

ABB BALDOR RELIANCE III

Customer information packet

CTM1767T

60HP, 1775RPM, 3PH, 60HZ, 364T, TEFC, FOOT,

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	15.000 HP @ 60 HZ 60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	69.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	24.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36052M

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0808
Layout	617438-427
Eff. date	09-27-2023
CD Diagram	416820-007
Poles	04/08
Leads	3#4,3#8
Proprietary	False
Created date	10-19-2010

Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	33.44 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
	885 rpm
Speed Code	2S-1W-VT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2295L											
SPEC NO.	P36G6574			CAT.NO.	CTM1767T			FRAME	364T		
HP		RPM		VOLTS		AMPS			HZ		TYPE PM
	60	1775		460		69.6		60	SF	1.15	
	15	885		460		24.1		60	INSUL.CLASS	F	
DRIVE END BEARING	65BC03JPP30A			DUTY	CONT	AMB	40				
OPP D.E. BEARING	65BC03JPP30A			ENCL	TEFC	DESIGN	B				
SER.NO.				CODE	H	PHASE	3				
	HIGH SPEED EFF: NOM=93.0, GUAR					=92.4					
	COOLING TOWER; IP-55 CONSTR					CAT:CTM1767T	MOTOR WEIGHT				

Parts List

Part number	Description	Quantity
SA207441	SA P36G6574	1.000 ea
RA194708	RA P36G6574	1.000 ea
NP2295L	BALDOR RELIANCE INDUSTRIAL MTR, SS, CSA	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078548001K	FAN KB 100/30 (70) 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
085922093AF	BRKT 360 085922072WCC	1.000 ea
415028001Y	SEAL - 360	1.000 ea
415045002E	SLGR	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
423709011C	WASHER	3.000 ea
415028001Y	SEAL - 360	1.000 ea
415045002E	SLGR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
423709011C	WASHER	3.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
410700004F	WSHR	1.000 ea
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea

085922093AF	BRKT 360 085922072WCC	1.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
406055001C	GRFTG - XP	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
067053000B	GASK 320-400	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025G05	WILKOFAST, 789.227, MED. GRAY CHAR. MET.	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
406055001C	GRFTG - XP	1.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
421948040	MYLAR DIAG 2 SPEED 1 WDG	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	60/15	PM	3/60	1775/885	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
69.6/24.1	CONT	40/F	1.15	B	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
591538	418141-31-TE	---	---	.132/.529		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0/ 0	25.9/ 15.5	1800/ 900	5.73/ 4.11	0/ 0	
1/4	15.0/ 3.76	30.6/ 16.1	1795/ 897	51.4/ 26.1	89.6/ 83.6	
2/4	30.0/ 7.51	41.3/ 17.9	1789/ 894	73.0/ 44.1	93.0/ 89.1	
3/4	45.0/ 11.2	54.5/ 20.6	1784/ 891	82.7/ 56.7	93.6/ 90.1	
4/4	60.0/ 15.0	69.6/ 24.1	1777/ 888	86.6/ 65.0	93.3/ 89.8	
5/4	74.9/ 18.8	85.9/ 28.2	1771/ 884	88.2/ 70.0	92.6/ 89.0	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0/ 0	180/ 149	319/ 132	522/ 115	
PULL UP		700/ 150	149/ 135	264/ 120	490/ 110	
BREAKDOWN		1668/ 840	283/ 215	501/ 190	298/ 69.0	
FULL LOAD		1777/ 888	100/ 100	177/ 88.7	69.6/ 24.1	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.0 PCT. ONE WINDING- VARIABLE TORQUE						
		DR. BY J.J.HARRISON CK. BY G.R.WEBB APP. BY W.L.SMITH DATE 06/06/02		A-C MOTOR PERFORMANCE A36WG0808-R001 DATA ISSUE DATE 01/07/11		

FRAME 364T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60/15

AMPS 69.6/24.1

CODE LETTER H

TEST DATE ---

TYPE PM

DUTY CONT

ENCLOSURE TEFC

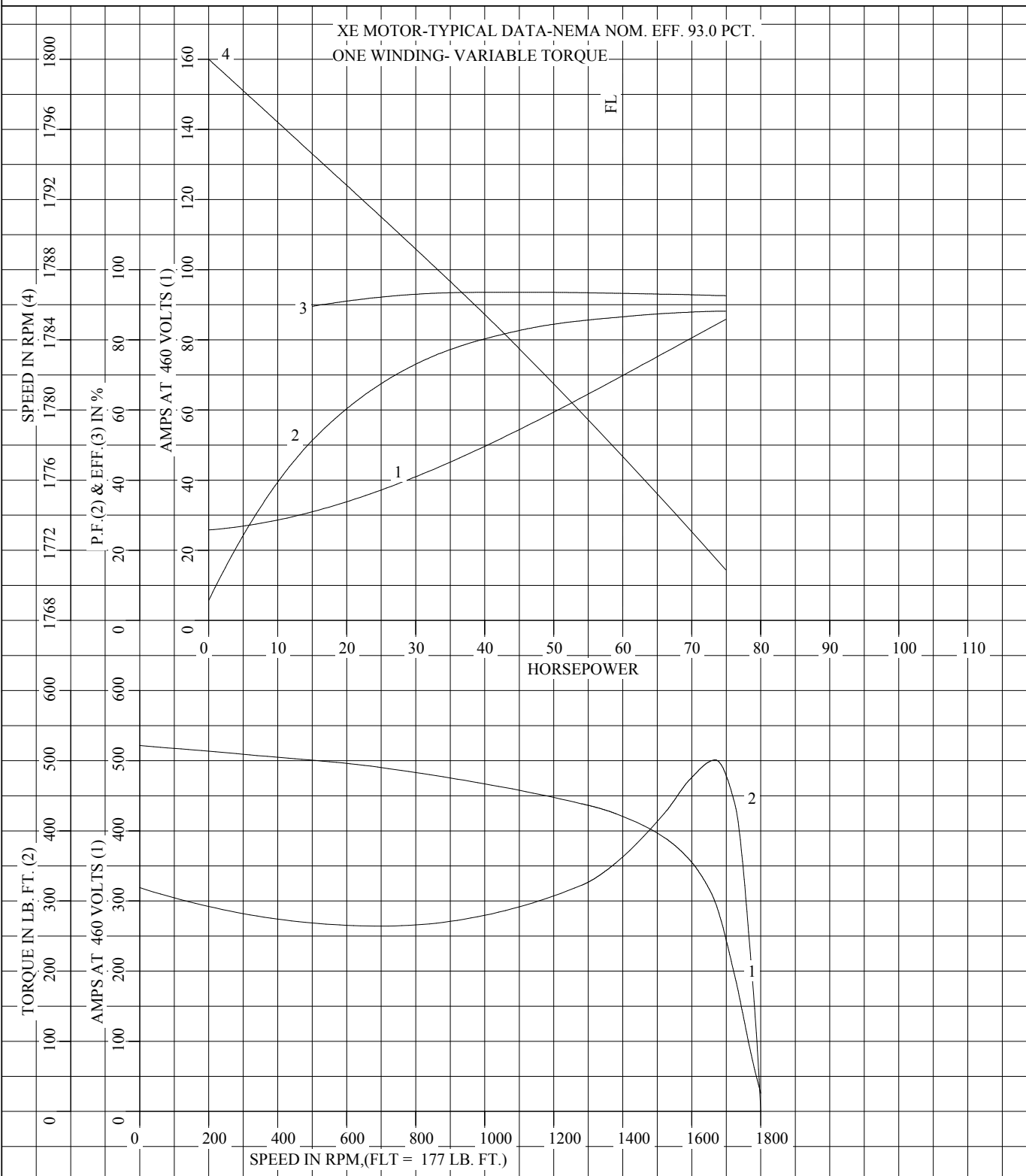
STATOR RES. @ 25 °C .132/.529

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 591538

OHMS (BETWEEN LINES)



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

BALDOR

DR. BY J.J.HARRISON
CK. BY G.R.WEBB
APP. BY W.L.SMITH
DATE 06/06/02

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0808-R001
SH 1 OF 2
ISSUE DATE 01/07/11

FRAME 364T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60/15

AMPS 69.6/24.1

CODE LETTER H

TEST DATE ---

TYPE PM

DUTY CONT

ENCLOSURE TEFC

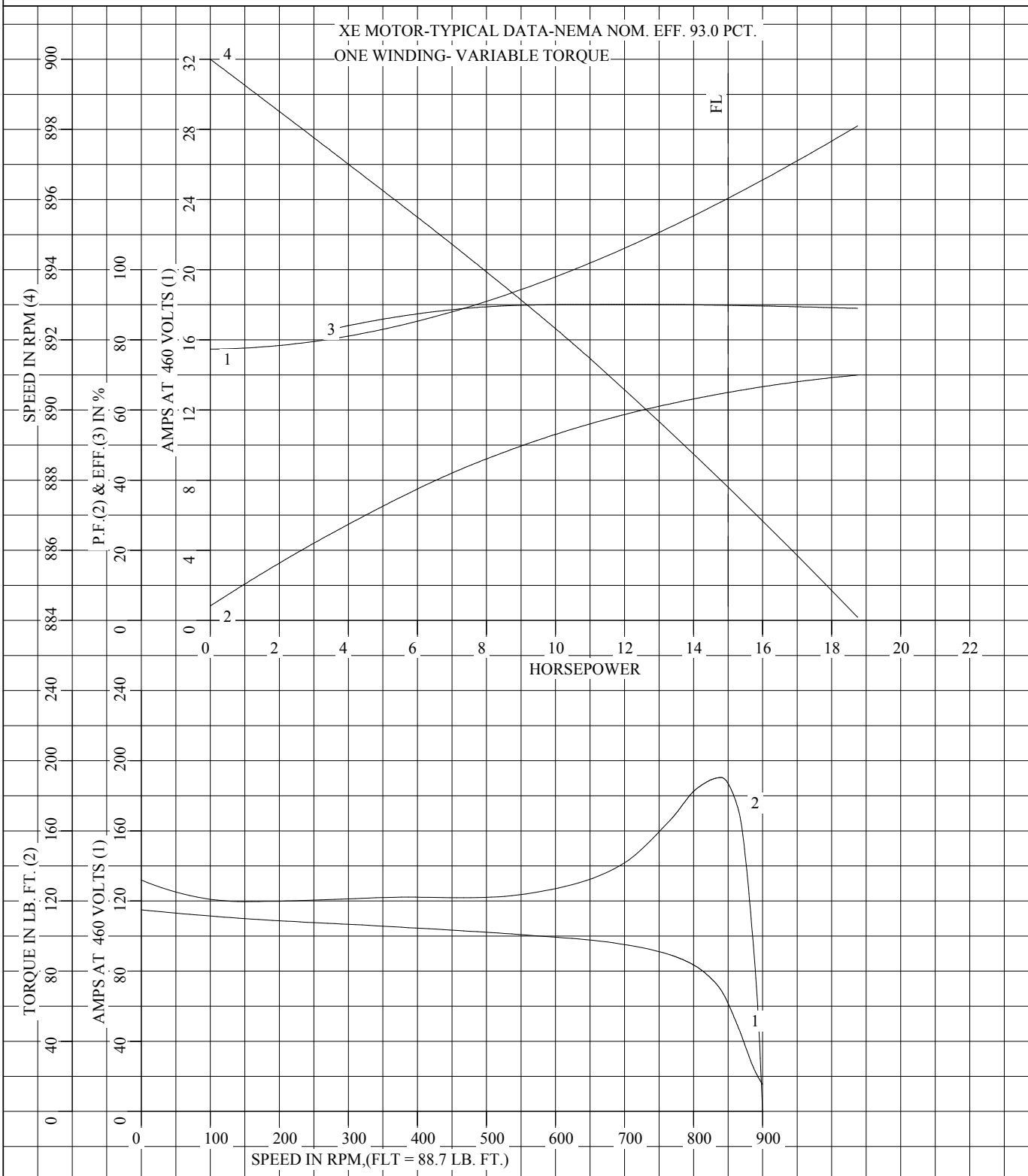
STATOR RES. @ 25 °C .132/.529

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 591538

OHMS (BETWEEN LINES)



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

BALDOR

 DR. BY J.J.HARRISON
 CK. BY G.R.WEBB
 APP. BY W.L.SMITH
 DATE 06/06/02

**A-C MOTOR
PERFORMANCE
CURVES**
A36WG0808-R001
 SH 2 OF 2
 ISSUE DATE 01/07/11

REL. S.O.

RPM 1775/885

S.F. 1.15

ROTOR 418141-31-TE

FRAME 364T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60/15

AMPS 69.6/24.1

CODE LETTER H

TEST DATE ---

TYPE PM

DUTY CONT

ENCLOSURE TEFC

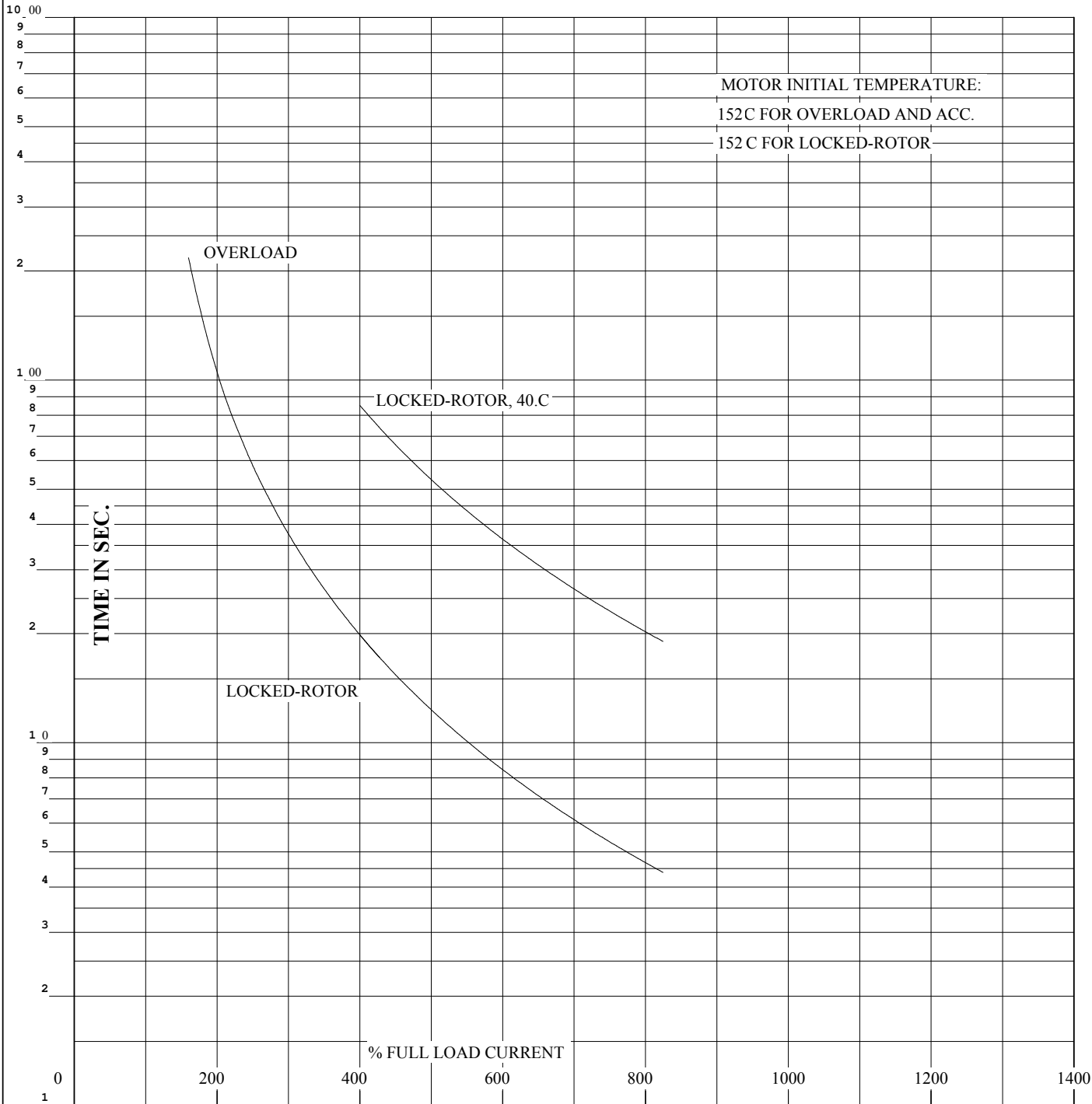
STATOR RES. @ 25 °C .132/.529

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 591538

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE - HIGH SPEED RATING

REMARKS:

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.0 PCT.

ONE WINDING- VARIABLE TORQUE

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

BALDOR

DR. BY J.J.HARRISON
CK. BY G.R.WEBB
APP. BY W.L.SMITH
DATE 06/06/02

A-C MOTOR PERFORMANCE CURVES

A36WG0808-R001

ISSUE DATE SH 1 OF 2
01/07/11

REL. S.O.

RPM 1775/885

S.F. 1.15

ROTOR 418141-31-TE

FRAME 364T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60/15

AMPS 69.6/24.1

CODE LETTER H

TEST DATE ---

TYPE PM

DUTY CONT

ENCLOSURE TEFC

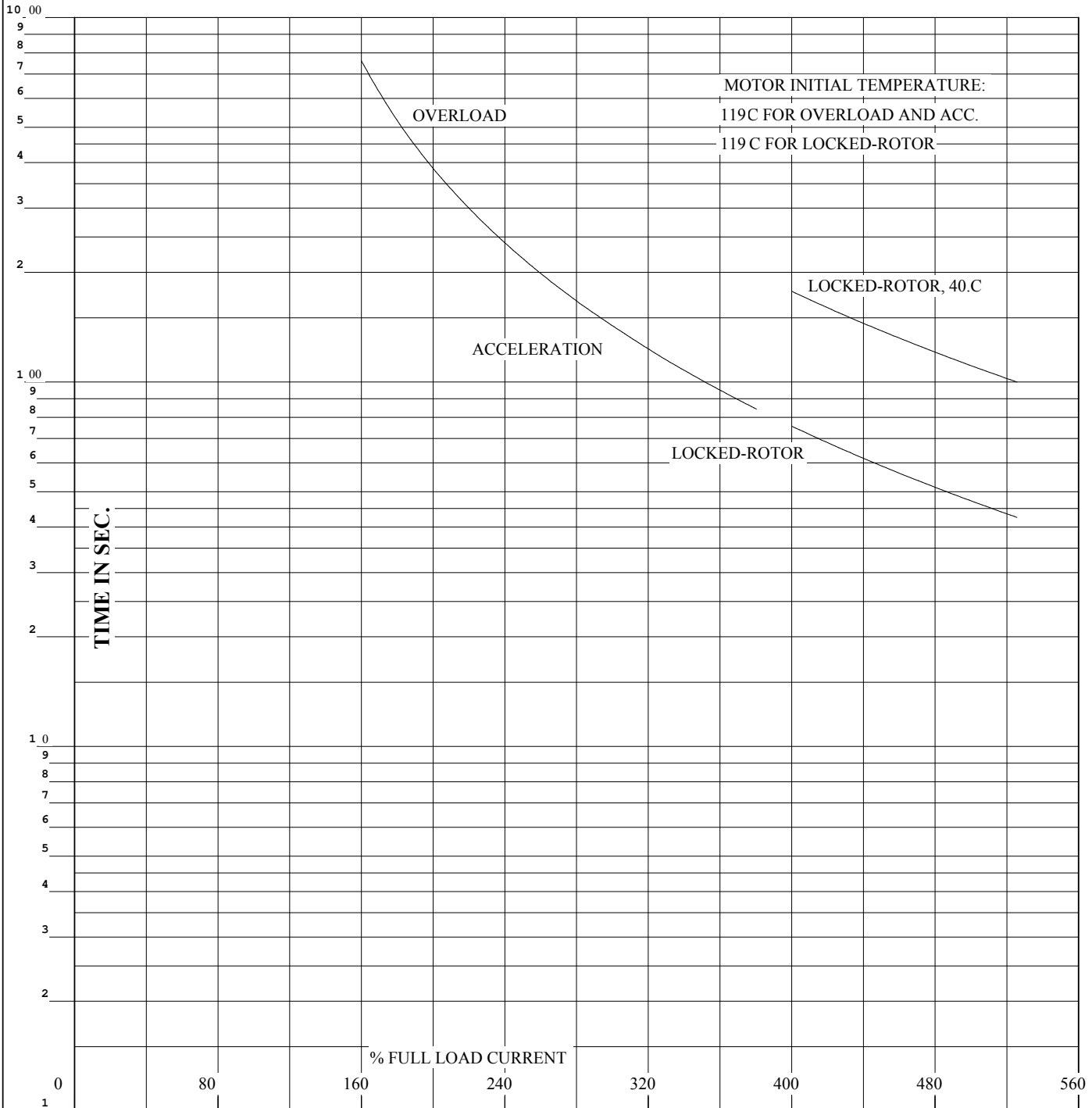
STATOR RES. @ 25 °C .132/.529

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 591538

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE - LOW SPEED RATING

REMARKS:

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.0 PCT.

ONE WINDING- VARIABLE TORQUE

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

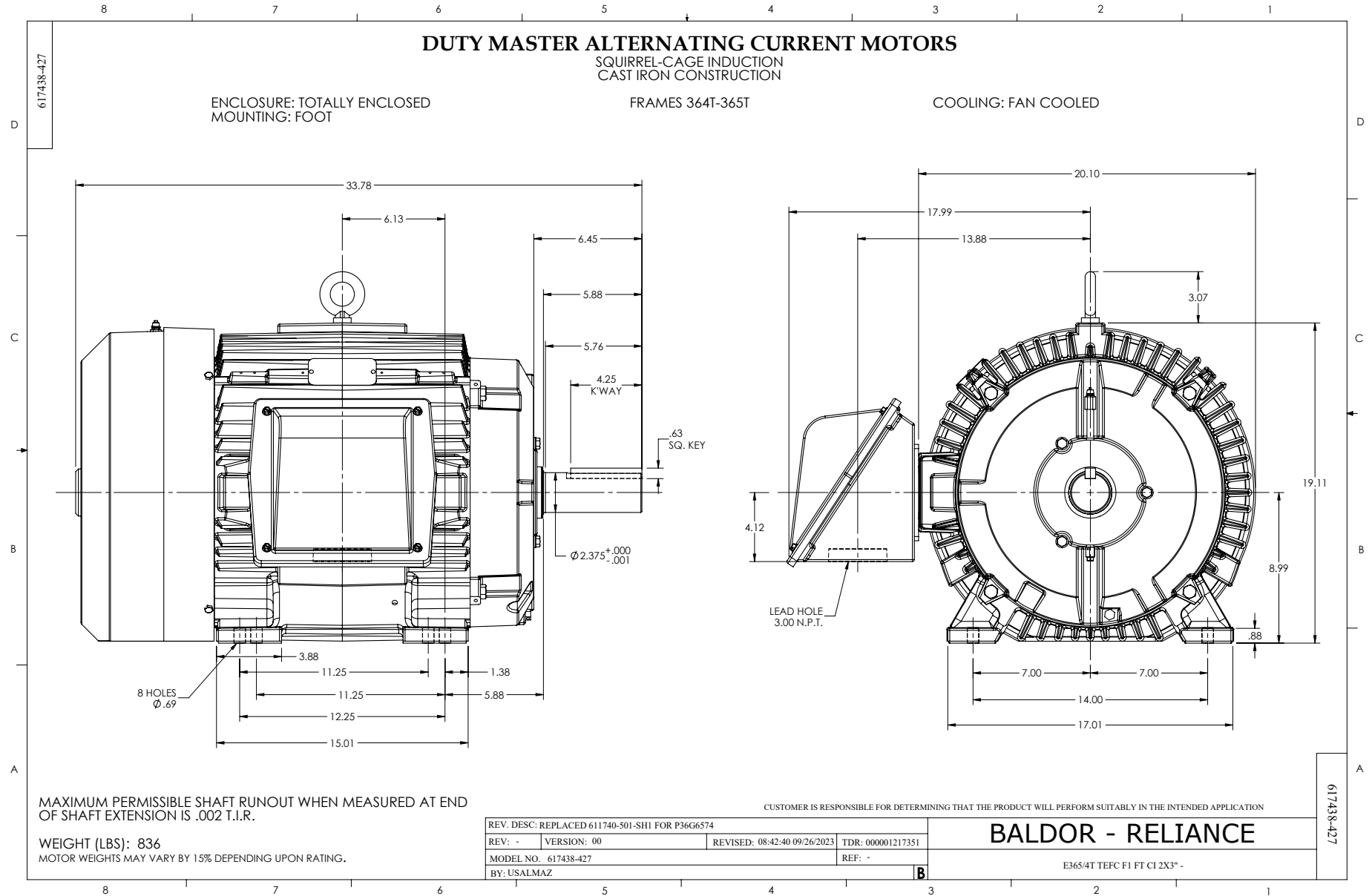
BALDOR

DR. BY J.J.HARRISON
CK. BY G.R.WEBB
APP. BY W.L.SMITH
DATE 06/06/02

**A-C MOTOR
PERFORMANCE
CURVES**

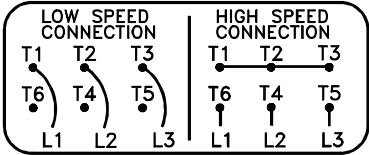
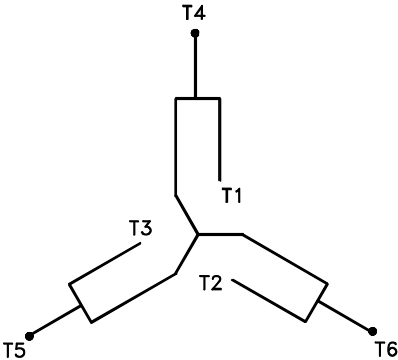
A36WG0808-R001

ISSUE DATE SH 2 OF 2
01/07/11



416820-007

A-C MOTOR
CONNECTION DIAGRAM
SINGLE WINDING MULTI-SPEEDS VARIABLE TORQUE



(N. P. 1634-DE)

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR	
REV. LTR: -	VERSION: 00	TDR: 000000538207		
FILE: \MGA\00000\663		REVISED: 10:52:22 04/30/2010	CONN DIAG - SINGLE WINDING - MULTI-SPEEDS - VARIABLE TORQUE	
MTL: -		BY: RAGRA	SH 1 of 1	

416820-007