

ABB BALDOR RELIANCE III

Customer information packet

CEWDM4338T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364TC
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	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	80.000 A @ 230.0 V 40.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	40.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0229
Layout	617428-348
Eff. date	09-10-2021
CD Diagram	416820-002
Poles	08
Leads	3#6,6#8
Proprietary	False
Created date	08-22-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36050M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.48 IN
Power Factor	76
Product Family	Washdown Features
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.374 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	

NP2428L

SPEC NO.	A36-7775-0229			CAT.NO.	CEWDM4338T					FRAME	364TC	
HP	30	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	890	AMPS	80/40		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		76	NEMA-NOM-EFFICIENCY					91.7
						MAX CORR KVAR		10	GUARANTEED EFFICIENCY		90.2	
	IP55					NEMA NOM/CSA QUOTED EFF						
	10:1CT AND 10:1VT ON VPWM INVE					RTER, 1.00SF			MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364TC	30	P	3/60	890	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
80/40	CONT	40/F	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	4.97	0	
1/4	7.52	21.6	897	37.5	86.9	
2/4	15.0	26.0	895	59.1	91.5	
3/4	22.5	32.4	892	70.3	92.4	
4/4	30.0	40.0	889	76.2	92.2	
5/4	37.5	48.7	885	78.8	91.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	137	242	212	
PULL UP		213	128	227	200	
BREAKDOWN		844	228	405	119	
FULL LOAD		889	100	177	40.0	
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 - NEMA NOM. EFF. 91.7 %						
		DR. BY	E. J. CHRISTIAN	A-C MOTOR PERFORMANCE DATA		
		CK. BY	E. J. CHRISTIAN			
		APP. BY	J. P. TSAO			
		DATE	04/07/15			
				A36WG0229-R004 ISSUE DATE 08/22/19		

REL S.O.

 RPM **890**

 S.F. **1.15**

 ROTOR **418141-73-AE**

 FRAME **364TC**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **30**

 AMPS **80/40**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

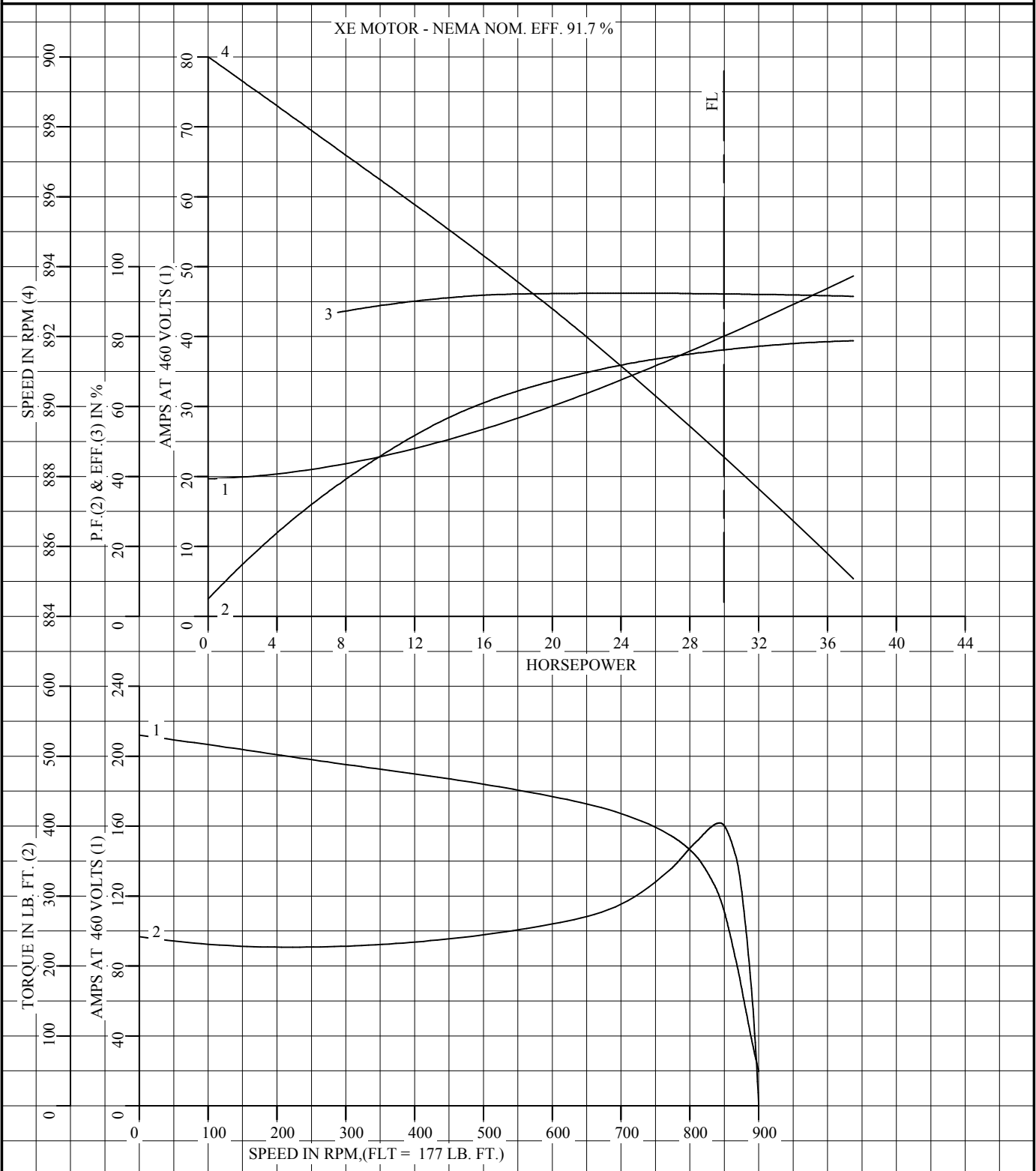
 STATOR RES. @ 25 °C **.0676/.270**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **591745**

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
A MEMBER OF THE ABB GROUP

DR. BY EJCHRISTIAN
CK. BY EJCHRISTIAN
APP. BY J.P.TSAO
DATE 04/07/15

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0229-R004

ISSUE DATE 08/22/19

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REL. S.O.

 RPM **890**

 S.F. **1.15**

 ROTOR **418141-73-AE**

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 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

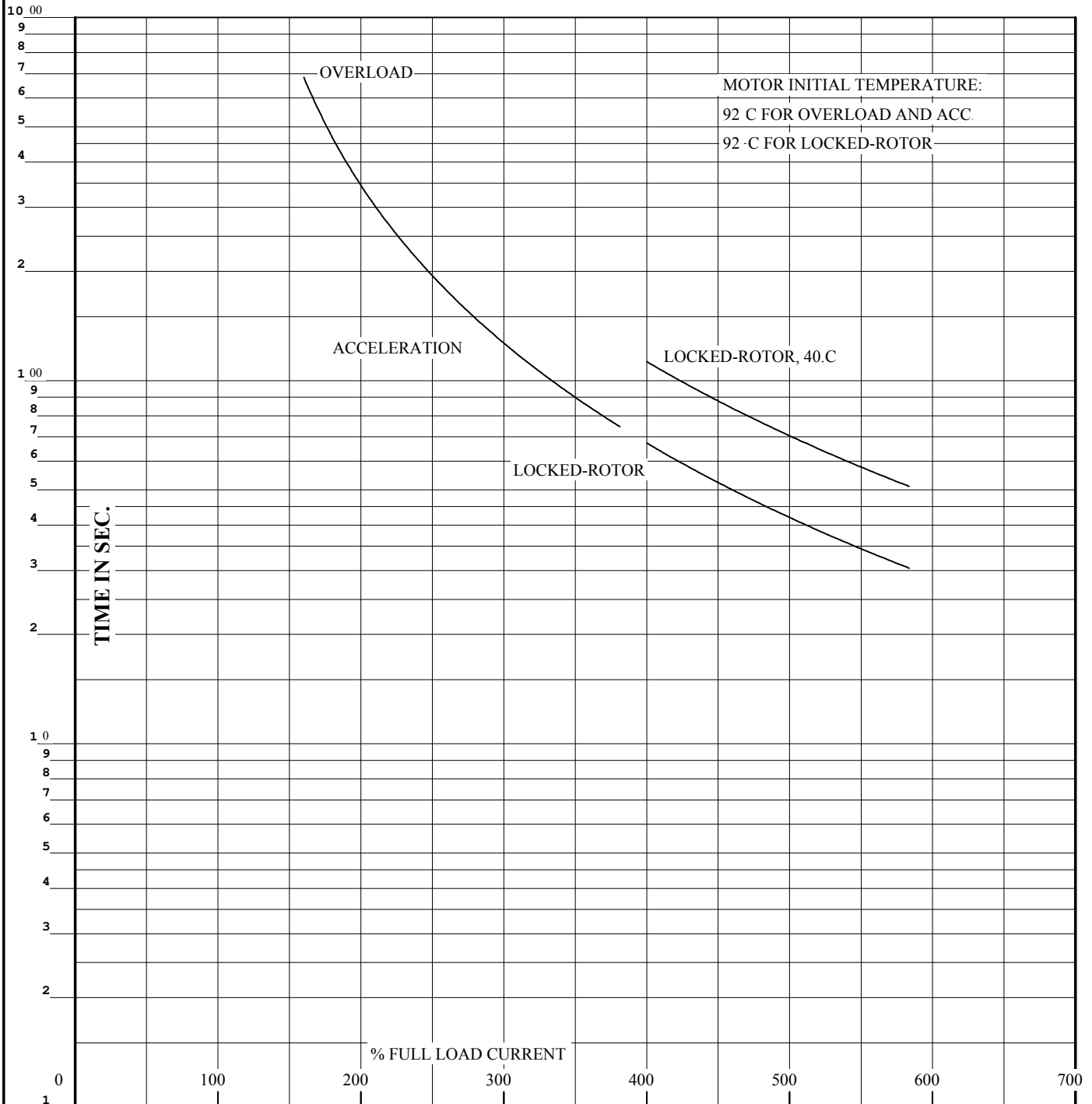
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 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **591745**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

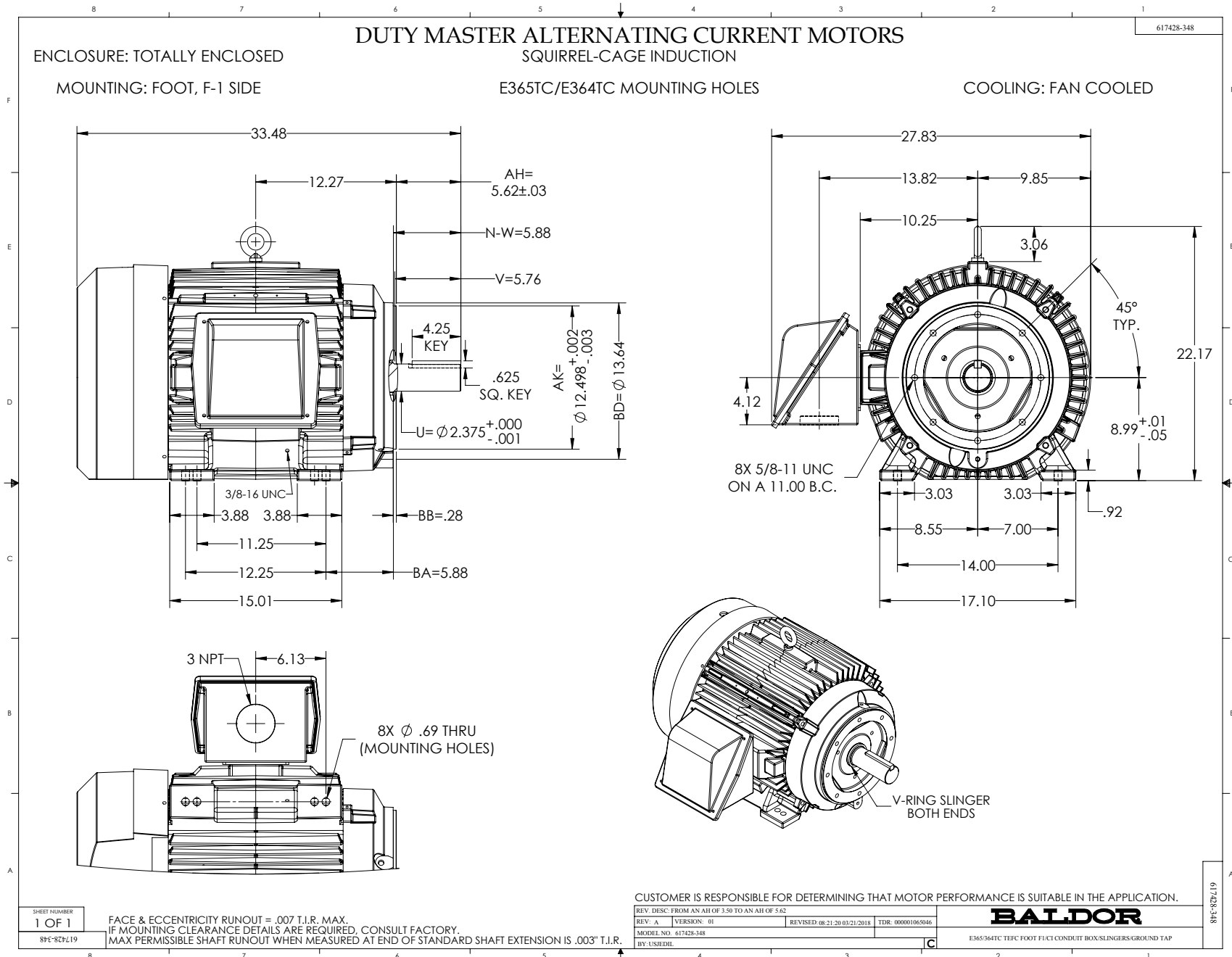
XE MOTOR - NEMA NOM. EFF. 91.7 %

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BALDOR
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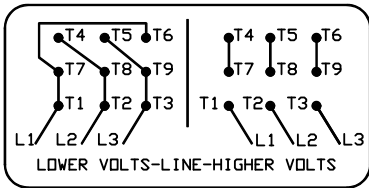
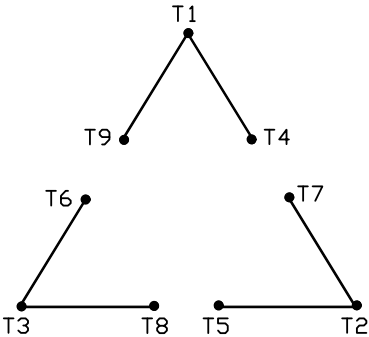
 DR. BY E.J. CHRISTIAN
 CK. BY E.J. CHRISTIAN
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 DATE 04/07/15
**A-C MOTOR
PERFORMANCE
CURVES**
A36WG0229-R004

 ISSUE DATE 08/22/19 Page 8 of 10



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