

ABB BALDOR RELIANCE III

Customer information packet

CEWDM4348T

40HP, 890RPM, 3PH, 60HZ, 365TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365TC
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	40.000 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	53.000 A @ 460.0 V 106.000 A @ 230.0 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	53.0 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.	A36WG0308
Layout	617428-348
Eff. date	09-13-2021
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	A36062M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.48 IN
Power Factor	77
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.	A36-6685-0308			CAT.NO.	CEWDM4348T				FRAME	365TC	
HP	40	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	890	AMPS	106/53		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	77	NEMA-NOM-EFFICIENCY			91.7		
						MAX CORR KVAR	15	GUARANTEED EFFICIENCY		90.2	
	IP55					NEMA NOM/CSA QUOTED EFF					
	10:1CT AND 10:1VT ON VPWM INVE					RTER, 1.00SF			MOTOR WEIGHT		920

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TC	40	P	3/60	890	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
106/53	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
492342	418141073EE	---	---	.0486/.194		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	25.7	900	5.13	0	
1/4	10.0	28.3	897	38.2	86.8	
2/4	20.0	34.3	895	59.7	91.5	
3/4	30.0	42.9	892	70.8	92.4	
4/4	40.0	53.0	888	76.6	92.2	
5/4	50.0	64.6	885	79.1	91.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	140	330	282	
PULL UP		225	122	289	265	
BREAKDOWN		845	224	529	157	
FULL LOAD		888	100	236	53.0	
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-TYPICAL DATA-NEMA NOM. EFF. 91.7%						
		DR. BY C.E. JAMISON		A-C MOTOR PERFORMANCE DATA A36WG0308-R005 ISSUE DATE 08/22/19		
		CK. BY W.L. SMITH				
		APP. BY C.E. JAMISON				
		DATE 01/19/18				

REL S.O.

 RPM **890**

 S.F. **1.15**

 ROTOR **418141073EE**

 FRAME **365TC**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **40**

 AMPS **106/53**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

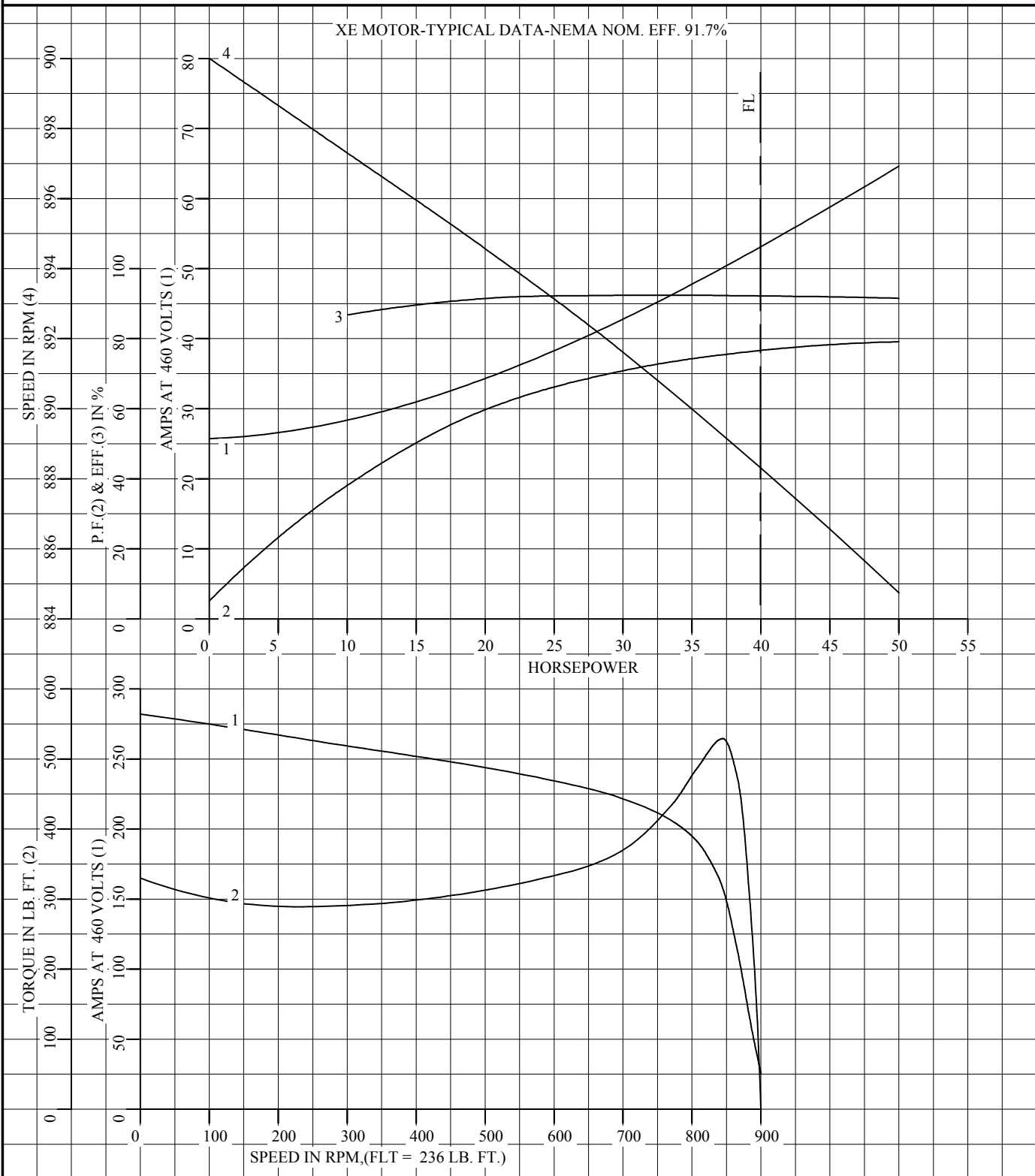
 STATOR RES. @ 25 °C **.0486/.194**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **492342**

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 C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E. JAMISON
DATE 01/19/18

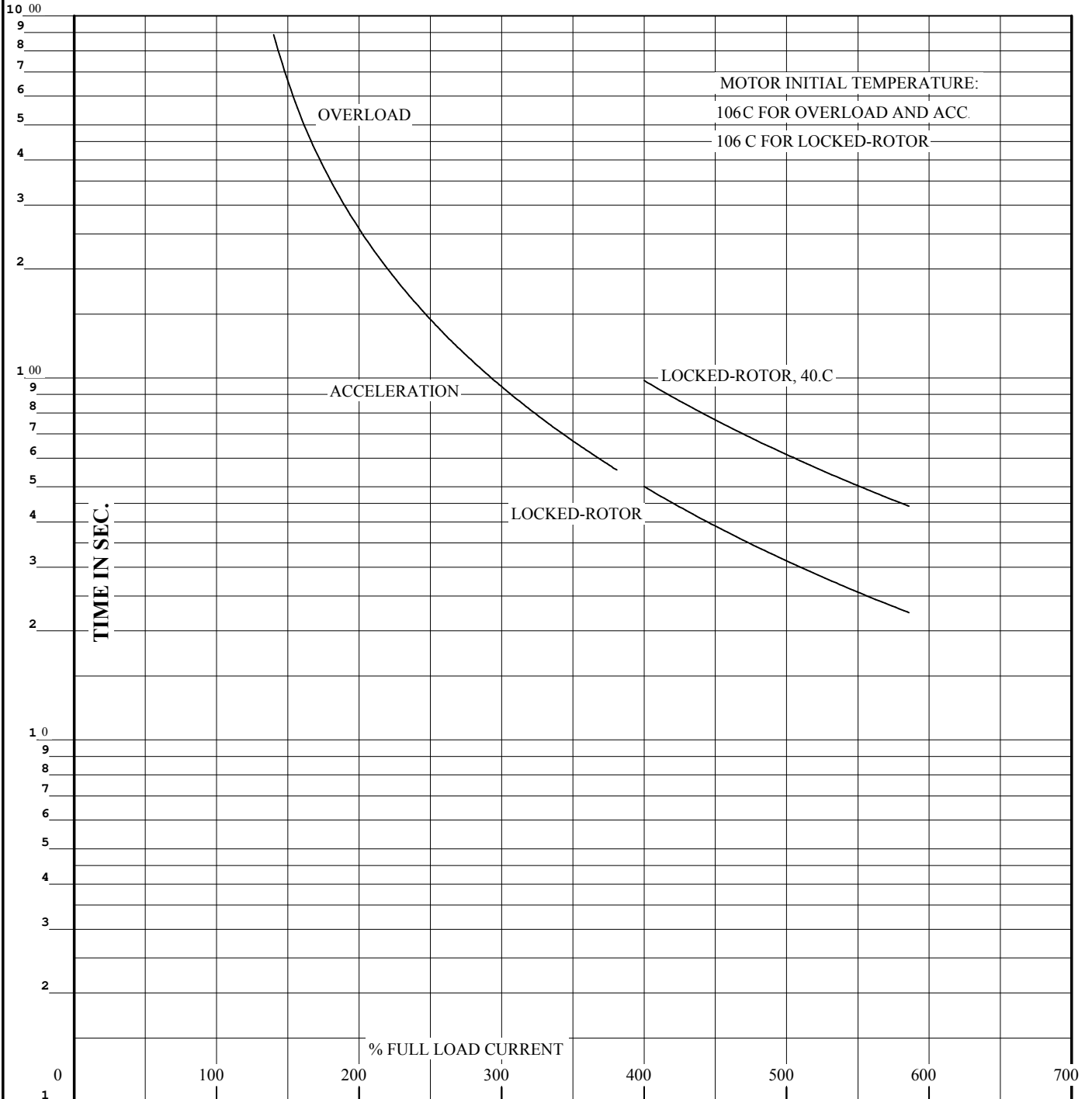
**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0308-R005

ISSUE DATE **08/22/19**

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REL. S.O.	RPM 890	S.F. 1.15	ROTOR 418141073EE
FRAME 365TC	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 40	AMPS 106/53	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0486/.194
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 492342	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 91.7%

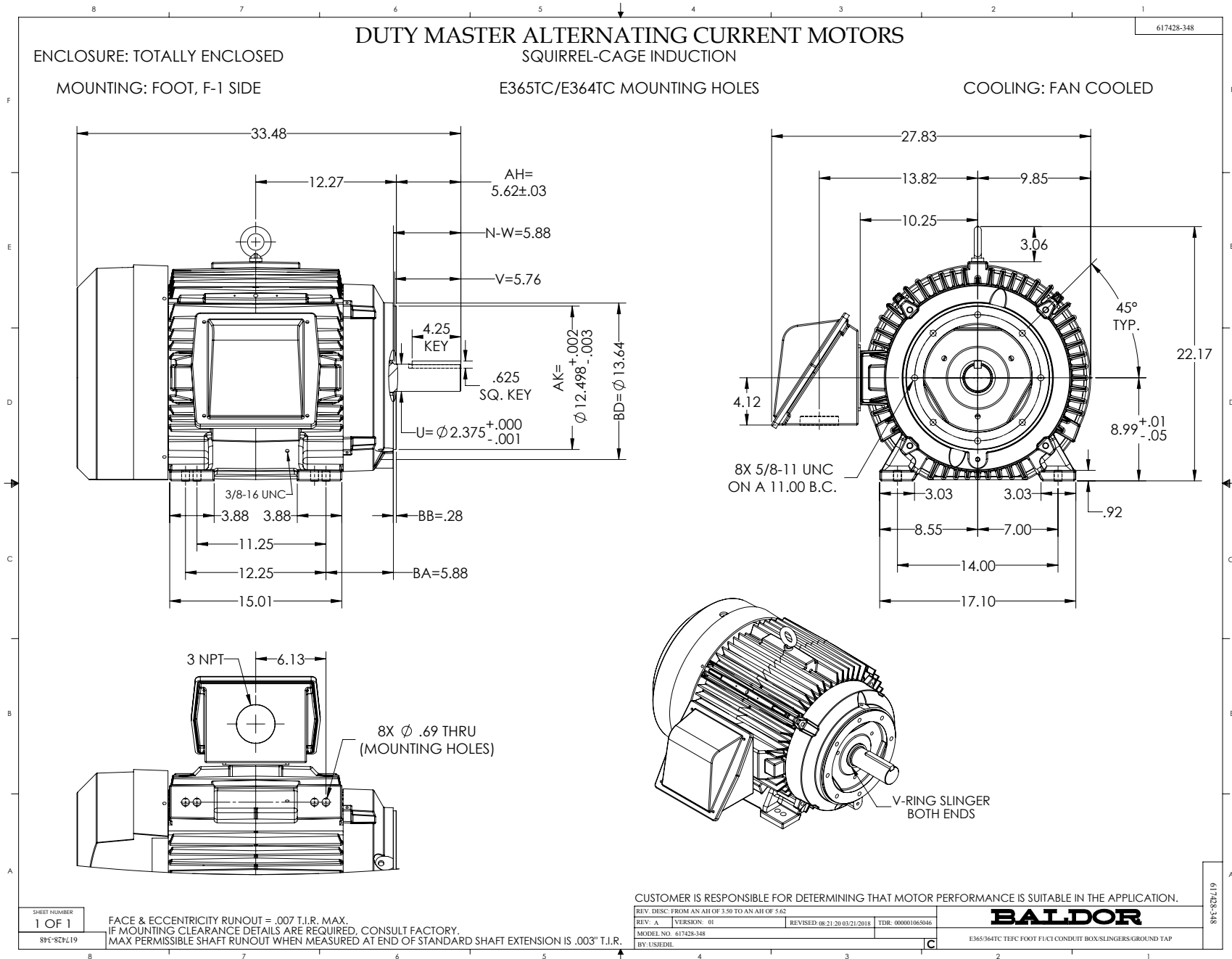
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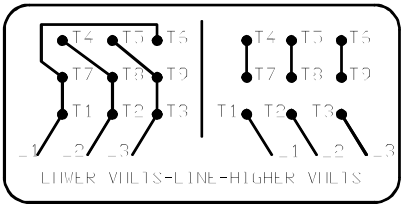
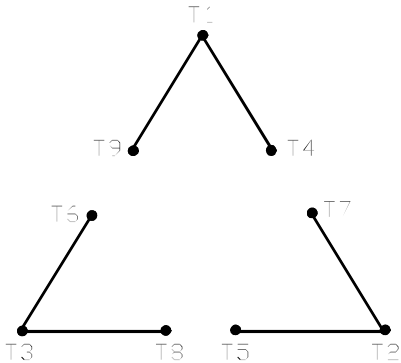
**A-C MOTOR
PERFORMANCE
CURVES**

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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)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002