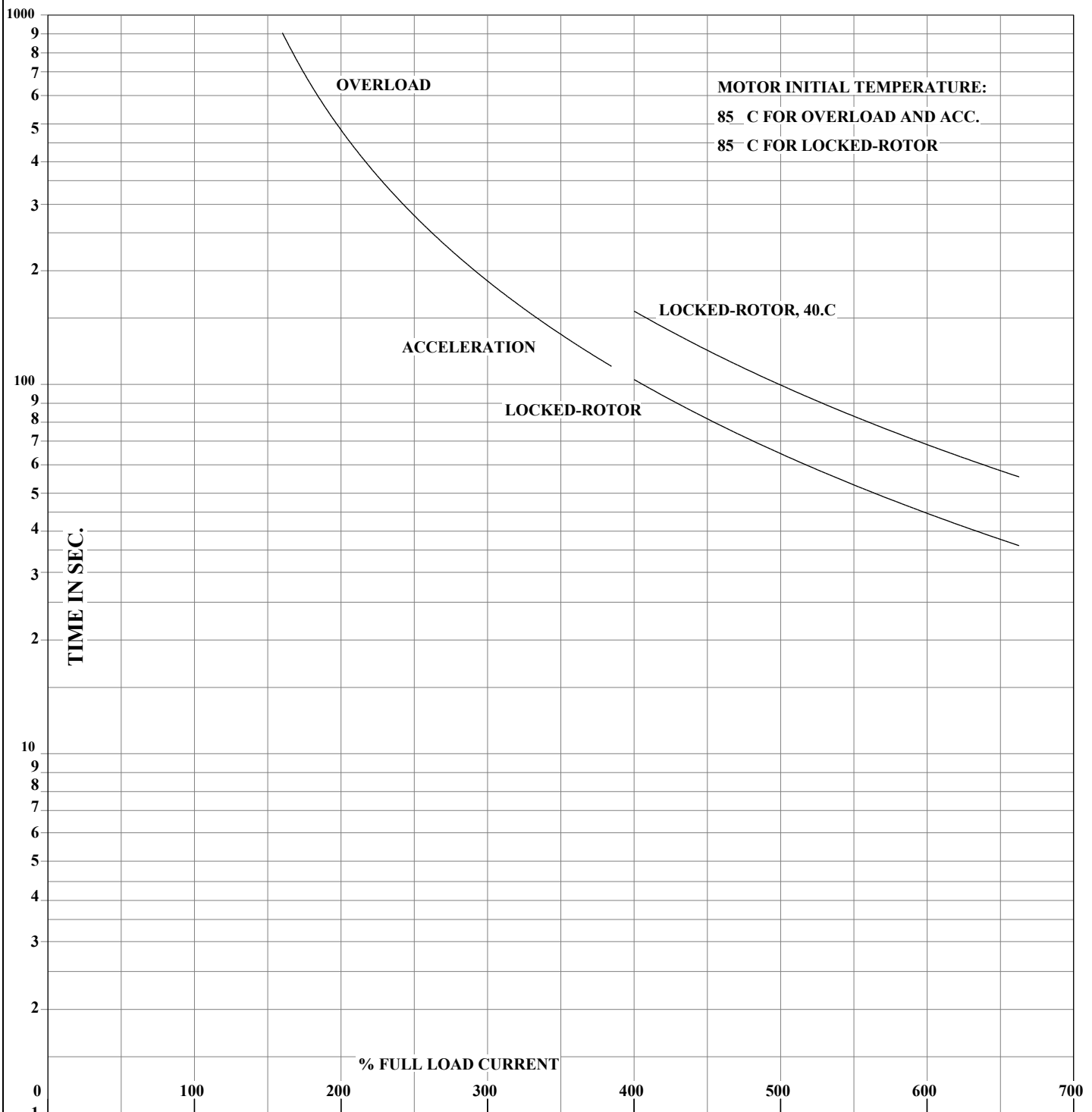
STATOR RES. @ 25°C .0373/.149

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491378

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 94.1 %

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

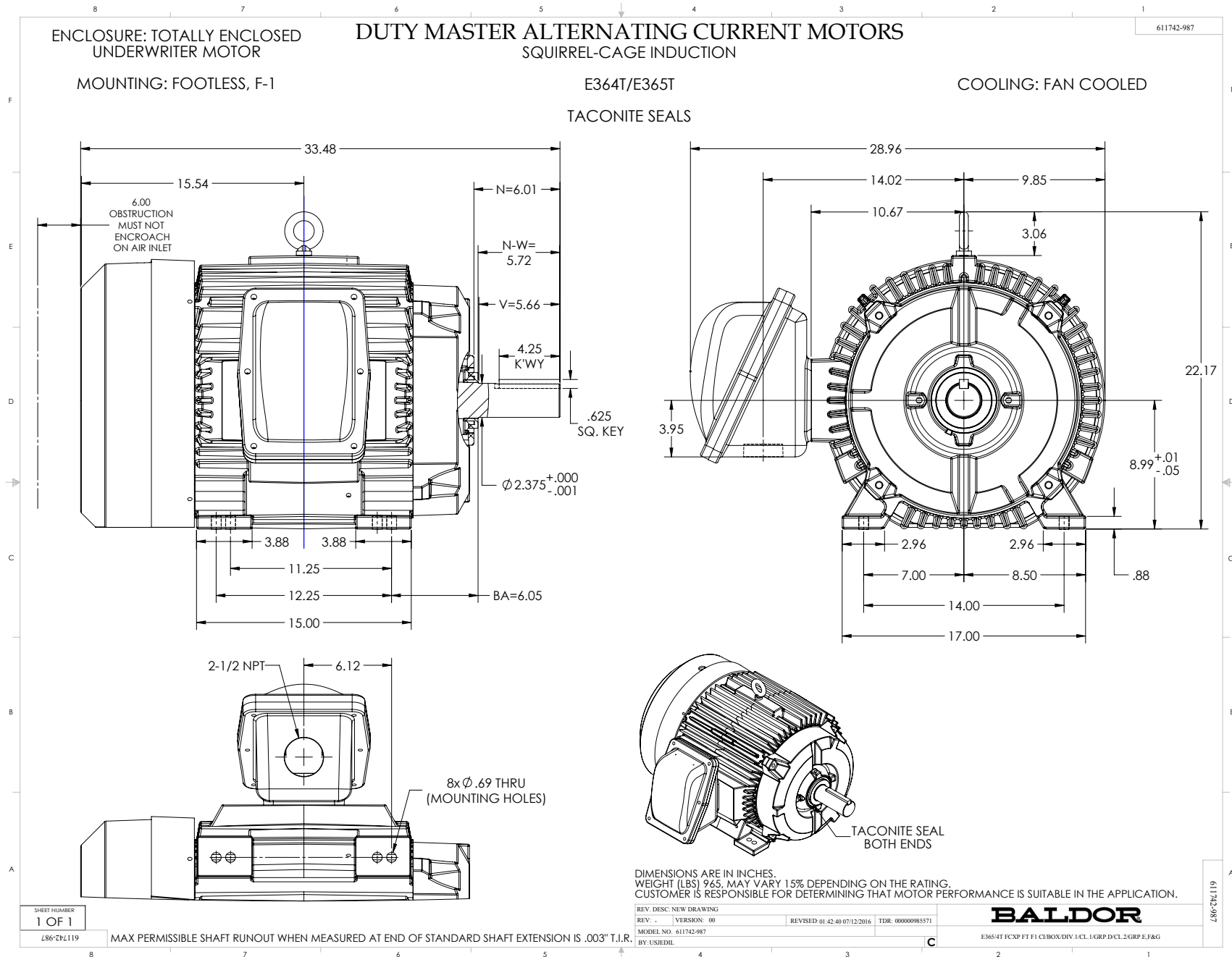


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PERFORMANCE
DATA

A36WG1194-R015

ISSUE DATE 01/24/25



CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS	_____ @ _____ ° C	
FIGURE NUMBER	_____	
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3. 0	30
220-240	1. 5	15
440-480	0. 75	7. 5
550-600	0. 60	6. 0

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1	FIGURE 4
FIGURE 2	FIGURE 5
FIGURE 3	FIGURE 6
FIGURE 7	FIGURE 8

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

BALDOR

A-C MOTOR CONNECTION ACCESSORIES

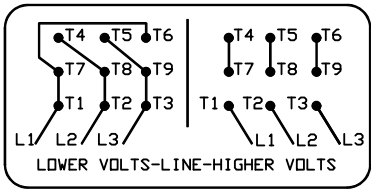
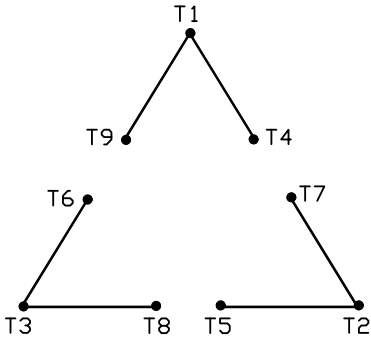
SH 1 of 1

418174-006

418174-006

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